Baseline Water Quality Data

Inventory and Analysis

Niobrara National Scenic Riverway



Water Resources Division and Servicewide Inventory and Monitoring Program

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National Park Service - Department of the Interior
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BASELINE WATER QUALITY DATA

INVENTORY AND ANALYSIS

NIOBRARA NATIONAL SCENIC RIVERWAY

National Park Service
Water Resources Division
Fort Collins, CO 80525

Technical Report NPS/NRWRD/NRTR-95/60

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United States Department of the Interior
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EXECUTIVE SUMMARY

This document presents the results of surface-water-quality data retrievals for Niobrara National Scenic Riverway[†] (NIOB) 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) Flow Gages (GAGES); and (6) Water Impoundments (DAMS). This document is one product resulting from a cooperative contractual endeavor between the National Park Service's Servicewide Inventory and Monitoring Program, the National Park Service's Water Resources Division (WRD), and Horizon Systems Corporation to retrieve, format, and analyze 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 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 one industrial discharger, no drinking water intakes, nine active or inactive U. S. Geological Survey (USGS) gaging stations, and five water impoundments. The results of the STORET retrieval for the study area yielded 40,781 observations for 281 separate parameters collected by the USGS, EPA, and the Nebraska Department of Environmental Control at 50 monitoring stations. Of the 50 monitoring stations, 11 did not have data appropriate for statistical analysis and one was used only for monitoring fish tissue (NIOB 0050). Ten stations were located within the park boundary. Most of the sampling stations represent either one-time or intensive single-year sampling efforts by the collecting agencies. Eighteen stations within the study area yielded longer-term records consisting of multiple observations for several important water quality parameters. Five stations yielding longer-term records within the park are: (1) Niobrara River at Mariaville, NE (NIOB 0002); (2) Niobrara River at Norden (NIOB 0027); (3) Niobrara River Nr Norden Nebr (NIOB 0028); (4) Niobrara River at Sparks (NIOB 0031); and (5) Niobrara River Near Sparks, Nebr. (NIOB 0032)[††]. Thirteen stations yielding longer-term records within the study area, but outside of the park boundary are: (1) Niobrara River S of Riverview (NIOB 0005); (2) Long Pine Creek at Riverview (NIOB 0008); (3) Long Pine Creek Blw Cnfl Bone Cr (NIOB 0010); (4) Long Pine Creek (NIOB 0012); (5) Long Pine Creek (NIOB 0015); (6) Long Pine Creek Near Riverview, Nebr. (NIOB 0016); (7) Bone Creek Blw Cnfl Sand Draw (NIOB 0018); (8) Bone Creek Near Long Pine, Nebr (NIOB 0021); (9) Niobrara River at Meadville, NE (NIOB 0022); (10) Plum Creek at Meadville (NIOB 0024); (11) Plum Creek at Meadville, NE (NIOB 0025); (12) Minnechaduza Creek at Valentine (NIOB 0035); and (13) Niobrara R at Valentine SE (NIOB 0041).

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

[†]The Niobrara National Scenic Riverway is part of the Niobrara/Missouri National Scenic Riverways. This report covers only the 40-mile segment of the Niobrara from Borman Bridge to its confluence with Chimney Creek and the 30-mile segment of the Niobrara from its confluence with Rock Creek to the State Highway 137 bridge. A separate report covering the 25-mile segment of the Niobrara from the western boundary of Knox County to its confluence with the Missouri River and the Missouri National Recreational River will be issued at a later date.

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

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 NIOB water quality criteria screen found eight parameters that exceeded screening criteria at least once within the study area. Copper and pH exceeded their respective EPA acute or chronic criteria for the protection of freshwater aquatic life. Fluoride, beryllium, and lead exceeded their respective EPA drinking water criteria. Bacteria concentrations (fecal coliform and *E. coli)* and turbidity exceeded the WRD screening limits for freshwater bathing and aquatic life, respectively.

The pH was measured 2,020 times at 35 monitoring stations throughout the study area from 1948 through 1993. Of the 1,927 observations used in the criteria analysis (see Composite Type Screen, Media Type Screen, and Remark Code Screen in the Methodology for explanation), 25 observations in the Niobrara River (NIOB 0005, NIOB 0031, NIOB 0032), Long Pine Creek (NIOB 0010, NIOB 0013, NIOB 0014), Bone Creek below the confluence with Sand Draw (NIOB 0019), and Minnechaduza Creek at Valentine (NIOB 0035) were outside the pH range of 6.5 to 9.0 standard units (su) (EPA chronic criteria for freshwater aquatic life). Eight observations were greater than or equal to pH 9.0, and 17 observations were less than or equal to pH 6.5. The highest reported pH was 9.3 su at two stations in the Niobrara River at or near Sparks, Nebraska (NIOB 0031, NIOB 0032) in 1984. The lowest pH was 5.8 su in Long Pine Creek (NIOB 0013) in June 1983. A time-series plot of pH values recorded in Long Pine Creek near Riverview, Nebraska (NIOB 0016) shows generally increasing pH during the period from 1978 through 1993.

Turbidity was measured 307 times at 22 monitoring stations from 1968 through 1977. Of the 217 observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation), 12 observations in the Niobrara River (NIOB 0005, NIOB 0027, NIOB 0031, NIOB 0041), Long Pine Creek at Riverview (NIOB 0008), and Plum Creek at Meadville (NIOB 0024) exceeded the WRD screening criterion of 50 JTU/FTU.

Fecal coliform concentrations were determined 652 times at 25 stations from 1973 through 1993. Of the 643 observations used in the criteria analysis (see Remark Code Screen in the Methodology, and EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), 207 observations at 19 stations throughout the study area exceeded the 200 CFU per 100 ml WRD screening criterion. Almost 66 percent of the observations exceeding the criterion were recorded at five stations (NIOB 0005, NIOB 0010, NIOB 0015, NIOB 0018, NIOB 0031). *E. coli* concentrations were determined 83 times at three monitoring stations from 1987 through 1989. Seventeen observations in the Niobrara River (NIOB 0005, NIOB 0031) and Long Pine Creek below the confluence with Bone Creek (NIOB 0010) exceeded the freshwater bathing criterion of 126 CFU per 100 ml.

Dissolved fluoride concentrations were measured 623 times at 14 monitoring stations from 1948 through 1993. Two concentrations of 4.0 mg/L and 26.0 mg/L in the Niobrara River at Norden (NIOB 0027) and Long Pine Creek at Riverview (NIOB 0008), respectively, equaled or exceeded the drinking water criterion of 4.0 mg/L in December 1973.

Beryllium concentrations (including dissolved and total) were measured 22 times at three monitoring stations from 1964 through 1989. One total concentration of 10.0 µg/L in the Niobrara River at Mariaville, Nebraska (NIOB 0002) exceeded the drinking water criterion of 4.0 µg/L in March 1986.

Copper concentrations (including dissolved and total) were measured 40 times at 13 monitoring stations from 1964 through 1991. Of the 35 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), three concentrations ranging from 18 µg/L to 40 µg/L equaled or exceeded the acute freshwater criterion of 18 µg/L at three stations (NIOB 0002, NIOB 0028, NIOB 0038).

Lead concentrations (including dissolved and total) were measured 24 times at five monitoring stations from 1964 through 1991. Two concentrations of 16 µg/L and 27 µg/L in the Niobrara River at Mariaville (NIOB 0002) and Norden (NIOB 0028), respectively, exceeded the drinking water action level of 15 µg/L.

The IDEA conducted for NIOB indicates that some STORET data exist for all Level I parameter groups in the park except chlorophyll. Most of the retrieved data were collected before 1985. Results for 23 of the 127 EPA priority toxic pollutants (consisting of inorganic parameters and pesticides) were retrieved from STORET. The pesticide data were from the Niobrara River at Mariaville, Nebraska (NIOB 0002).

The primary surface water resource in the NIOB study area includes two segments of the Niobrara River designated as scenic by the Niobrara Scenic River Designation Act of 1991. The data inventories and analyses contained in this report indicate that surface waters within the study area are generally of good quality with some impacts from human activities. Potential sources of contaminants include recreation and agriculture.

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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.

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.

Julie Mattick and Scott Hermsen helped prepare the report and write the Executive Summary.

Joe Gregson and Scott Grover provided digital cartographic support, both in determining retrieval/query areas and producing graphics.

Ken Akerman uploaded water quality data to STORET prior to report preparation.

Jacquie Nolan designed the cover and provided publications support.

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.

Vickie Baitinger served as the Production Technician and was responsible for executing the software and procedures to produce the park unit chapters.

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.

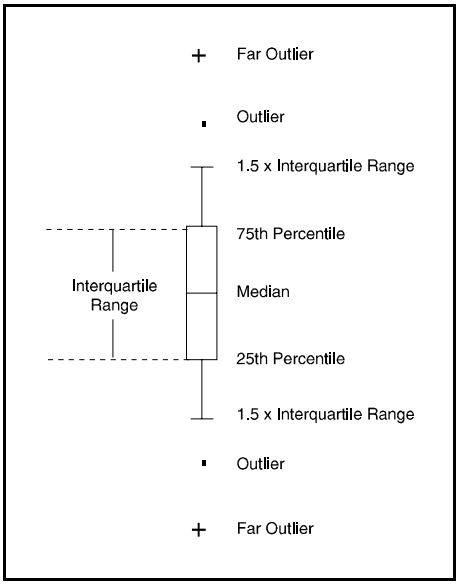
Table H. Definition of Descriptive Statistics Contained in Inventory, Annual, and Seasonal Tables

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 NIOB[1]

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:	368147	27091
# STORET Stations:	50	10
# Stations With No Data:	1	0
# Stations With No Stat. Analysis:	11	3
# Longer Term Stations:	18	5
Date of STORET Retrieval:	06/07/95	06/07/95
Period of Record:	06/09/47-09/21/94	06/09/47-09/09/93
# Parameters Measured:	281	244
# Water Quality Observations:	40781	16847
# Industrial/Municipal Facilities:	1	0
# Drinking Water Intakes:	0	0
# Water Gages:	9	3
# Water Impoundments:	5	0
# Total Plots:	128	69
# Time Series:	32	22
# Annual:	51	24
# Seasonal:	45	23

Hydrologic Definition of Seasons:

1. August 1 - January 14
2. January 15 - March 9
3. March 10 - July 31

Time Series Plot Criteria:

To be included in the time series plots, a station/parameter combination must have at least 22 years and at least 136 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 12 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:

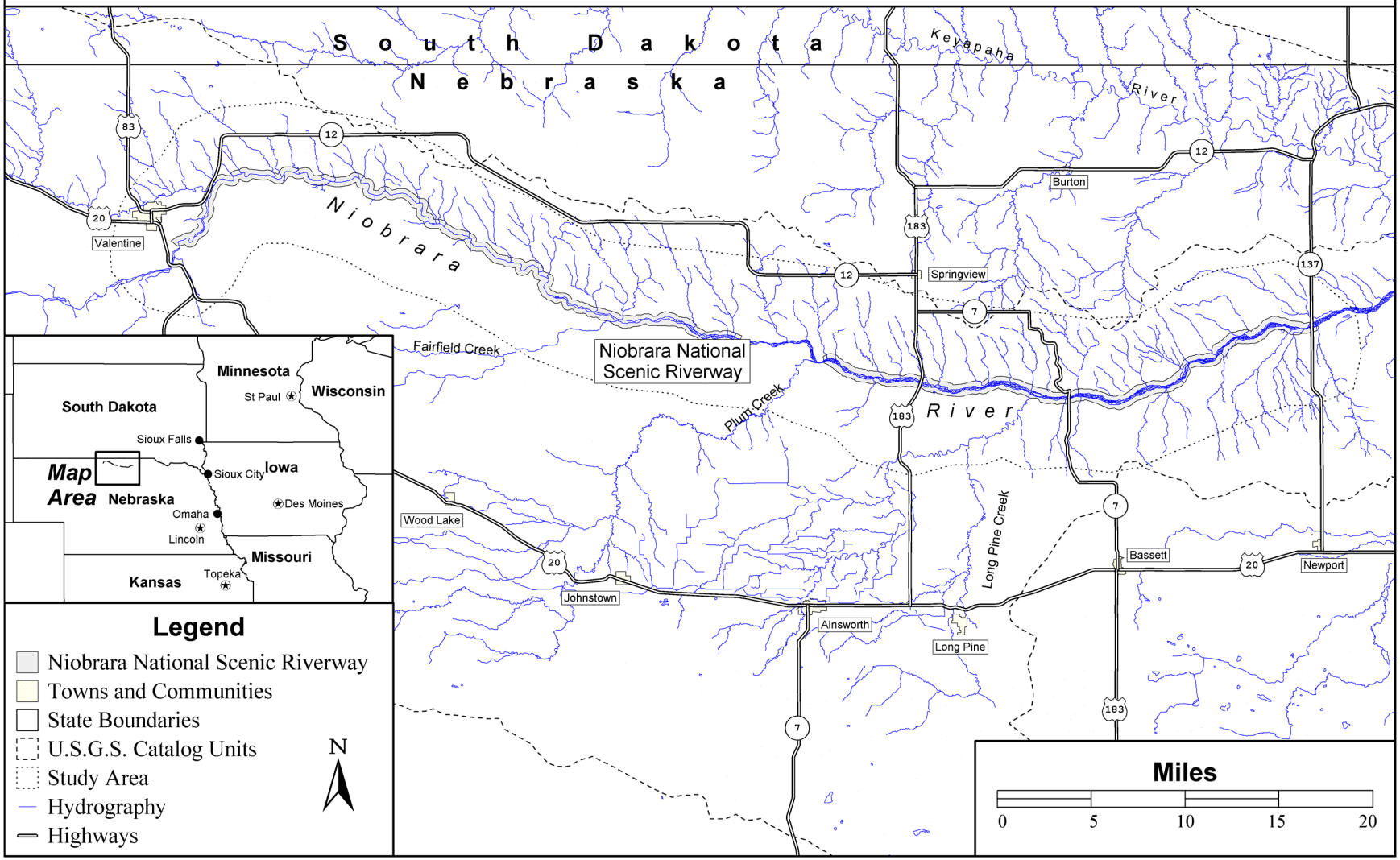
To be included in the seasonal box-and-whisker plots, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 22 years and observations in at least 4 of the 22 years.

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.

[1]To prepare a Microsoft Word version of this report, data were reprocessed 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).

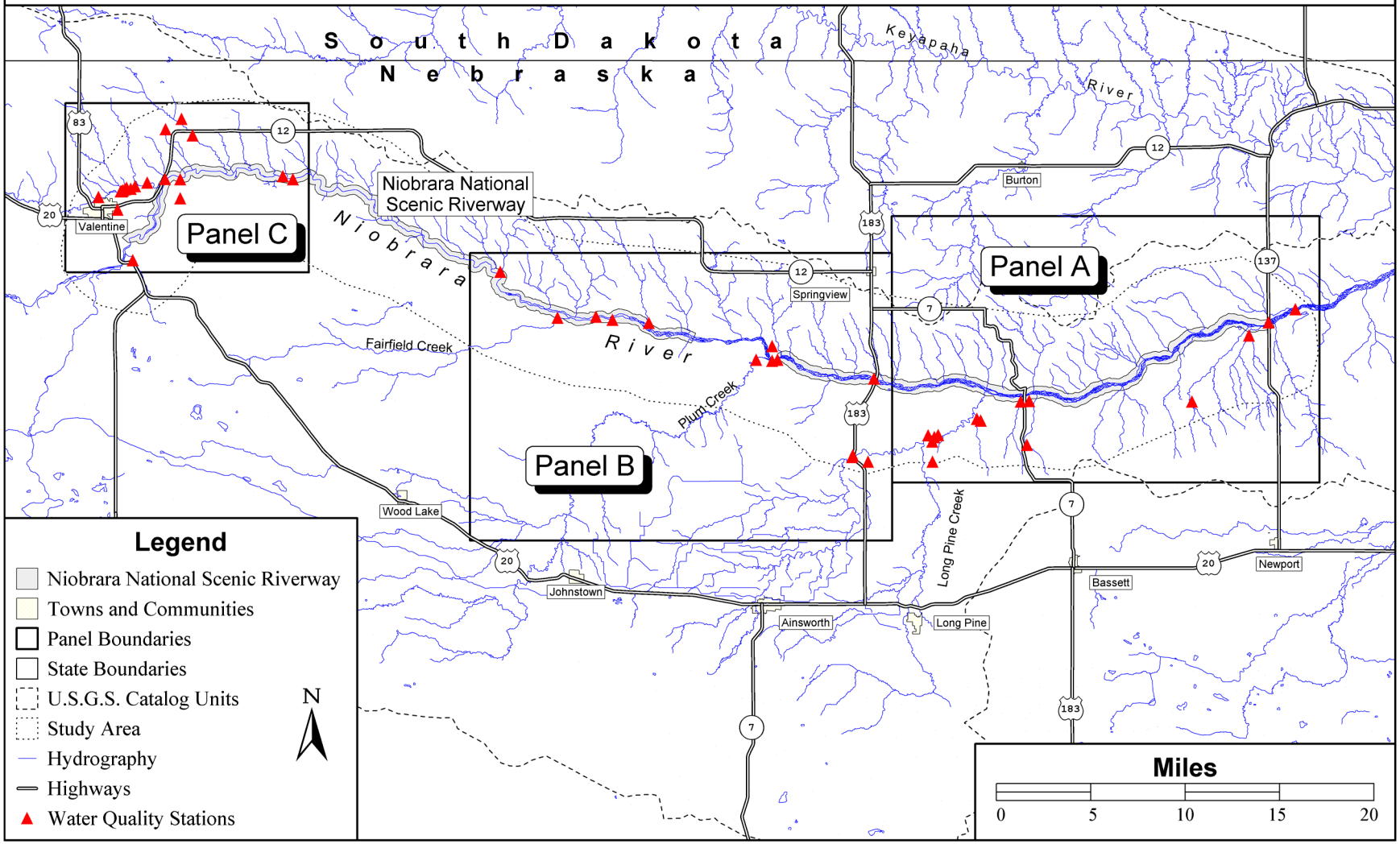
Niobrara National Scenic Riverway

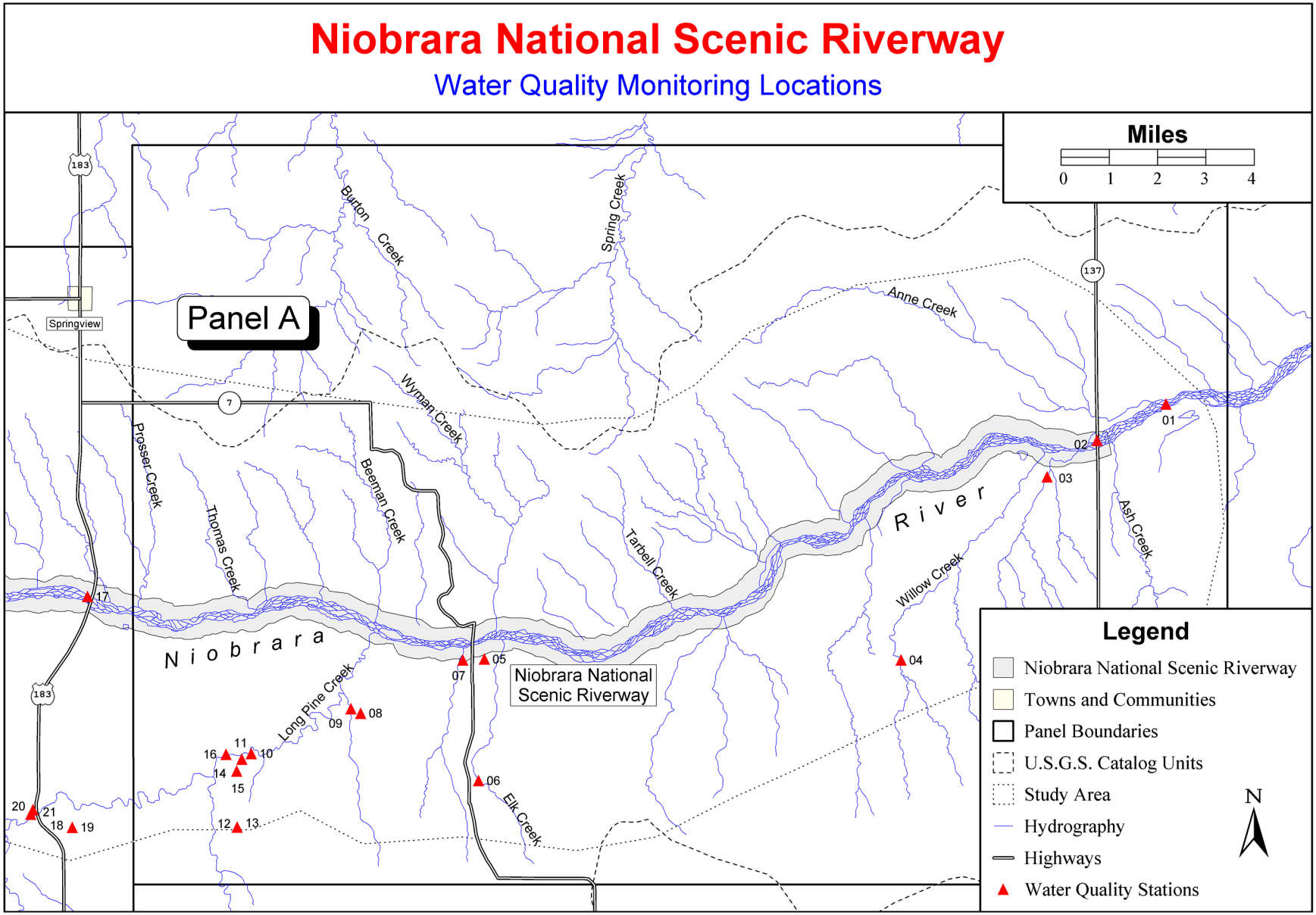
Regional Location Map

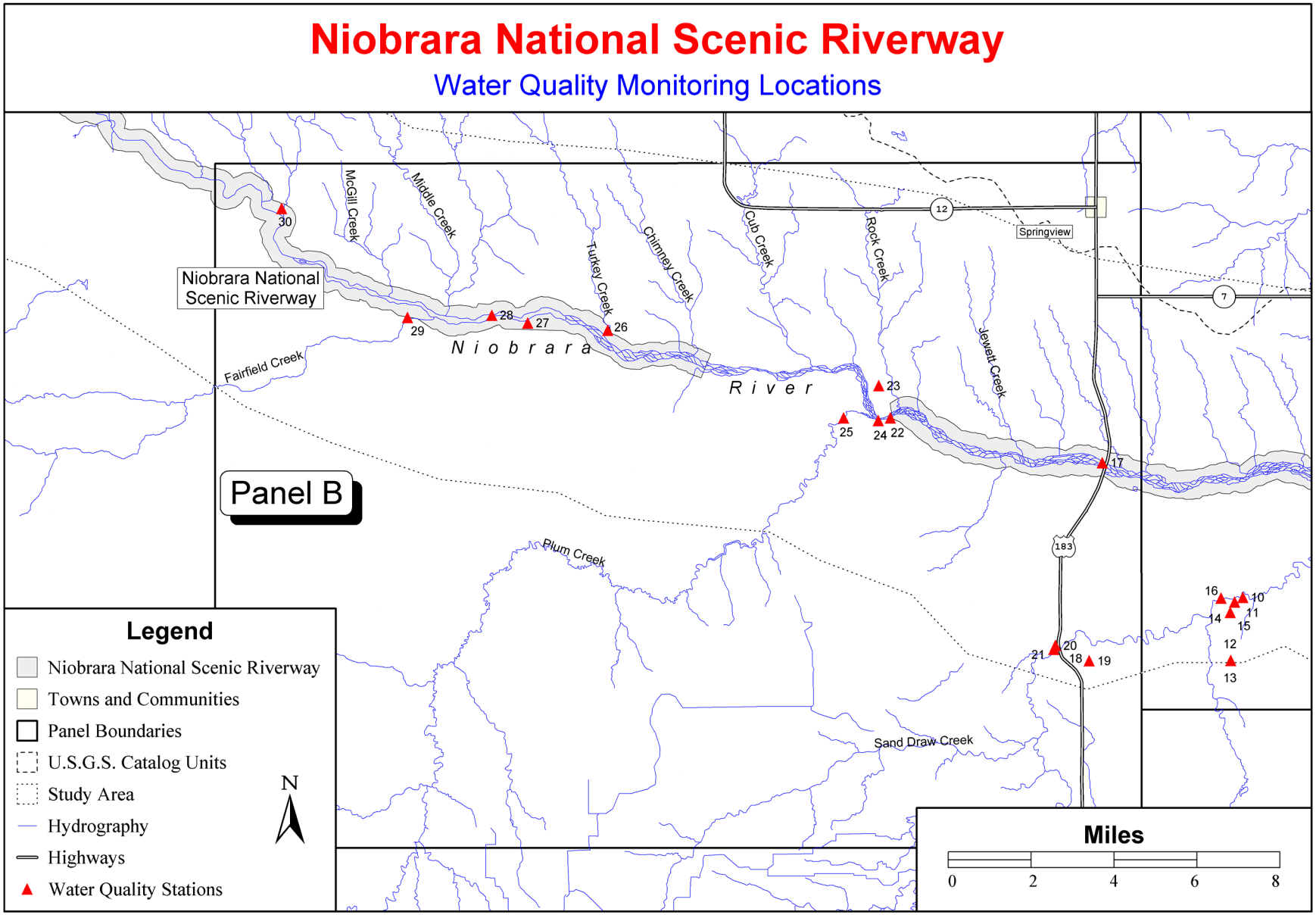


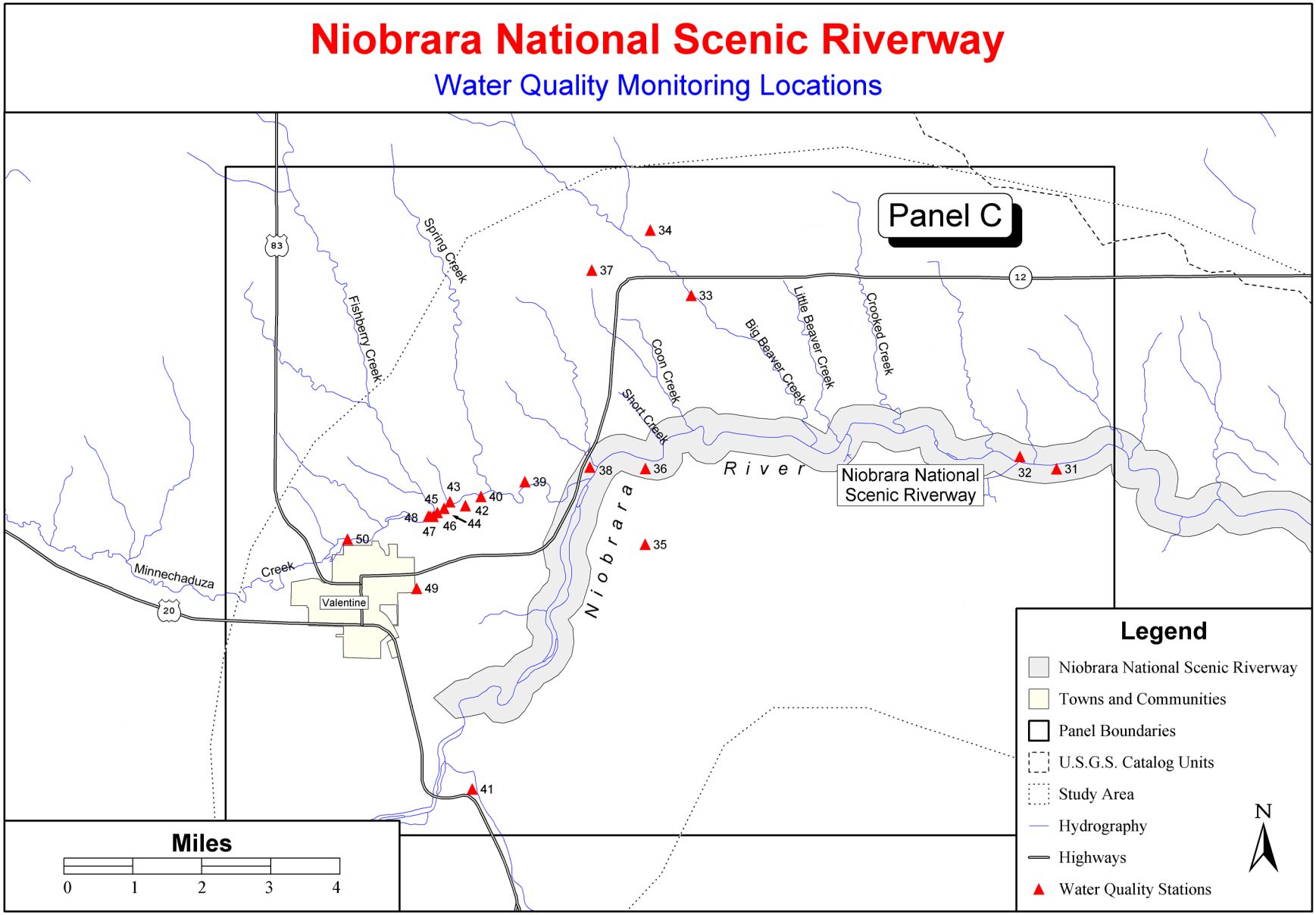
Niobrara National Scenic Riverway

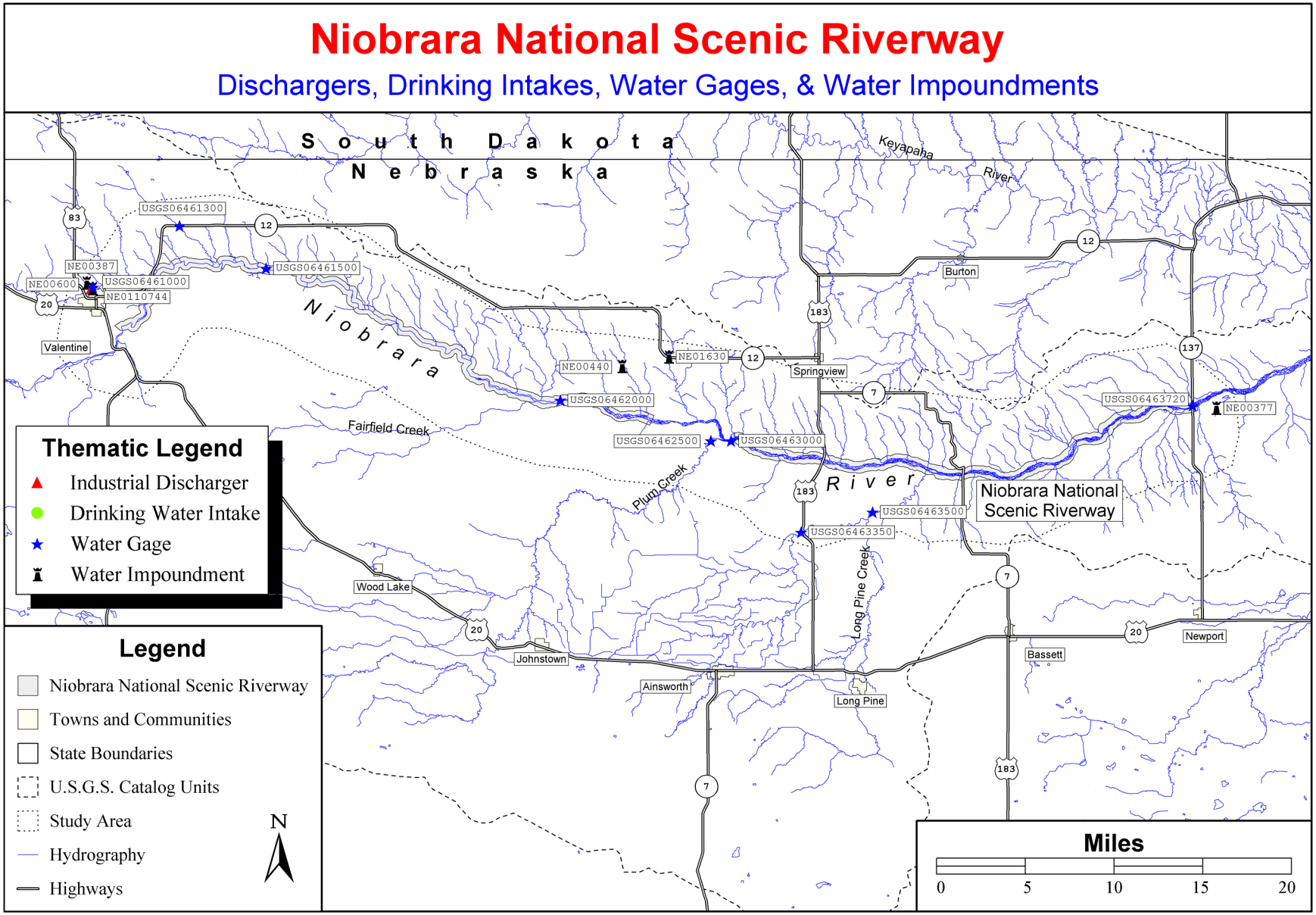
Water Quality Monitoring Locations
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Industrial Facility Discharges, Drinking Water Intakes, Water Gages, and Water Impoundments Within the NIOB Study Area

Industrial Facility Discharges

Site ID	Station/Facility Name	Address	City	Facility Receiving Water Name
NE0110744	PAVELKA ENTERPRISES VALENTINE	376 WEST SIXTH STREET	VALENTINE	MINNECHADUZA CREEK

Drinking Water Intakes

Site ID	Station/Facility Name	City	Population Served	Avg. Daily Production (Gal./Day)

No drinking water intakes available for this study area.

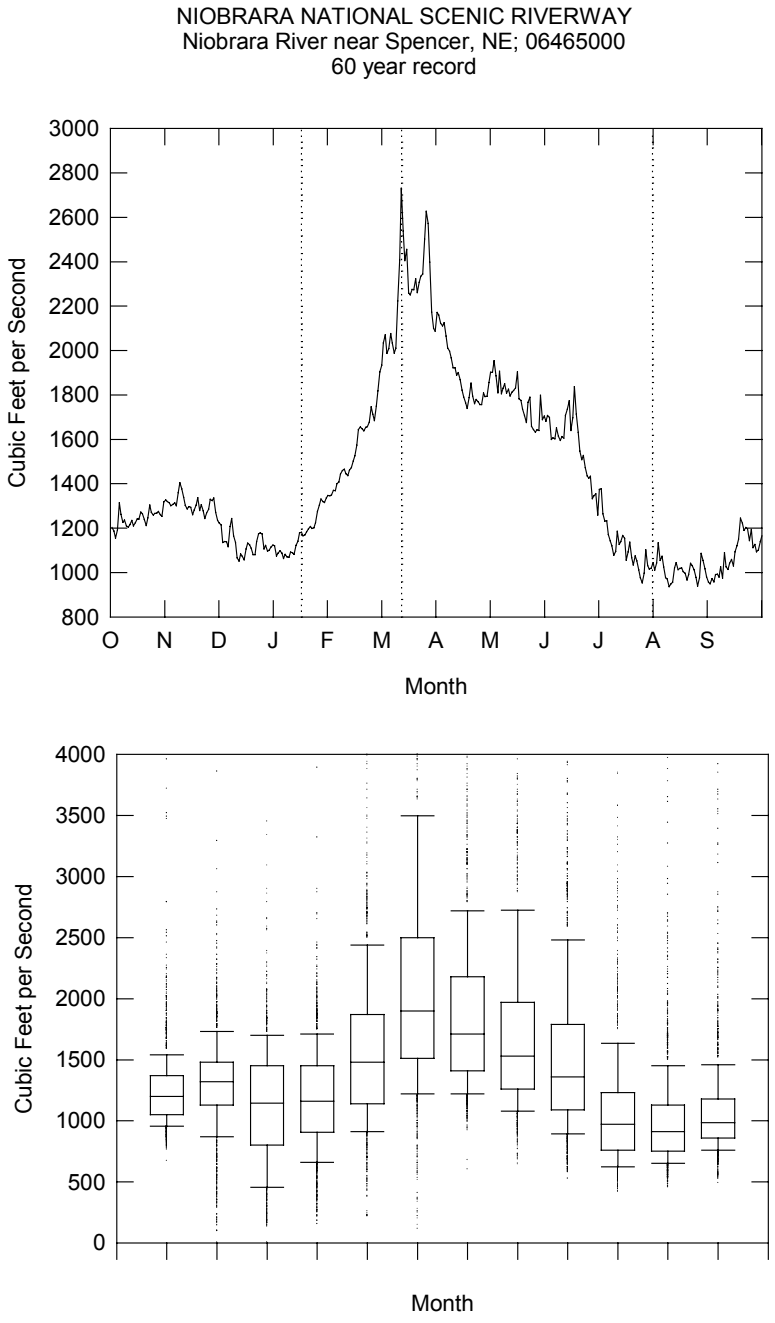
Water Gages

Site ID	Station Name	Site Type	Drainage Area (Square Miles)	Begin Year	End Year
USGS06461000	MINNECHADUZA CREEK AT VALENTINE, NEBR.	Stream	390.00	1948	1993
USGS06461300	BIG BEAVER CREEK NEA	Stream	24.90		
USGS06461500	NIOBRARA RIVER NEAR SPARKS, NEBR.	Stream	6406.00	1946	1993
USGS06462000	NIOBRARA RIVER NR NORDEN NEBR	Stream	8390.00	1953	1986
USGS06462500	PLUM CREEK AT MEADVILLE, NE	Stream	600.00	1948	1993
USGS06463000	NIOBRARA RIVER AT MEADVILLE NE	Stream			
USGS06463350	BONE CREEK NEAR LONG	Stream			
USGS06463500	LONG PINE CREEK NEAR RIVERVIEW, NEBR.	Stream	390.00	1948	1993
USGS06463720	NIOBRARA RIVER AT MARIAVILLE, NE	Stream	9840.00	1986	1991

Water Impoundments

Site ID	Impoundment Name	Owner	Primary Purpose	Type of Dam	Downstream Hazard	Year Completed
NE00377	COOK DAM	DONALD FOCKEN	Irrig.	Earth	Low	1951
NE00387	VALENTINE CITY PARK DAM	NE GAME & PARKS COMM	Rec.	Earth	Low	1938
NE00440	BATCHELDER DAM	CLIFTON BATCHELDER	Other	Earth	Low	1971
NE00600	PIERCE MILLING PLANT DAM	NE PUBLIC POWER DISTRICT	Hydro	Earth	Significant	1929
NE01630	CUB CREEK DAM	MIDDLE NIOBRARA NRD	Rec.	Earth	Significant	1977

REPRESENTATIVE MEAN ANNUAL HYDROGRAPH FOR SEASONAL ANALYSIS



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 Niobrara National Scenic Riverway are: Aug. 1 to Jan. 14, Jan. 15 to Mar. 9, to Mar. 10 to Jul. 31.

CONTACTS FOR AGENCY CODES RETRIEVED FOR NIOB

AGENCY	PRIMARY CONTACT NAME	ORGANIZATION	PHONE NUMBER(S)
21NEB001	WALKER, STEVE	NEBRASKA DEPT ENV CONTROL	(402)471-2186
112WRD	YORKE, TOM	US GEOLOGICAL SURVEY	(703)648-5687
1117MBR	CRISP, NORM	USEPA REGION 7	(913)236-3884

-FIELD SURVEY REFERENCES:

AGENCY	ENTRY	DESCRIPTION
21NEB001	V-00001	84/07/01 - 205J BIOLOGICAL SURVEY MONITORING
21NEB001	V-00002	82/01/01 - AMBIENT BIOLOGICAL NETWORK MONITORING
21NEB001	V-00003	79/09/01 - LONG PINE SURVEY BASELINE

QUANTITY OF DATA RETRIEVED FOR NIOB 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[1] 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
21NEB001	NEBRASKA DEPT ENV CONTROL	05/15/68-07/23/93	05/15/68-04/21/93	26	6	11	2	0	0	15134	3963	116	82
112WRD	US GEOLOGICAL SURVEY	06/09/47-09/09/93	06/09/47-09/09/93	8	3	7	3	0	0	23629	12676	215	199
1117MBR	USEPA REGION 7	10/02/66-09/21/94	10/01/76-10/12/77	16	1	0	0	1	0	2018	208	21	17
Totals		06/09/47-09/21/94	06/09/47-09/09/93	50	10	18	5	1	0	40781	16847	281	244

[1]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 06/09/47 To 09/21/94

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 09/21/94	01/01/75 to 12/31/84	Before 01/01/75
NIOB0001	NIABRARA RIVER NR MARIAVILLE, NE	No	147	147	0	0
NIOB0002[1]	NIOBRARA RIVER AT MARIAVILLE, NE	Yes	1685	1685	0	0
NIOB0003	OAK CREEK	No	51	51	0	0
NIOB0004	WILLOW CREEK	No	24	24	0	0
NIOB0005[1]	NIOBRARA RIVER S OF RIVERVIEW	No	2720	998	1399	323
NIOB0006	ELK CREEK	No	24	24	0	0
NIOB0007	SAND CREEK	No	72	72	0	0
NIOB0008[1]	LONG PINE CREEK AT RIVERVIEW	No	563	0	246	317
NIOB0009	SHORT PINE CREEK	No	90	90	0	0
NIOB0010[1]	LONG PINE CREEK BLW CNFL BONE CR	No	1616	1434	182	0
NIOB0011	LONG PINE CREEK	No	22	0	22	0
NIOB0012[1]	LONG PINE CREEK	No	784	0	784	0
NIOB0013	LONG PINE CREEK	No	494	0	494	0
NIOB0014	LONG PINE CREEK	No	698	0	698	0
NIOB0015[1]	LONG PINE CREEK	No	830	0	830	0
NIOB0016[1]	LONG PINE CREEK NEAR RIVERVIEW, NEBR.	No	7607	3385	2839	1383
NIOB0017	NIOBRARA RIVER	Yes	23	23	0	0
NIOB0018[1]	BONE CREEK BLW CNFL SAND DRAW	No	709	0	709	0
NIOB0019	BONE CREEK BLW CNFL SAND DRAW	No	447	0	447	0
NIOB0020	BONE CREEK AT BRIDGE ON US 183	No	0	0	0	0
NIOB0021[1]	BONE CREEK NEAR LONG PINE, NEBR	No	771	0	446	325
NIOB0022[1]	NIOBRARA RIVER AT MEADVILLE NE	No	550	0	0	550
NIOB0023	ROCK CREEK	No	94	94	0	0
NIOB0024[1]	PLUM CREEK AT MEADVILLE	No	725	0	401	324
NIOB0025[1]	PLUM CREEK AT MEADVILLE, NE	No	1878	0	1878	0
NIOB0026	TURKEY CREEK	Yes	25	25	0	0
NIOB0027[1]	NIOBRARA RIVER AT NORDEN	Yes	514	0	240	274
NIOB0028[1]	NIOBRARA RIVER NR NORDEN NEBR	Yes	5668	0	2951	2717
NIOB0029	FAIRFIELD CREEK	No	85	85	0	0
NIOB0030	MULESHOE CREEK	Yes	27	27	0	0
NIOB0031[1]	NIOBRARA RIVER AT SPARKS	Yes	3209	1716	1278	215
NIOB0032[1]	NIOBRARA RIVER NEAR SPARKS, NEBR.	Yes	5323	3380	1041	902
NIOB0033	BIG BEAVER CREEK	No	24	24	0	0
NIOB0034	NIOBRARA R	No	55	0	55	0
NIOB0035[1]	MINNECHADUZA CREEK AT VALENTINE	No	746	0	405	341
NIOB0036	NIOBRARA RIVER AT VALENTINE NE	Yes	165	0	71	94
NIOB0037	NIOBRARA R	No	56	0	56	0
NIOB0038	MINNECHADUZA CREEK STATION NO 7	Yes	208	0	208	0
NIOB0039	MINNECHADUZA CREEK STATION NO 6	No	202	0	193	9
NIOB0040	MINNECHADUZA CREEK STATION NO 5	No	204	0	204	0
NIOB0041[1]	NIOBRARA R AT VALENTINE SE	No	375	0	75	300
NIOB0042	MINNECHADUZA CREEK STATION NO 4	No	200	0	200	0
NIOB0043	MINNECHADUZA CREEK STATION NO 3	No	193	0	193	0
NIOB0044	MINNECHADUZA CREEK STATION NO 2	No	207	0	207	0
NIOB0045	MINNECHADUZA CREEK STATION NO 1	No	195	0	195	0
NIOB0046	MINNECHADUZA CREEK UPSTREAM STN	No	199	0	199	0
NIOB0047	STATE FISH HATCH RECT RACEWAY EF	No	66	0	66	0
NIOB0048	STATE FISH HATCH CIRC RACEWAY EF	No	63	0	63	0
NIOB0049	STATE FISH HATCHERY RESERVOIR	No	128	0	128	0
NIOB0050	VALENTINE MILL LAKE NW OF VALENTINE, NEBRASKA.	No	20	20	0	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 06/09/47 To 09/21/94

Parameter Code	Name	Total Obs	01/01/85 to 09/21/94	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
00001	X-SEC. LOC., HORIZ (FT. FROM R BANK LOOK UPSTR.)	1	0	0	1	1	0
00004	STREAM WIDTH (FEET)	43	36	7	0	14	3
00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	47	0	0	47	7	2
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	1948	489	1101	358	45	10
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	727	222	373	132	15	6
00025	BAROMETRIC PRESSURE (MM OF HG)	19	19	0	0	4	2
00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	337	222	115	0	7	3
00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	467	222	245	0	7	3
00030	LIGHT, INCIDENT, SUNLIGHT RADIATION INTENSITY	1	0	1	0	1	0
00032	CLOUD COVER (PERCENT)	110	0	35	75	8	3
00035	WIND VELOCITY (MILES PER HOUR)	4	0	4	0	4	2
00057	FLOW, INDICATES IT HAS BEEN CHECKED	136	64	66	6	2	1
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	1	0	1	0	1	0
00060	FLOW, STREAM, MEAN DAILY CFS	534	64	217	253	11	4
00061	FLOW, STREAM, INSTANTANEOUS CFS	1321	254	692	375	24	6
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	120	3	0	117	5	3
00064	DEPTH OF STREAM, MEAN (FT)	43	36	7	0	14	3
00065	STAGE, STREAM (FEET)	29	0	29	0	3	2
00069	SEA WAVES(0=NONE;1=0-3";2=4-20";3=21-48";4=4-8')	1	1	0	0	1	0
00070	TURBIDITY, (JACKSON CANDLE UNITS)	201	0	71	130	9	3
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	106	0	106	0	13	1
00080	COLOR (PLATINUM-COBALT UNITS)	489	200	253	36	5	2
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	2	0	2	0	1	1
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	1651	478	964	209	46	10
00100	TIME OF TRAVEL (HOURS)	4	0	4	0	4	2
00121	PRECIPITATION,CUMULATIVE AT GIVEN TIME,LOC.3(IN)	102	0	102	0	3	0
00122	PRECIPITATION,CUMULATIVE AT GIVEN TIME,LOC.2(IN)	102	0	102	0	3	0
00123	PRECIPITATION,CUMULATIVE AT GIVEN TIME,LOC.1(IN)	98	0	98	0	3	0
00127	PRECIPITATION,INTENSITY AT GIVEN TIME,LOC.3 IN/HR	47	0	47	0	3	0
00128	PRECIPITATION,INTENSITY AT GIVEN TIME,LOC.2 IN/HR	56	0	56	0	3	0
00129	PRECIPITATION,INTENSITY AT GIVEN TIME,LOC.1 IN/HR	56	0	56	0	3	0
00200	LIGHT,INCIDENT,400-700NM,INTENSITY,UEINSTEINS/M2/S	3	0	3	0	3	2
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	3	0	3	0	3	1
00300	OXYGEN, DISSOLVED MG/L	1027	278	619	130	34	8
00304	BOD, 2 DAY, 20 DEG C MG/L	107	0	107	0	13	1
00310	BOD, 5 DAY, 20 DEG C MG/L	451	0	441	10	27	3
00320	BOD, ULTIMATE 1ST STAGE, 20 DEG C MG/L	4	0	4	0	4	2
00335	COD, .025N K2CR2O7 MG/L	174	33	141	0	7	1
00340	COD, .25N K2CR2O7 MG/L	471	199	271	1	22	3
00400	PH (STANDARD UNITS)	1178	358	630	190	19	6
00403	PH, LAB, STANDARD UNITS SU	842	440	401	1	30	5
00405	CARBON DIOXIDE (MG/L AS CO2)	108	0	97	11	4	1
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	352	3	198	151	13	4
00417	ALKALINITY,FIXED ENDPOINT TITRATION, USGS LAB MG/L	2	2	0	0	2	1
00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	3	3	0	0	1	0
00440	BICARBONATE ION (MG/L AS HCO3)	172	0	97	75	4	1
00445	CARBONATE ION (MG/L AS CO3)	169	0	97	72	4	1
00447	CARBONATE,INCREMENTAL TITRATION,(CO3) FIELD MG/L	3	3	0	0	1	0
00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	3	3	0	0	1	0
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	3	3	0	0	1	0
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	3	3	0	0	1	0
00500	RESIDUE, TOTAL (MG/L)	19	0	0	19	7	2
00505	RESIDUE, TOTAL VOLATILE (MG/L)	20	0	0	20	8	2
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	263	0	168	95	11	3
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	752	236	515	1	26	3
00600	NITROGEN, TOTAL (MG/L AS N)	3	2	0	1	2	1
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	7	2	0	5	2	1
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	63	61	2	0	4	2
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	789	255	525	9	31	4
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	61	61	0	0	2	1
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	4	0	0	4	1	0
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	61	61	0	0	2	1
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	198	85	107	6	22	3
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	906	256	547	103	31	5
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	541	199	325	17	5	2
00640	NITROGEN, INORGANIC, TOTAL (MG/L AS N)	1	0	1	0	1	0
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	62	0	0	62	8	2
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	96	0	91	5	8	3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	1030	432	592	6	30	5
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	492	180	291	21	5	2
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	61	61	0	0	2	1

Parameter Period of Record Tabulation
From 06/09/47 To 09/21/94

Parameter Code	Name	Total Obs	01/01/85 to 09/21/94	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	454	226	228	0	11	1
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	17	17	0	0	1	1
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	1	1	0	0	1	1
00700	ACIDS, TOTAL VOLATILE (MG/L AS ACETIC ACID)	2	0	0	2	2	1
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	2	0	0	2	1	1
00900	HARDNESS, TOTAL (MG/L AS CACO3)	491	11	296	184	14	6
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	242	0	167	75	4	1
00915	CALCIUM, DISSOLVED (MG/L AS CA)	1273	455	648	170	22	6
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	1269	456	643	170	22	6
00930	SODIUM, DISSOLVED (MG/L AS NA)	1309	456	686	167	22	6
00931	SODIUM ADSORPTION RATIO	470	11	282	177	14	6
00932	SODIUM, PERCENT	308	11	266	31	6	3
00933	SODIUM,PLUS POTASSIUM (MG/L)	45	0	35	10	4	1
00935	POTASSIUM, DISSOLVED (MG/L AS K)	739	220	352	167	15	6
00940	CHLORIDE,TOTAL IN WATER MG/L	1408	455	766	187	22	6
00945	SULFATE, TOTAL (MG/L AS SO4)	754	219	354	181	15	6
00950	FLUORIDE, DISSOLVED (MG/L AS F)	623	209	318	96	14	5
00955	SILICA, DISSOLVED (MG/L AS SI02)	596	209	313	74	7	3
01000	ARSENIC, DISSOLVED (UG/L AS AS)	3	0	0	3	2	1
01002	ARSENIC, TOTAL (UG/L AS AS)	20	20	0	0	3	1
01005	BARIUM, DISSOLVED (UG/L AS BA)	2	0	0	2	1	1
01007	BARIUM, TOTAL (UG/L AS BA)	19	19	0	0	2	1
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	2	0	0	2	1	1
01012	BERYLLIUM, TOTAL (UG/L AS BE)	20	20	0	0	2	1
01020	BORON, DISSOLVED (UG/L AS B)	566	199	287	80	12	4
01025	CADMIUM, DISSOLVED (UG/L AS CD)	3	0	0	3	2	1
01027	CADMIUM, TOTAL (UG/L AS CD)	21	21	0	0	3	1
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	1	1	0	0	1	1
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	5	1	0	4	3	2
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	1	0	0	1	1	1
01034	CHROMIUM, TOTAL (UG/L AS CR)	21	21	0	0	3	1
01035	COBALT, DISSOLVED (UG/L AS CO)	2	0	0	2	1	1
01040	COPPER, DISSOLVED (UG/L AS CU)	4	0	0	4	2	1
01042	COPPER, TOTAL (UG/L AS CU)	36	21	1	14	11	4
01045	IRON, TOTAL (UG/L AS FE)	19	0	0	19	7	2
01046	IRON, DISSOLVED (UG/L AS FE)	568	203	290	75	7	2
01049	LEAD, DISSOLVED (UG/L AS PB)	3	0	0	3	2	1
01051	LEAD, TOTAL (UG/L AS PB)	21	21	0	0	3	1
01055	MANGANESE, TOTAL (UG/L AS MN)	9	0	0	9	8	2
01056	MANGANESE, DISSOLVED (UG/L AS MN)	543	203	288	52	6	2
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	2	0	0	2	1	1
01065	NICKEL, DISSOLVED (UG/L AS NI)	2	0	0	2	1	1
01067	NICKEL, TOTAL (UG/L AS NI)	20	20	0	0	2	1
01075	SILVER, DISSOLVED (UG/L AS AG)	4	1	0	3	3	2
01077	SILVER, TOTAL (UG/L AS AG)	1	1	0	0	1	0
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	2	0	0	2	1	1
01085	VANADIUM, DISSOLVED (UG/L AS V)	2	0	0	2	1	1
01090	ZINC, DISSOLVED (UG/L AS ZN)	5	1	0	4	3	2
01092	ZINC, TOTAL (UG/L AS ZN)	41	21	1	19	11	4
01100	TIN, DISSOLVED (UG/L AS SN)	2	0	0	2	1	1
01105	ALUMINUM, TOTAL (UG/L AS AL)	4	3	0	1	2	1
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	1	0	0	1	1	1
01130	LITHIUM, DISSOLVED (UG/L AS LI)	2	0	0	2	1	1
01135	RUBIDIUM, DISSOLVED (UG/L AS RB)	2	0	0	2	1	1
01145	SELENIUM, DISSOLVED (UG/L AS SE)	3	0	0	3	2	1
01147	SELENIUM, TOTAL (UG/L AS SE)	21	21	0	0	3	1
01150	TITANIUM, DISSOLVED (UG/L AS TI)	2	0	0	2	1	1
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	2	0	0	2	1	1
01300	OIL-GREASE (SEVERITY)	204	182	22	0	7	3
01305	DETERGENT SUDS (SEVERITY)	204	182	22	0	7	3
01310	GAS BUBBLES (SEVERITY)	153	153	0	0	3	2
01315	SLUDGE, FLOATING (SEVERITY)	175	153	22	0	7	3
01320	GARBAGE, FLOATING (SEVERITY)	204	182	22	0	7	3
01325	ALGAE, FLOATING MATS (SEVERITY)	204	182	22	0	7	3
01330	ODOR, ATMOSPHERIC (SEVERITY)	203	181	22	0	7	3
01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	173	151	22	0	7	3
01340	FISH, DEAD (SEVERITY)	205	183	22	0	7	3
01345	DEBRIS, FLOATING (SEVERITY)	204	182	22	0	7	3
01350	TURBIDITY (SEVERITY)	182	182	0	0	3	2
01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE	22	0	22	0	4	1
01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	175	153	22	0	7	3

Parameter Period of Record Tabulation
From 06/09/47 To 09/21/94

Parameter Code	Name	Total Obs	01/01/85 to 09/21/94	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	652	233	410	9	25	3
31648	E. COLI - MTEC-MF N0/100ML	83	83	0	0	3	1
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	363	230	132	1	8	1
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	5	0	5	0	2	0
39011	DISYSTON, FLAME PHOTOMETRIC,WATER SAMPLE (UG/L)	3	3	0	0	1	1
39023	PHORATE, FLAME IONIZATION, WATER SAMPLE (UG/L)	3	3	0	0	1	1
39024	PROPAZINE,COULSON CONDUCTIVITY,WATER SAMPL(UG/L)	18	18	0	0	2	1
39030	TREFLAN, MICROCOULOMETRIC,WATER SAMPLE (UG/L)	11	11	0	0	2	1
39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1	1
39040	S,S,S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L	1	1	0	0	1	1
39051	METHOMYL IN WHOLE WATER (UG/L)	17	17	0	0	1	1
39052	PROPHAM IN WHOLE WATER (UG/L)	17	17	0	0	1	1
39054	SIMETRYNE IN WHOLE WATER (UG/L)	18	18	0	0	2	1
39055	SIMAZINE IN WHOLE WATER (UG/L)	18	18	0	0	2	1
39056	PROMETONE IN WHOLE WATER (UG/L)	18	18	0	0	2	1
39057	PROMETRYNE IN WHOLE WATER (UG/L)	18	18	0	0	2	1
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	3	3	0	0	1	0
39250	NAPTHALENES, POLYCHLORINATED (UG/L)	17	17	0	0	1	1
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1	1
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	17	17	0	0	1	1
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	17	17	0	0	1	1
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1	1
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1	1
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1	1
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1	1
39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1	1
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1	1
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1	1
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1	1
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1	1
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1	1
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1	1
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1	1
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1	1
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1	1
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1	1
39580	GUTHION IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1	1
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1	1
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE (UG/L)	18	18	0	0	2	1
39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	18	18	0	0	2	1
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	18	18	0	0	2	1
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	18	18	0	0	2	1
39750	SEVIN IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1	1
39755	MIREX, TOTAL (UG/L)	17	17	0	0	1	1
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	18	18	0	0	2	1
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1	1
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1	1
50086	SETTLEABLE MATTER (ML/L/HR)	1	0	1	0	1	0
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	67	0	3	64	4	1
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	281	8	244	29	5	2
70302	SOLIDS, DISSOLVED-TONS PER DAY	310	0	244	66	5	2
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	307	0	241	66	5	2
70326	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .002MM	1	1	0	0	1	1
70327	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .004MM	1	1	0	0	1	1
70328	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .008MM	1	1	0	0	1	1
70329	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .016MM	1	1	0	0	1	1
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	18	2	0	16	4	2
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	49	2	0	47	5	3
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	23	0	0	23	4	2
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	82	2	0	80	5	3
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	60	0	0	60	4	2
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	352	17	0	335	5	3
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	352	17	0	335	5	3
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	332	17	0	315	5	3
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	310	17	0	293	5	3
70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	86	3	0	83	5	3
70347	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 2.00MM	3	0	0	3	3	1
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	75	0	75	0	17	2
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	2	0	2	0	2	1
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	61	0	0	61	3	1
71865	IODIDE (MG/L AS I)	2	0	0	2	1	1

Parameter Period of Record Tabulation
From 06/09/47 To 09/21/94

Parameter Code	Name	Total Obs	01/01/85 to 09/21/94	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	147	20	127	0	5	3
71887	NITROGEN, TOTAL, AS NO3 - MG/L	2	2	0	0	1	1
71890	MERCURY, DISSOLVED (UG/L AS HG)	1	0	0	1	1	0
71900	MERCURY, TOTAL (UG/L AS HG)	22	21	0	1	4	1
72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	24	20	4	0	13	3
74069	FLOW, ESTIMATED STREAM CFS	5	0	5	0	3	0
77825	ALACHLOR WHOLE WATER,UG/L	11	11	0	0	2	1
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	407	17	35	355	8	3
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	390	0	35	355	7	2
80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	106	0	0	106	4	2
80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	117	0	0	117	4	2
80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	117	0	0	117	4	2
80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	117	0	0	117	4	2
80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	107	0	0	107	4	2
80163	BED MATERIAL FALL DIAMETER, % FINER THAN 2.00MM	18	1	0	17	2	2
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	12	12	0	0	1	1
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	15	15	0	0	1	1
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	16	16	0	0	1	1
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	16	16	0	0	1	1
80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	16	16	0	0	1	1
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	62	11	0	51	5	3
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	66	6	0	60	5	3
80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	12	1	0	11	3	3
80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	2	0	0	2	1	1
80203	TOTAL SEDIMENT SIEVE DIAMETER,% FINER THAN .062MM	2	2	0	0	1	1
80204	TOTAL SEDIMENT SIEVE DIAMETER,% FINER THAN .125MM	2	2	0	0	1	1
80205	TOTAL SEDIMENT SIEVE DIAMETER,% FINER THAN .250MM	2	2	0	0	1	1
80206	TOTAL SEDIMENT SIEVE DIAMETER,% FINER THAN .500MM	2	2	0	0	1	1
80207	TOTAL SEDIMENT SIEVE DIAMETER,% FINER THAN 1.00MM	2	2	0	0	1	1
80208	TOTAL SEDIMENT SIEVE DIAMETER,% FINER THAN 2.00MM	1	1	0	0	1	1
80209	TOTAL SEDIMENT SIEVE DIAMETER,% FINER THAN 4.00MM	1	1	0	0	1	1
80210	TOTAL SEDIMENT SIEVE DIAMETER,% FINER THAN 8.00MM	1	1	0	0	1	1
80250	SEDIMENT PARTICLE SIZE FRACT.<.0625MM % DRY WEIGHT	91	0	91	0	3	0
80253	SEDIMENT PRCTL.SIZE CLASS0.25-.50MMMED SAND %DRYWT	91	0	91	0	3	0
80256	SEDIMENT PRTCL.SIZE CLASS>2.0MM GRAVEL % DRY WT.	91	0	91	0	3	0
81757	CYANAZINE IN THE WHOLE WATER SAMPLE UG/L	18	18	0	0	2	1
82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	18	18	0	0	2	1
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	19	0	19	0	4	1
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	18	18	0	0	2	1
82184	AMETRYNE (GESAPAX OR EVIK) TOTAL UG/L	18	18	0	0	2	1
82398	SAMPLING METHOD (CODES)	9	9	0	0	3	2
82611	METRIBUZIN, WHOLE WATER, TOTAL RECOVERABLE UG/L	11	11	0	0	2	1
82612	METOLACHLOR, WHOLE WATER, TOTAL RECOVERABLE UG/L	11	11	0	0	2	1
82655	FISH LENGTH, TOTAL CM	10	10	0	0	1	0
82656	FISH, WHOLE, WET WEIGHT GRAM	10	10	0	0	1	0
83501	SAMPLE, DURATION HOURS	44	40	4	0	13	3
83516	SUBSTRATE, BEDROCK, SOLID ROCK %	7	7	0	0	4	1
83542	SUBSTRATE, COBBLE 256-64 MM %	4	4	0	0	2	1
83544	SUBSTRATE, GRAVEL 16-2 MM %	26	19	7	0	10	2
83545	SUBSTRATE, SAND 2.000-0.062 MM %	41	34	7	0	14	3
83546	SUBSTRATE, SILT 0.062-0.004 MM %	3	2	1	0	2	0
83547	SUBSTRATE,CLAY/FINE PART. ORG MATR .004-.00024MM,%	2	2	0	0	1	0
83548	SUBSTRATE,DETRITUS/COARSE PARTICULATE ORG MATTER,%	3	3	0	0	2	0
84132	STREAMBANK, VEGETATIVE STABILITY RATING CODE	18	16	2	0	12	3
84133	STREAMBANK, STABILITY (BANK EROSION) RATING CODE	18	16	2	0	12	3
84150	HABITAT QUALITY INDEX RATING CODE	14	9	5	0	12	3
84151	AQUATIC LIFE, USE CLASSES CODE	24	19	5	0	14	3
84152	STREAM, STAGE CLASS CODE	24	19	5	0	14	3
84153	STREAMBANKS, GRAZING DAMAGE CODE	9	9	0	0	4	0
84154	CHANNEL, MAJOR ALTERATIONS CODE	24	19	5	0	14	3
84155	RIFFLE/RUNS, OCCURANCE CODE	10	10	0	0	5	0
84156	POOL, DESCRIPTION CODE	10	10	0	0	5	0
84157	SANDBARS, LARGE, OCCURANCE CODE	4	4	0	0	2	0
84158	LAND USE, NEAR STREAM, PREDOMINANT CODE	10	10	0	0	5	0
84159	STREAM,COVER(INSTREAM SHELTER FOR ADULT FISH),CODE	10	10	0	0	5	0
84160	STREAM, DEGRADATION RATING CODE	23	18	5	0	14	3
84161	STREAM, ORDER CODE	24	19	5	0	14	3
84163	STREAM, ORDER CODE	24	19	5	0	14	3

Station/Parameter Period of Record Tabulation
From 06/09/47 To 09/21/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
NIOB0003	No	00004	STREAM WIDTH (FEET)	07/17/91-07/17/91	0	2	
NIOB0004	No	00004	STREAM WIDTH (FEET)	06/18/87-06/22/87	0	2	
NIOB0006	No	00004	STREAM WIDTH (FEET)	06/18/87-06/18/87	0	2	
NIOB0007	No	00004	STREAM WIDTH (FEET)	06/18/87-06/16/92	4	4	
NIOB0009	No	00004	STREAM WIDTH (FEET)	06/18/87-07/23/93	6	7	
NIOB0012	No	00004	STREAM WIDTH (FEET)	07/27/82-11/07/83	1	3	
NIOB0015	No	00004	STREAM WIDTH (FEET)	07/27/82-11/02/83	1	2	
NIOB0017	Yes	00004	STREAM WIDTH (FEET)	06/23/87-06/25/87	0	2	
NIOB0018	No	00004	STREAM WIDTH (FEET)	05/10/83-08/30/83	0	2	
NIOB0023	No	00004	STREAM WIDTH (FEET)	07/16/91-07/28/92	1	4	
NIOB0026	Yes	00004	STREAM WIDTH (FEET)	06/23/87-06/25/87	0	2	
NIOB0029	No	00004	STREAM WIDTH (FEET)	06/24/87-07/08/93	6	7	
NIOB0030	Yes	00004	STREAM WIDTH (FEET)	06/23/87-06/25/87	0	2	
NIOB0033	No	00004	STREAM WIDTH (FEET)	06/24/87-06/24/87	0	2	
NIOB0001	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/04/88-10/14/88	0	3	
NIOB0002	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/23/85-08/31/89	3	17	
NIOB0003	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/91-07/17/91	0	2	
NIOB0004	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/18/87-06/18/87	0	1	
NIOB0005	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-09/18/89	21	156	
NIOB0006	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/18/87-06/18/87	0	1	
NIOB0007	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/18/87-06/16/92	4	3	
NIOB0008	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-01/10/84	15	27	
NIOB0009	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/18/87-07/23/93	6	8	
NIOB0010	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/21/84-04/12/93	9	95	
NIOB0011	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/77-10/11/77	0	2	
NIOB0012	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/79-07/12/83	3	33	
NIOB0015	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/79-07/12/83	3	36	
NIOB0016	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	42	263	
NIOB0017	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/87-06/25/87	0	1	
NIOB0018	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/80-07/13/83	3	29	
NIOB0021	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/68-07/26/84	15	32	
NIOB0022	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/17/50-09/25/52	1	26	
NIOB0023	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/91-07/28/92	1	4	
NIOB0024	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-11/16/77	9	35	
NIOB0025	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/09/76-07/25/84	7	68	
NIOB0026	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/87-06/25/87	0	1	
NIOB0027	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-11/16/77	9	25	
NIOB0028	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/52-09/22/83	31	227	
NIOB0029	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/24/87-07/08/93	6	8	
NIOB0030	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/87-06/25/87	0	1	
NIOB0031	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	24	180	
NIOB0032	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	42	227	
NIOB0033	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/24/87-06/24/87	0	1	
NIOB0034	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/08/77-10/11/77	0	4	
NIOB0035	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-11/16/77	9	35	
NIOB0036	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/11/73-10/29/75	1	8	
NIOB0037	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/08/77-10/11/77	0	4	
NIOB0038	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/76-10/11/77	1	44	
NIOB0039	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/76-10/11/77	1	44	
NIOB0040	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/76-10/11/77	1	44	
NIOB0041	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-10/23/75	7	19	
NIOB0042	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/76-10/11/77	1	43	
NIOB0043	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/76-10/11/77	1	43	
NIOB0044	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/76-10/11/77	1	43	
NIOB0045	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/76-10/11/77	1	43	
NIOB0046	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/76-10/11/77	1	44	
NIOB0047	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/76-10/06/76	0	5	
NIOB0048	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/76-10/06/76	0	4	
NIOB0049	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/76-10/11/77	1	9	
NIOB0001	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/04/88-10/14/88	0	3	
NIOB0002	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/23/85-08/31/89	3	17	
NIOB0005	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/16/68-12/14/77	9	19	
NIOB0008	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/08/69-11/16/77	8	22	
NIOB0016	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/69-09/09/93	24	223	
NIOB0021	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/73-07/26/84	10	24	
NIOB0024	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/29/68-11/16/77	9	32	
NIOB0025	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	12/09/76-07/25/84	7	62	
NIOB0027	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/29/68-11/16/77	9	21	
NIOB0028	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/74-09/22/83	9	106	
NIOB0031	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/29/68-12/14/77	9	10	
NIOB0032	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/04/82-09/09/93	11	133	
NIOB0035	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/29/68-11/16/77	9	33	

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

Station/Parameter Period of Record Tabulation
From 06/09/47 To 09/21/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
NIOB0036	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	12/11/73-02/19/75	1	6	
NIOB0041	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/29/68-05/15/75	6	16	
NIOB0001	No	00025	BAROMETRIC PRESSURE (MM OF HG)	10/04/88-10/14/88	0	3	
NIOB0002	Yes	00025	BAROMETRIC PRESSURE (MM OF HG)	09/23/85-08/31/89	3	13	
NIOB0016	No	00025	BAROMETRIC PRESSURE (MM OF HG)	10/23/85-10/10/91	5	2	
NIOB0032	Yes	00025	BAROMETRIC PRESSURE (MM OF HG)	06/19/91-06/19/91	0	1	
NIOB0005	No	00030	LIGHT, INCIDENT, SUNLIGHT RADIATION INTENSITY	06/26/84-06/26/84	0	1	
NIOB0005	No	00032	CLOUD COVER (PERCENT)	05/26/70-05/15/75	4	14	
NIOB0008	No	00032	CLOUD COVER (PERCENT)	08/30/70-10/20/76	6	17	
NIOB0024	No	00032	CLOUD COVER (PERCENT)	08/30/70-12/07/76	6	20	
NIOB0027	Yes	00032	CLOUD COVER (PERCENT)	08/06/71-10/20/76	5	16	
NIOB0031	Yes	00032	CLOUD COVER (PERCENT)	08/06/71-06/06/73	1	4	
NIOB0035	No	00032	CLOUD COVER (PERCENT)	08/06/71-12/08/76	5	19	
NIOB0036	Yes	00032	CLOUD COVER (PERCENT)	12/11/73-02/19/75	1	6	
NIOB0041	No	00032	CLOUD COVER (PERCENT)	05/25/70-05/15/75	4	14	
NIOB0005	No	00035	WIND VELOCITY (MILES PER HOUR)	05/15/75-05/15/75	0	1	
NIOB0027	Yes	00035	WIND VELOCITY (MILES PER HOUR)	05/15/75-05/15/75	0	1	
NIOB0036	Yes	00035	WIND VELOCITY (MILES PER HOUR)	05/15/75-05/15/75	0	1	
NIOB0041	No	00035	WIND VELOCITY (MILES PER HOUR)	05/15/75-05/15/75	0	1	
NIOB0005	No	00057	FLOW, INDICATES IT HAS BEEN CHECKED	02/20/80-09/22/86	6	42	
NIOB0031	Yes	00057	FLOW, INDICATES IT HAS BEEN CHECKED	05/26/70-04/10/89	18	94	
NIOB0047	No	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	10/03/76-10/03/76	0	1	
NIOB0005	No	00060	FLOW, STREAM, MEAN DAILY CFS	05/16/68-09/22/86	18	101	
NIOB0008	No	00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-10/20/76	8	26	
NIOB0016	No	00060	FLOW, STREAM, MEAN DAILY CFS	06/29/48-10/11/73	25	38	S
NIOB0021	No	00060	FLOW, STREAM, MEAN DAILY CFS	10/31/68-05/08/74	5	10	
NIOB0024	No	00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-11/16/77	9	31	
NIOB0027	Yes	00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-11/16/77	9	27	
NIOB0028	Yes	00060	FLOW, STREAM, MEAN DAILY CFS	09/28/60-09/09/74	13	93	
NIOB0031	Yes	00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-04/10/89	20	140	
NIOB0035	No	00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-11/16/77	9	37	
NIOB0036	Yes	00060	FLOW, STREAM, MEAN DAILY CFS	12/11/73-10/29/75	1	10	
NIOB0041	No	00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-10/23/75	7	21	
NIOB0002	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/23/85-08/31/89	3	17	
NIOB0003	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/17/91-07/17/91	0	2	
NIOB0004	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/18/87-06/22/87	0	2	
NIOB0006	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/18/87-06/18/87	0	2	
NIOB0007	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/18/87-06/16/92	4	4	
NIOB0009	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/18/87-07/26/89	2	6	
NIOB0012	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/24/79-07/12/83	3	42	
NIOB0013	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/13/82-06/27/83	1	45	
NIOB0014	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/13/82-06/29/83	1	80	
NIOB0015	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/24/79-07/12/83	3	45	
NIOB0016	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	45	301	
NIOB0017	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/87-06/25/87	0	2	
NIOB0018	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	04/24/80-07/13/83	3	37	
NIOB0019	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/13/82-06/27/83	1	51	
NIOB0021	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/08/74-07/26/84	10	23	
NIOB0022	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	04/18/50-10/01/52	2	65	
NIOB0023	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/16/91-07/28/92	1	4	
NIOB0025	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	12/09/76-07/25/84	7	68	
NIOB0026	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/87-06/25/87	0	2	
NIOB0028	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	04/13/50-09/22/83	33	205	
NIOB0029	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/24/87-07/08/93	6	7	
NIOB0030	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/87-06/25/87	0	2	
NIOB0032	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	46	307	
NIOB0033	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/24/87-06/24/87	0	2	
NIOB0003	No	00064	DEPTH OF STREAM, MEAN (FT)	07/17/91-07/17/91	0	2	
NIOB0004	No	00064	DEPTH OF STREAM, MEAN (FT)	06/18/87-06/22/87	0	2	
NIOB0006	No	00064	DEPTH OF STREAM, MEAN (FT)	06/18/87-06/18/87	0	2	
NIOB0007	No	00064	DEPTH OF STREAM, MEAN (FT)	06/18/87-06/16/92	4	4	
NIOB0009	No	00064	DEPTH OF STREAM, MEAN (FT)	06/18/87-07/23/93	6	7	
NIOB0012	No	00064	DEPTH OF STREAM, MEAN (FT)	07/27/82-11/07/83	1	3	
NIOB0015	No	00064	DEPTH OF STREAM, MEAN (FT)	07/27/82-11/02/83	1	2	
NIOB0017	Yes	00064	DEPTH OF STREAM, MEAN (FT)	06/23/87-06/25/87	0	2	
NIOB0018	No	00064	DEPTH OF STREAM, MEAN (FT)	05/10/83-08/30/83	0	2	
NIOB0023	No	00064	DEPTH OF STREAM, MEAN (FT)	07/16/91-07/28/92	1	4	
NIOB0026	Yes	00064	DEPTH OF STREAM, MEAN (FT)	06/23/87-06/25/87	0	2	
NIOB0029	No	00064	DEPTH OF STREAM, MEAN (FT)	06/24/87-07/08/93	6	7	
NIOB0030	Yes	00064	DEPTH OF STREAM, MEAN (FT)	06/23/87-06/25/87	0	2	
NIOB0033	No	00064	DEPTH OF STREAM, MEAN (FT)	06/24/87-06/24/87	0	2	
NIOB0016	No	00065	STAGE, STREAM (FEET)	05/05/83-12/11/84	1	13	

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Station/Parameter Period of Record Tabulation
From 06/09/47 To 09/21/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
NIOB0028	Yes	00065	STAGE, STREAM (FEET)	05/04/83-07/29/83	0	3	
NIOB0032	Yes	00065	STAGE, STREAM (FEET)	05/02/83-12/13/84	1	13	
NIOB0005	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/16/68-12/14/77	9	22	
NIOB0008	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/68-11/16/77	9	25	
NIOB0016	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/31/69-10/11/73	4	23	
NIOB0024	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/68-11/16/77	9	34	
NIOB0027	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/68-11/16/77	9	23	
NIOB0031	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/68-12/14/77	9	11	
NIOB0035	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/68-11/16/77	9	35	
NIOB0036	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	12/11/73-10/29/75	1	9	
NIOB0041	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/68-10/23/75	7	19	
NIOB0034	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/08/77-10/11/77	0	4	
NIOB0037	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/08/77-10/11/77	0	4	
NIOB0038	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/01/76-10/11/77	1	10	
NIOB0039	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/02/76-10/11/77	1	9	
NIOB0040	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/01/76-10/11/77	1	10	
NIOB0042	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/01/76-10/11/77	1	10	
NIOB0043	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/01/76-10/11/77	1	9	
NIOB0044	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/01/76-10/11/77	1	10	
NIOB0045	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/01/76-10/11/77	1	10	
NIOB0046	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/02/76-10/11/77	1	10	
NIOB0047	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/01/76-10/05/76	0	5	
NIOB0048	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/02/76-10/06/76	0	5	
NIOB0049	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/01/76-10/11/77	1	10	
NIOB0016	No	00080	COLOR (PLATINUM-COBALT UNITS)	05/16/73-09/09/93	20	186	A
NIOB0021	No	00080	COLOR (PLATINUM-COBALT UNITS)	10/31/68-05/21/75	6	12	
NIOB0025	No	00080	COLOR (PLATINUM-COBALT UNITS)	12/09/76-09/24/81	4	46	
NIOB0028	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	09/28/60-09/22/83	22	113	S
NIOB0032	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	05/04/82-09/09/93	11	132	
NIOB0032	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/20/80-11/18/80	0	2	
NIOB0001	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/04/88-10/14/88	0	3	
NIOB0002	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/23/85-08/31/89	3	16	
NIOB0003	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/91-07/17/91	0	2	
NIOB0004	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/18/87-06/18/87	0	1	
NIOB0005	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-09/18/89	21	157	A
NIOB0006	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/18/87-06/18/87	0	1	
NIOB0007	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/18/87-06/16/92	4	3	
NIOB0008	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-01/10/84	15	28	
NIOB0009	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/18/87-07/23/93	6	8	
NIOB0010	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/21/84-04/12/93	9	95	
NIOB0012	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/24/79-07/12/83	3	44	
NIOB0013	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/13/82-06/27/83	1	29	
NIOB0014	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/13/82-06/27/83	1	45	
NIOB0015	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/24/79-07/12/83	3	48	
NIOB0016	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	45	236	T,A,S
NIOB0017	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/25/87-06/25/87	0	1	
NIOB0018	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/80-07/13/83	3	41	
NIOB0019	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/13/82-06/27/83	1	32	
NIOB0021	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/31/68-07/26/84	15	32	
NIOB0023	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/91-07/28/92	1	4	
NIOB0024	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-11/16/77	9	35	
NIOB0025	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/09/76-07/25/84	7	68	
NIOB0026	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/25/87-06/25/87	0	1	
NIOB0027	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-11/16/77	9	25	
NIOB0028	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-09/22/83	22	154	T,A,S
NIOB0029	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/24/87-07/08/93	6	8	
NIOB0030	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/25/87-06/25/87	0	1	
NIOB0031	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	24	181	T,A,S
NIOB0032	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/03/75-09/09/93	17	194	A
NIOB0033	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/24/87-06/24/87	0	1	
NIOB0034	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/08/77-10/11/77	0	4	
NIOB0035	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-11/16/77	9	36	
NIOB0036	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/11/73-10/29/75	1	8	
NIOB0037	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/08/77-10/11/77	0	4	
NIOB0038	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/76-10/11/77	1	10	
NIOB0039	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/02/66-10/11/77	11	10	
NIOB0040	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/76-10/11/77	1	10	
NIOB0041	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-10/23/75	7	19	
NIOB0042	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/76-10/11/77	1	10	
NIOB0043	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/03/76-10/11/77	1	9	
NIOB0044	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/76-10/11/77	1	10	
NIOB0045	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM 25C)	10/02/76-10/11/77	1	5	

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

Station/Parameter Period of Record Tabulation
From 06/09/47 To 09/21/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
NIOB0046	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/02/76-10/05/76	0	5	
NIOB0047	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/76-10/05/76	0	5	
NIOB0048	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/02/76-10/06/76	0	5	
NIOB0049	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/76-10/08/77	1	7	
NIOB0005	No	00100	TIME OF TRAVEL (HOURS)	05/15/75-05/15/75	0	1	
NIOB0027	Yes	00100	TIME OF TRAVEL (HOURS)	05/15/75-05/15/75	0	1	
NIOB0036	Yes	00100	TIME OF TRAVEL (HOURS)	05/15/75-05/15/75	0	1	
NIOB0041	No	00100	TIME OF TRAVEL (HOURS)	05/15/75-05/15/75	0	1	
NIOB0013	No	00121	PRECIPITATION,CUMULATIVE AT GIVEN TIME,LOC.3(IN)	05/13/82-06/13/83	1	39	
NIOB0014	No	00121	PRECIPITATION,CUMULATIVE AT GIVEN TIME,LOC.3(IN)	05/13/82-06/13/83	1	48	
NIOB0019	No	00121	PRECIPITATION,CUMULATIVE AT GIVEN TIME,LOC.3(IN)	05/13/82-05/14/82	0	15	
NIOB0013	No	00122	PRECIPITATION,CUMULATIVE AT GIVEN TIME,LOC.2(IN)	05/13/82-06/13/83	1	39	
NIOB0014	No	00122	PRECIPITATION,CUMULATIVE AT GIVEN TIME,LOC.2(IN)	05/13/82-06/13/83	1	48	
NIOB0019	No	00122	PRECIPITATION,CUMULATIVE AT GIVEN TIME,LOC.2(IN)	05/13/82-05/14/82	0	15	
NIOB0013	No	00123	PRECIPITATION,CUMULATIVE AT GIVEN TIME,LOC.1(IN)	05/13/82-06/13/83	1	39	
NIOB0014	No	00123	PRECIPITATION,CUMULATIVE AT GIVEN TIME,LOC.1(IN)	05/13/82-06/13/83	1	44	
NIOB0019	No	00123	PRECIPITATION,CUMULATIVE AT GIVEN TIME,LOC.1(IN)	05/13/82-05/14/82	0	15	
NIOB0013	No	00127	PRECIPITATION,INTENSITY AT GIVEN TIME,LOC.3 IN/HR	05/13/82-06/12/83	1	16	
NIOB0014	No	00127	PRECIPITATION,INTENSITY AT GIVEN TIME,LOC.3 IN/HR	05/13/82-06/12/83	1	19	
NIOB0019	No	00127	PRECIPITATION,INTENSITY AT GIVEN TIME,LOC.3 IN/HR	05/13/82-05/14/82	0	12	
NIOB0013	No	00128	PRECIPITATION,INTENSITY AT GIVEN TIME,LOC.2 IN/HR	05/13/82-06/13/83	1	20	
NIOB0014	No	00128	PRECIPITATION,INTENSITY AT GIVEN TIME,LOC.2 IN/HR	05/13/82-06/13/83	1	21	
NIOB0019	No	00128	PRECIPITATION,INTENSITY AT GIVEN TIME,LOC.2 IN/HR	05/13/82-05/14/82	0	15	
NIOB0013	No	00129	PRECIPITATION,INTENSITY AT GIVEN TIME,LOC.1 IN/HR	05/13/82-06/13/83	1	18	
NIOB0014	No	00129	PRECIPITATION,INTENSITY AT GIVEN TIME,LOC.1 IN/HR	05/13/82-06/13/83	1	23	
NIOB0019	No	00129	PRECIPITATION,INTENSITY AT GIVEN TIME,LOC.1 IN/HR	05/13/82-05/14/82	0	15	
NIOB0027	Yes	00200	LIGHT,INCIDENT,400-700NM,INTENSITY,UEINSTEINS/M2/S	05/15/75-05/15/75	0	1	
NIOB0036	Yes	00200	LIGHT,INCIDENT,400-700NM,INTENSITY,UEINSTEINS/M2/S	05/15/75-05/15/75	0	1	
NIOB0041	No	00200	LIGHT,INCIDENT,400-700NM,INTENSITY,UEINSTEINS/M2/S	05/15/75-05/15/75	0	1	
NIOB0005	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/23/82-06/23/82	0	1	
NIOB0015	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/06/82-04/06/82	0	1	
NIOB0031	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/23/82-06/23/82	0	1	
NIOB0001	No	00300	OXYGEN, DISSOLVED MG/L	10/04/88-10/14/88	0	3	
NIOB0002	Yes	00300	OXYGEN, DISSOLVED MG/L	09/23/85-08/31/89	3	17	
NIOB0003	No	00300	OXYGEN, DISSOLVED MG/L	07/17/91-07/17/91	0	2	
NIOB0004	No	00300	OXYGEN, DISSOLVED MG/L	06/18/87-06/18/87	0	1	
NIOB0005	No	00300	OXYGEN, DISSOLVED MG/L	05/16/68-09/18/89	21	153	A
NIOB0006	No	00300	OXYGEN, DISSOLVED MG/L	06/18/87-06/18/87	0	1	
NIOB0007	No	00300	OXYGEN, DISSOLVED MG/L	06/18/87-06/16/92	4	3	
NIOB0008	No	00300	OXYGEN, DISSOLVED MG/L	05/15/68-01/10/84	15	27	
NIOB0009	No	00300	OXYGEN, DISSOLVED MG/L	06/18/87-07/23/93	6	8	
NIOB0010	No	00300	OXYGEN, DISSOLVED MG/L	02/21/84-04/12/93	9	92	
NIOB0012	No	00300	OXYGEN, DISSOLVED MG/L	07/24/79-07/12/83	3	32	
NIOB0015	No	00300	OXYGEN, DISSOLVED MG/L	07/24/79-07/12/83	3	35	
NIOB0016	No	00300	OXYGEN, DISSOLVED MG/L	07/31/69-10/23/85	16	23	
NIOB0017	Yes	00300	OXYGEN, DISSOLVED MG/L	06/25/87-06/25/87	0	1	
NIOB0018	No	00300	OXYGEN, DISSOLVED MG/L	04/24/80-07/13/83	3	27	
NIOB0023	No	00300	OXYGEN, DISSOLVED MG/L	07/16/91-07/28/92	1	4	
NIOB0024	No	00300	OXYGEN, DISSOLVED MG/L	05/15/68-11/16/77	9	35	
NIOB0026	Yes	00300	OXYGEN, DISSOLVED MG/L	06/25/87-06/25/87	0	1	
NIOB0027	Yes	00300	OXYGEN, DISSOLVED MG/L	05/15/68-11/16/77	9	25	
NIOB0029	No	00300	OXYGEN, DISSOLVED MG/L	06/24/87-07/08/93	6	8	
NIOB0030	Yes	00300	OXYGEN, DISSOLVED MG/L	06/25/87-06/25/87	0	1	
NIOB0031	Yes	00300	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	24	173	T,A,S
NIOB0033	No	00300	OXYGEN, DISSOLVED MG/L	06/24/87-06/24/87	0	1	
NIOB0035	No	00300	OXYGEN, DISSOLVED MG/L	05/15/68-11/16/77	9	36	
NIOB0036	Yes	00300	OXYGEN, DISSOLVED MG/L	12/11/73-10/29/75	1	9	
NIOB0038	Yes	00300	OXYGEN, DISSOLVED MG/L	10/04/76-10/11/77	1	35	
NIOB0039	No	00300	OXYGEN, DISSOLVED MG/L	10/04/76-10/11/77	1	37	
NIOB0040	No	00300	OXYGEN, DISSOLVED MG/L	10/04/76-10/11/77	1	37	
NIOB0041	No	00300	OXYGEN, DISSOLVED MG/L	05/15/68-10/23/75	7	19	
NIOB0042	No	00300	OXYGEN, DISSOLVED MG/L	10/04/76-10/11/77	1	35	
NIOB0043	No	00300	OXYGEN, DISSOLVED MG/L	10/04/76-10/11/77	1	37	
NIOB0044	No	00300	OXYGEN, DISSOLVED MG/L	10/04/76-10/11/77	1	36	
NIOB0045	No	00300	OXYGEN, DISSOLVED MG/L	10/04/76-10/11/77	1	37	
NIOB0046	No	00300	OXYGEN, DISSOLVED MG/L	10/04/76-10/11/77	1	36	
NIOB0034	No	00304	BOD, 2 DAY, 20 DEG C MG/L	10/08/77-10/11/77	0	4	
NIOB0037	No	00304	BOD, 2 DAY, 20 DEG C MG/L	10/08/77-10/11/77	0	4	
NIOB0038	Yes	00304	BOD, 2 DAY, 20 DEG C MG/L	10/01/76-10/11/77	1	10	
NIOB0039	No	00304	BOD, 2 DAY, 20 DEG C MG/L	10/02/76-10/11/77	1	9	
NIOB0040	No	00304	BOD, 2 DAY, 20 DEG C MG/L	10/01/76-10/11/77	1	10	
NIOB0042	No	00304	BOD, 2 DAY, 20 DEG C MG/L	10/01/76-10/11/77	1	10	

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

Station/Parameter Period of Record Tabulation
From 06/09/47 To 09/21/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
NIOB0043	No	00304	BOD, 2 DAY, 20 DEG C MG/L	10/01/76-10/11/77	1	10	
NIOB0044	No	00304	BOD, 2 DAY, 20 DEG C MG/L	10/01/76-10/11/77	1	10	
NIOB0045	No	00304	BOD, 2 DAY, 20 DEG C MG/L	10/01/76-10/11/77	1	10	
NIOB0046	No	00304	BOD, 2 DAY, 20 DEG C MG/L	10/02/76-10/11/77	1	10	
NIOB0047	No	00304	BOD, 2 DAY, 20 DEG C MG/L	10/01/76-10/05/76	0	5	
NIOB0048	No	00304	BOD, 2 DAY, 20 DEG C MG/L	10/02/76-10/06/76	0	5	
NIOB0049	No	00304	BOD, 2 DAY, 20 DEG C MG/L	10/01/76-10/11/77	1	10	
NIOB0005	No	00310	BOD, 5 DAY, 20 DEG C MG/L	12/14/77-09/13/83	5	56	
NIOB0008	No	00310	BOD, 5 DAY, 20 DEG C MG/L	10/03/73-11/16/77	4	8	
NIOB0012	No	00310	BOD, 5 DAY, 20 DEG C MG/L	07/24/79-07/12/83	3	42	
NIOB0013	No	00310	BOD, 5 DAY, 20 DEG C MG/L	05/13/82-06/27/83	1	14	
NIOB0014	No	00310	BOD, 5 DAY, 20 DEG C MG/L	05/13/82-06/27/83	1	21	
NIOB0015	No	00310	BOD, 5 DAY, 20 DEG C MG/L	07/24/79-07/12/83	3	46	
NIOB0016	No	00310	BOD, 5 DAY, 20 DEG C MG/L	04/25/73-09/19/73	0	5	
NIOB0018	No	00310	BOD, 5 DAY, 20 DEG C MG/L	04/24/80-07/13/83	3	38	
NIOB0019	No	00310	BOD, 5 DAY, 20 DEG C MG/L	05/13/82-06/27/83	1	20	
NIOB0024	No	00310	BOD, 5 DAY, 20 DEG C MG/L	03/24/76-11/16/77	1	15	
NIOB0027	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	03/24/76-11/16/77	1	7	
NIOB0031	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	12/14/77-09/13/83	5	53	
NIOB0034	No	00310	BOD, 5 DAY, 20 DEG C MG/L	10/08/77-10/11/77	0	4	
NIOB0035	No	00310	BOD, 5 DAY, 20 DEG C MG/L	05/07/69-11/16/77	8	17	
NIOB0037	No	00310	BOD, 5 DAY, 20 DEG C MG/L	10/08/77-10/11/77	0	4	
NIOB0038	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	10/01/76-10/11/77	1	10	
NIOB0039	No	00310	BOD, 5 DAY, 20 DEG C MG/L	10/02/66-10/11/77	11	10	
NIOB0040	No	00310	BOD, 5 DAY, 20 DEG C MG/L	10/01/76-10/11/77	1	10	
NIOB0041	No	00310	BOD, 5 DAY, 20 DEG C MG/L	10/02/73-10/02/73	0	1	
NIOB0042	No	00310	BOD, 5 DAY, 20 DEG C MG/L	10/01/76-10/11/77	1	10	
NIOB0043	No	00310	BOD, 5 DAY, 20 DEG C MG/L	10/01/76-10/11/77	1	10	
NIOB0044	No	00310	BOD, 5 DAY, 20 DEG C MG/L	10/01/76-10/11/77	1	10	
NIOB0045	No	00310	BOD, 5 DAY, 20 DEG C MG/L	10/01/76-10/11/77	1	10	
NIOB0046	No	00310	BOD, 5 DAY, 20 DEG C MG/L	10/02/76-10/11/77	1	10	
NIOB0047	No	00310	BOD, 5 DAY, 20 DEG C MG/L	10/01/76-10/05/76	0	5	
NIOB0048	No	00310	BOD, 5 DAY, 20 DEG C MG/L	10/02/76-10/06/76	0	5	
NIOB0049	No	00310	BOD, 5 DAY, 20 DEG C MG/L	10/01/76-10/11/77	1	10	
NIOB0005	No	00320	BOD, ULTIMATE 1ST STAGE, 20 DEG C MG/L	05/15/75-05/15/75	0	1	
NIOB0027	Yes	00320	BOD, ULTIMATE 1ST STAGE, 20 DEG C MG/L	05/15/75-05/15/75	0	1	
NIOB0036	Yes	00320	BOD, ULTIMATE 1ST STAGE, 20 DEG C MG/L	05/15/75-05/15/75	0	1	
NIOB0041	No	00320	BOD, ULTIMATE 1ST STAGE, 20 DEG C MG/L	05/15/75-05/15/75	0	1	
NIOB0005	No	00335	COD, .025N K2CR2O7 MG/L	05/30/79-03/30/87	7	29	
NIOB0008	No	00335	COD, .025N K2CR2O7 MG/L	01/10/84-01/10/84	0	1	
NIOB0010	No	00335	COD, .025N K2CR2O7 MG/L	02/21/84-03/30/87	3	21	
NIOB0012	No	00335	COD, .025N K2CR2O7 MG/L	07/24/79-07/12/83	3	31	
NIOB0015	No	00335	COD, .025N K2CR2O7 MG/L	07/24/79-07/12/83	3	34	
NIOB0018	No	00335	COD, .025N K2CR2O7 MG/L	04/24/80-07/13/83	3	26	
NIOB0031	Yes	00335	COD, .025N K2CR2O7 MG/L	05/30/79-03/30/87	7	32	
NIOB0005	No	00340	COD, .25N K2CR2O7 MG/L	12/14/77-09/18/89	11	106	
NIOB0008	No	00340	COD, .25N K2CR2O7 MG/L	03/24/76-11/16/77	1	7	
NIOB0010	No	00340	COD, .25N K2CR2O7 MG/L	08/21/84-04/12/93	8	72	
NIOB0012	No	00340	COD, .25N K2CR2O7 MG/L	02/08/83-02/08/83	0	1	
NIOB0018	No	00340	COD, .25N K2CR2O7 MG/L	10/06/82-05/12/83	0	3	
NIOB0024	No	00340	COD, .25N K2CR2O7 MG/L	03/24/76-11/16/77	1	15	
NIOB0027	Yes	00340	COD, .25N K2CR2O7 MG/L	03/24/76-11/16/77	1	7	
NIOB0031	Yes	00340	COD, .25N K2CR2O7 MG/L	12/14/77-04/21/93	15	138	
NIOB0034	No	00340	COD, .25N K2CR2O7 MG/L	10/08/77-10/11/77	0	4	
NIOB0035	No	00340	COD, .25N K2CR2O7 MG/L	03/24/76-11/16/77	1	15	
NIOB0037	No	00340	COD, .25N K2CR2O7 MG/L	10/08/77-10/11/77	0	4	
NIOB0038	Yes	00340	COD, .25N K2CR2O7 MG/L	10/01/76-10/11/77	1	10	
NIOB0039	No	00340	COD, .25N K2CR2O7 MG/L	10/02/66-10/11/77	11	10	
NIOB0040	No	00340	COD, .25N K2CR2O7 MG/L	10/01/76-10/11/77	1	10	
NIOB0042	No	00340	COD, .25N K2CR2O7 MG/L	10/01/76-10/11/77	1	10	
NIOB0043	No	00340	COD, .25N K2CR2O7 MG/L	10/03/76-10/11/77	1	9	
NIOB0044	No	00340	COD, .25N K2CR2O7 MG/L	10/01/76-10/11/77	1	10	
NIOB0045	No	00340	COD, .25N K2CR2O7 MG/L	10/01/76-10/11/77	1	10	
NIOB0046	No	00340	COD, .25N K2CR2O7 MG/L	10/02/76-10/11/77	1	10	
NIOB0047	No	00340	COD, .25N K2CR2O7 MG/L	10/01/76-10/05/76	0	5	
NIOB0048	No	00340	COD, .25N K2CR2O7 MG/L	10/02/76-10/06/76	0	5	
NIOB0049	No	00340	COD, .25N K2CR2O7 MG/L	10/01/76-10/11/77	1	10	
NIOB0001	No	00400	PH (STANDARD UNITS)	10/04/88-10/14/88	0	3	
NIOB0002	Yes	00400	PH (STANDARD UNITS)	09/23/85-08/31/89	3	17	
NIOB0005	No	00400	PH (STANDARD UNITS)	08/29/68-09/18/89	21	132	
NIOB0008	No	00400	PH (STANDARD UNITS)	05/08/69-11/16/77	8	23	
NIOB0010	No	00400	PH (STANDARD UNITS)	03/28/84-09/18/89	5	51	

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

Station/Parameter Period of Record Tabulation
From 06/09/47 To 09/21/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
NIOB0012	No	00400	PH (STANDARD UNITS)	07/24/79-07/12/83	3	32	
NIOB0015	No	00400	PH (STANDARD UNITS)	07/24/79-07/12/83	3	35	
NIOB0016	No	00400	PH (STANDARD UNITS)	06/29/48-09/09/93	45	238	T,A,S
NIOB0018	No	00400	PH (STANDARD UNITS)	05/29/80-07/13/83	3	28	
NIOB0021	No	00400	PH (STANDARD UNITS)	10/31/68-07/26/84	15	31	
NIOB0024	No	00400	PH (STANDARD UNITS)	08/29/68-11/16/77	9	33	
NIOB0025	No	00400	PH (STANDARD UNITS)	12/09/76-07/25/84	7	68	
NIOB0027	Yes	00400	PH (STANDARD UNITS)	08/29/68-11/16/77	9	23	
NIOB0028	Yes	00400	PH (STANDARD UNITS)	09/28/60-09/22/83	22	154	T,A,S
NIOB0031	Yes	00400	PH (STANDARD UNITS)	08/29/68-09/18/89	21	120	
NIOB0032	Yes	00400	PH (STANDARD UNITS)	05/04/82-09/09/93	11	132	
NIOB0035	No	00400	PH (STANDARD UNITS)	08/29/68-11/16/77	9	33	
NIOB0036	Yes	00400	PH (STANDARD UNITS)	03/19/74-10/29/75	1	8	
NIOB0041	No	00400	PH (STANDARD UNITS)	08/29/68-10/23/75	7	17	
NIOB0001	No	00403	PH, LAB, STANDARD UNITS SU	10/04/88-10/14/88	0	3	
NIOB0002	Yes	00403	PH, LAB, STANDARD UNITS SU	09/23/85-08/31/89	3	17	
NIOB0005	No	00403	PH, LAB, STANDARD UNITS SU	08/23/83-09/18/89	6	66	
NIOB0008	No	00403	PH, LAB, STANDARD UNITS SU	01/10/84-01/10/84	0	1	
NIOB0010	No	00403	PH, LAB, STANDARD UNITS SU	02/21/84-04/12/93	9	90	
NIOB0012	No	00403	PH, LAB, STANDARD UNITS SU	04/23/80-04/23/80	0	1	
NIOB0013	No	00403	PH, LAB, STANDARD UNITS SU	05/13/82-06/27/83	1	29	
NIOB0014	No	00403	PH, LAB, STANDARD UNITS SU	05/13/82-06/27/83	1	45	
NIOB0015	No	00403	PH, LAB, STANDARD UNITS SU	04/23/80-04/23/80	0	1	
NIOB0016	No	00403	PH, LAB, STANDARD UNITS SU	11/20/80-09/09/93	12	152	A
NIOB0018	No	00403	PH, LAB, STANDARD UNITS SU	04/24/80-04/24/80	0	1	
NIOB0019	No	00403	PH, LAB, STANDARD UNITS SU	05/13/82-06/27/83	1	32	
NIOB0021	No	00403	PH, LAB, STANDARD UNITS SU	10/23/80-07/26/84	3	12	
NIOB0025	No	00403	PH, LAB, STANDARD UNITS SU	10/22/80-07/25/84	3	20	
NIOB0028	Yes	00403	PH, LAB, STANDARD UNITS SU	10/20/80-09/22/83	2	34	
NIOB0031	Yes	00403	PH, LAB, STANDARD UNITS SU	09/13/83-04/21/93	9	103	
NIOB0032	Yes	00403	PH, LAB, STANDARD UNITS SU	05/04/82-09/09/93	11	132	
NIOB0034	No	00403	PH, LAB, STANDARD UNITS SU	10/08/77-10/11/77	0	4	
NIOB0037	No	00403	PH, LAB, STANDARD UNITS SU	10/08/77-10/11/77	0	4	
NIOB0038	Yes	00403	PH, LAB, STANDARD UNITS SU	10/01/76-10/11/77	1	10	
NIOB0039	No	00403	PH, LAB, STANDARD UNITS SU	10/02/66-10/11/77	11	9	
NIOB0040	No	00403	PH, LAB, STANDARD UNITS SU	10/01/76-10/11/77	1	10	
NIOB0042	No	00403	PH, LAB, STANDARD UNITS SU	10/01/76-10/11/77	1	10	
NIOB0043	No	00403	PH, LAB, STANDARD UNITS SU	10/01/76-10/11/77	1	8	
NIOB0044	No	00403	PH, LAB, STANDARD UNITS SU	10/01/76-10/11/77	1	10	
NIOB0045	No	00403	PH, LAB, STANDARD UNITS SU	10/01/76-10/11/77	1	8	
NIOB0046	No	00403	PH, LAB, STANDARD UNITS SU	10/02/76-10/11/77	1	10	
NIOB0047	No	00403	PH, LAB, STANDARD UNITS SU	10/01/76-10/05/76	0	5	
NIOB0048	No	00403	PH, LAB, STANDARD UNITS SU	10/02/76-10/06/76	0	5	
NIOB0049	No	00403	PH, LAB, STANDARD UNITS SU	10/01/76-10/11/77	1	10	
NIOB0016	No	00405	CARBON DIOXIDE (MG/L AS CO2)	05/16/73-09/26/79	6	26	
NIOB0021	No	00405	CARBON DIOXIDE (MG/L AS CO2)	04/24/73-09/26/79	6	9	
NIOB0025	No	00405	CARBON DIOXIDE (MG/L AS CO2)	12/09/76-09/26/79	2	24	
NIOB0028	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	07/31/74-09/18/78	4	49	
NIOB0001	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/04/88-10/14/88	0	3	
NIOB0005	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/16/68-10/29/75	7	21	
NIOB0008	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	7	20	
NIOB0016	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/29/48-09/04/80	32	60	S
NIOB0021	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/31/68-07/29/80	11	19	
NIOB0024	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	7	20	
NIOB0025	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/09/76-09/04/80	3	48	
NIOB0027	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	7	18	
NIOB0028	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/14/64-09/24/80	15	84	
NIOB0031	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/68-06/06/73	5	10	
NIOB0035	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	7	21	
NIOB0036	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/11/73-10/29/75	1	9	
NIOB0041	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/68-10/23/75	7	19	
NIOB0016	No	00417	ALKALINITY,FIXED ENDPOINT TITRATION, USGS LAB MG/L	02/05/87-02/05/87	0	1	
NIOB0032	Yes	00417	ALKALINITY,FIXED ENDPOINT TITRATION, USGS LAB MG/L	02/04/87-02/04/87	0	1	
NIOB0001	No	00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	10/04/88-10/14/88	0	3	
NIOB0016	No	00440	BICARBONATE ION (MG/L AS HCO3)	06/29/48-09/26/79	31	36	S
NIOB0021	No	00440	BICARBONATE ION (MG/L AS HCO3)	10/31/68-09/26/79	10	17	
NIOB0025	No	00440	BICARBONATE ION (MG/L AS HCO3)	12/09/76-09/26/79	2	24	
NIOB0028	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	09/28/60-09/18/78	17	95	
NIOB0016	No	00445	CARBONATE ION (MG/L AS CO3)	06/29/48-09/26/79	31	33	S
NIOB0021	No	00445	CARBONATE ION (MG/L AS CO3)	10/31/68-09/26/79	10	17	
NIOB0025	No	00445	CARBONATE ION (MG/L AS CO3)	12/09/76-09/26/79	2	24	
NIOB0028	Yes	00445	CARBONATE ION (MG/L AS CO3)	09/28/60-09/18/78	17	95	

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

Station/Parameter Period of Record Tabulation
From 06/09/47 To 09/21/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
NIOB0001	No	00447	CARBONATE,INCREMENTAL TITRATION,(CO3) FIELD MG/L	10/04/88-10/14/88	0	3	
NIOB0001	No	00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	10/04/88-10/14/88	0	3	
NIOB0001	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/04/88-10/14/88	0	3	
NIOB0001	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	10/04/88-10/14/88	0	3	
NIOB0005	No	00500	RESIDUE, TOTAL (MG/L)	05/16/68-05/08/69	0	3	
NIOB0008	No	00500	RESIDUE, TOTAL (MG/L)	05/15/68-05/08/69	0	3	
NIOB0024	No	00500	RESIDUE, TOTAL (MG/L)	05/15/68-05/08/69	0	3	
NIOB0027	Yes	00500	RESIDUE, TOTAL (MG/L)	05/15/68-08/29/68	0	2	
NIOB0031	Yes	00500	RESIDUE, TOTAL (MG/L)	05/15/68-05/08/69	0	3	
NIOB0035	No	00500	RESIDUE, TOTAL (MG/L)	05/15/68-05/07/69	0	3	
NIOB0041	No	00500	RESIDUE, TOTAL (MG/L)	05/15/68-08/29/68	0	2	
NIOB0005	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/08/69-05/08/69	0	1	
NIOB0008	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/08/69-05/08/69	0	1	
NIOB0016	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	06/29/48-05/17/52	3	10	
NIOB0024	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/29/68-05/08/69	0	2	
NIOB0027	Yes	00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/29/68-08/29/68	0	1	
NIOB0031	Yes	00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/29/68-05/08/69	0	2	
NIOB0035	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/29/68-05/07/69	0	2	
NIOB0041	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/29/68-08/29/68	0	1	
NIOB0005	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-05/30/79	10	20	
NIOB0008	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-11/16/77	9	25	
NIOB0012	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/24/79-07/12/83	3	32	
NIOB0015	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/24/79-07/12/83	3	34	
NIOB0018	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/80-07/13/83	3	29	
NIOB0024	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-11/16/77	9	32	
NIOB0027	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-11/16/77	9	23	
NIOB0031	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-05/30/79	10	10	
NIOB0035	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-11/16/77	9	32	
NIOB0036	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/11/73-10/29/75	1	9	
NIOB0041	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-10/23/75	7	17	
NIOB0005	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-09/18/89	11	137	A
NIOB0008	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/24/76-01/10/84	7	8	
NIOB0010	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/21/84-04/12/93	9	95	
NIOB0012	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/24/79-07/12/83	3	31	
NIOB0013	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/13/82-06/27/83	1	28	
NIOB0014	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/13/82-06/27/83	1	45	
NIOB0015	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/24/79-07/12/83	3	33	
NIOB0018	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/24/80-07/13/83	3	28	
NIOB0019	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/13/82-06/27/83	1	32	
NIOB0024	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/24/76-11/16/77	1	15	
NIOB0027	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/24/76-11/16/77	1	7	
NIOB0031	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-04/21/93	15	171	A
NIOB0034	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/08/77-10/11/77	0	4	
NIOB0035	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/24/76-11/16/77	1	15	
NIOB0037	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/08/77-10/11/77	0	4	
NIOB0038	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/01/76-10/11/77	1	11	
NIOB0039	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/02/66-10/11/77	11	10	
NIOB0040	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/01/76-10/11/77	1	10	
NIOB0042	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/01/76-10/11/77	1	10	
NIOB0043	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/03/76-10/11/77	1	9	
NIOB0044	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/01/76-10/11/77	1	10	
NIOB0045	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/02/76-10/11/77	1	9	
NIOB0046	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/02/76-10/11/77	1	10	
NIOB0047	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/01/76-10/05/76	0	5	
NIOB0048	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/02/76-10/06/76	0	5	
NIOB0049	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/01/76-10/11/77	1	10	
NIOB0002	Yes	00600	NITROGEN, TOTAL (MG/L AS N)	12/12/85-03/03/86	0	2	
NIOB0021	No	00600	NITROGEN, TOTAL (MG/L AS N)	10/31/68-10/31/68	0	1	
NIOB0002	Yes	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	12/12/85-03/03/86	0	2	
NIOB0016	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/25/73-09/19/73	0	5	
NIOB0016	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	11/15/90-09/09/93	2	30	
NIOB0021	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/10/82-08/10/82	0	1	
NIOB0028	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	02/09/81-02/09/81	0	1	
NIOB0032	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	11/15/90-09/09/93	2	31	
NIOB0001	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/04/88-10/14/88	0	3	
NIOB0002	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/23/85-08/31/89	3	17	
NIOB0005	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-09/18/89	11	137	A
NIOB0008	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/03/73-01/10/84	10	9	
NIOB0010	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/21/84-04/12/93	9	95	
NIOB0011	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/77-10/11/77	0	4	
NIOB0012	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/24/79-07/12/83	3	33	
NIOB0013	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/13/82-06/27/83	1	29	

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

Station/Parameter Period of Record Tabulation
From 06/09/47 To 09/21/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
NIOB0014	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/13/82-06/27/83	1	45	
NIOB0015	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/24/79-07/12/83	3	35	
NIOB0016	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/25/73-09/19/73	0	5	
NIOB0018	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/80-07/13/83	3	29	
NIOB0019	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/13/82-06/27/83	1	32	
NIOB0024	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/24/76-11/16/77	1	15	
NIOB0027	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/24/76-11/16/77	1	7	
NIOB0031	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-04/21/93	15	170	A
NIOB0034	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/08/77-10/11/77	0	4	
NIOB0035	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/02/73-11/16/77	4	16	
NIOB0037	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/08/77-10/11/77	0	4	
NIOB0038	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/01/76-10/11/77	1	11	
NIOB0039	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/02/66-10/11/77	11	10	
NIOB0040	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/01/76-10/11/77	1	10	
NIOB0041	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/02/73-10/02/73	0	1	
NIOB0042	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/01/76-10/11/77	1	10	
NIOB0043	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/03/76-10/11/77	1	9	
NIOB0044	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/01/76-10/11/77	1	10	
NIOB0045	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/01/76-10/11/77	1	10	
NIOB0046	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/02/76-10/11/77	1	10	
NIOB0047	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/01/76-10/05/76	0	5	
NIOB0048	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/02/76-10/06/76	0	5	
NIOB0049	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/02/76-10/11/77	1	9	
NIOB0016	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/15/90-09/09/93	2	30	
NIOB0032	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/15/90-09/09/93	2	31	
NIOB0021	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/05/69-05/04/71	1	4	
NIOB0016	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	11/15/90-09/09/93	2	30	
NIOB0032	Yes	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	11/15/90-09/09/93	2	31	
NIOB0001	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/04/88-10/14/88	0	3	
NIOB0002	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/23/85-08/31/89	3	17	
NIOB0005	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/25/80-08/25/80	0	1	
NIOB0010	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/14/91-04/12/93	2	27	
NIOB0011	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/07/77-10/11/77	0	4	
NIOB0015	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/07/81-07/27/81	0	2	
NIOB0016	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/25/73-09/19/73	0	5	
NIOB0018	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/08/81-04/08/81	0	1	
NIOB0031	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/25/80-04/21/93	12	39	
NIOB0034	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/08/77-10/11/77	0	4	
NIOB0037	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/08/77-10/11/77	0	4	
NIOB0038	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/01/76-10/11/77	1	10	
NIOB0039	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/02/66-10/11/77	11	10	
NIOB0040	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/01/76-10/11/77	1	10	
NIOB0042	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/02/76-10/11/77	1	7	
NIOB0043	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/03/76-10/11/77	1	7	
NIOB0044	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/01/76-10/11/77	1	9	
NIOB0045	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/01/76-10/11/77	1	8	
NIOB0046	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/02/76-10/11/77	1	10	
NIOB0047	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/01/76-10/05/76	0	5	
NIOB0048	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/02/76-10/06/76	0	5	
NIOB0049	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/01/76-10/11/77	1	10	
NIOB0001	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/04/88-10/14/88	0	3	
NIOB0002	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/23/85-08/31/89	3	17	
NIOB0005	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-09/18/89	21	157	A
NIOB0008	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-01/10/84	15	26	
NIOB0010	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/21/84-04/12/93	9	95	
NIOB0011	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/07/77-10/11/77	0	4	
NIOB0012	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/24/79-07/12/83	3	33	
NIOB0013	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/13/82-06/27/83	1	29	
NIOB0014	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/13/82-06/27/83	1	45	
NIOB0015	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/24/79-07/12/83	3	35	
NIOB0018	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/24/80-07/13/83	3	29	
NIOB0019	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/13/82-06/27/83	1	32	
NIOB0024	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-11/16/77	9	33	
NIOB0027	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-11/16/77	9	23	
NIOB0031	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-04/21/93	24	179	T,A,S
NIOB0034	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/08/77-10/11/77	0	4	
NIOB0035	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-11/16/77	9	34	
NIOB0036	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/11/73-10/29/75	1	9	
NIOB0037	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/08/77-10/11/77	0	4	
NIOB0038	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/76-10/11/77	1	10	
NIOB0039	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/02/66-10/11/77	11	9	
NIOB0040	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/76-10/11/77	1	9	

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

Station/Parameter Period of Record Tabulation
From 06/09/47 To 09/21/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
NIOB0041	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-10/23/75	7	18	
NIOB0042	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/76-10/11/77	1	10	
NIOB0043	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/03/76-10/11/77	1	9	
NIOB0044	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/76-10/11/77	1	10	
NIOB0045	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/76-10/11/77	1	10	
NIOB0046	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/02/76-10/11/77	1	10	
NIOB0047	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/76-10/05/76	0	5	
NIOB0048	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/02/76-10/06/76	0	5	
NIOB0049	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/76-10/11/77	1	10	
NIOB0016	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/25/73-09/09/93	20	207	A
NIOB0021	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/09/71-07/26/84	12	27	
NIOB0025	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/09/76-07/25/84	7	68	
NIOB0028	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/31/74-09/22/83	9	107	
NIOB0032	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/04/82-09/09/93	11	132	
NIOB0005	No	00640	NITROGEN, INORGANIC, TOTAL (MG/L AS N)	10/20/81-10/20/81	0	1	
NIOB0005	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/16/68-10/04/72	4	9	
NIOB0008	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/15/68-10/04/72	4	9	
NIOB0021	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/31/68-10/31/68	0	1	
NIOB0024	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/15/68-10/04/72	4	9	
NIOB0027	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/15/68-10/04/72	4	7	
NIOB0031	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/15/68-10/04/72	4	9	
NIOB0035	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/15/68-10/04/72	4	10	
NIOB0041	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/15/68-10/03/72	4	8	
NIOB0005	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	12/14/77-01/22/80	2	24	
NIOB0008	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	03/24/76-11/16/77	1	7	
NIOB0021	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	10/31/68-10/31/68	0	1	
NIOB0024	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	03/24/76-11/16/77	1	15	
NIOB0027	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	03/24/76-11/16/77	1	7	
NIOB0028	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/12/64-10/18/65	1	4	
NIOB0031	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	12/14/77-01/22/80	2	23	
NIOB0035	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	03/24/76-11/16/77	1	15	
NIOB0001	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/04/88-10/14/88	0	3	
NIOB0002	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/23/85-08/31/89	3	17	
NIOB0005	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/21/80-09/18/89	9	110	
NIOB0008	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/10/84-01/10/84	0	1	
NIOB0010	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/21/84-04/12/93	9	95	
NIOB0011	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/77-10/11/77	0	4	
NIOB0012	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/23/80-07/12/83	3	38	
NIOB0013	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/13/82-06/27/83	1	29	
NIOB0014	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/13/82-06/27/83	1	45	
NIOB0015	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/23/80-07/12/83	3	42	
NIOB0016	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/25/73-09/09/93	20	145	
NIOB0018	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/80-07/13/83	3	41	
NIOB0019	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/13/82-06/27/83	1	32	
NIOB0025	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/79-09/24/81	2	17	
NIOB0028	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/12/79-09/22/83	4	39	
NIOB0031	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/80-04/21/93	12	145	A
NIOB0032	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/82-09/09/93	11	121	
NIOB0034	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/08/77-10/11/77	0	4	
NIOB0037	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/08/77-10/11/77	0	4	
NIOB0038	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/01/76-10/11/77	1	10	
NIOB0039	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/02/66-10/11/77	11	10	
NIOB0040	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/01/76-10/11/77	1	10	
NIOB0042	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/01/76-10/11/77	1	10	
NIOB0043	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/03/76-10/11/77	1	9	
NIOB0044	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/01/76-10/11/77	1	10	
NIOB0045	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/01/76-10/11/77	1	10	
NIOB0046	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/02/76-10/11/77	1	9	
NIOB0047	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/01/76-10/05/76	0	5	
NIOB0048	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/02/76-10/06/76	0	5	
NIOB0049	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/01/76-10/11/77	1	10	
NIOB0016	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/25/73-09/09/93	20	192	A
NIOB0021	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/05/69-09/26/79	10	12	
NIOB0025	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	12/09/76-09/24/81	4	59	
NIOB0028	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/31/74-09/22/83	9	108	
NIOB0032	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/04/82-09/09/93	11	121	
NIOB0016	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/15/90-09/09/93	2	30	
NIOB0032	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/15/90-09/09/93	2	31	
NIOB0001	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/04/88-10/14/88	0	3	
NIOB0005	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/20/81-09/18/89	7	90	
NIOB0008	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/10/84-01/10/84	0	1	
NIOB0010	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/21/84-11/16/92	8	90	

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

Station/Parameter Period of Record Tabulation
From 06/09/47 To 09/21/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
NIOB0012	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	11/03/81-07/12/83	1	13	
NIOB0013	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/13/82-06/27/83	1	29	
NIOB0014	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/13/82-06/27/83	1	44	
NIOB0015	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	11/03/81-07/12/83	1	15	
NIOB0018	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	11/04/81-07/13/83	1	15	
NIOB0019	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/13/82-06/27/83	1	32	
NIOB0031	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/22/81-11/04/92	11	122	
NIOB0002	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	09/23/85-08/31/89	3	17	
NIOB0002	Yes	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	09/23/85-09/23/85	0	1	
NIOB0008	No	00700	ACIDS, TOTAL VOLATILE (MG/L AS ACETIC ACID)	12/10/73-12/10/73	0	1	
NIOB0027	Yes	00700	ACIDS, TOTAL VOLATILE (MG/L AS ACETIC ACID)	12/11/73-12/11/73	0	1	
NIOB0028	Yes	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	05/12/64-10/14/64	0	2	
NIOB0002	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/24/85-03/03/86	0	3	
NIOB0005	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/16/68-10/29/75	7	20	
NIOB0008	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	7	20	
NIOB0016	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/29/48-02/05/86	37	96	S
NIOB0021	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/31/68-11/16/82	14	27	
NIOB0024	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	7	20	
NIOB0025	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/09/76-11/16/82	5	63	
NIOB0027	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	7	18	
NIOB0028	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-04/06/83	22	149	T,S
NIOB0031	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/68-06/06/73	5	10	
NIOB0032	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/04/82-02/07/86	3	16	
NIOB0035	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	7	21	
NIOB0036	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/11/73-10/29/75	1	9	
NIOB0041	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/68-10/23/75	7	19	
NIOB0016	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/29/48-09/04/80	32	60	S
NIOB0021	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/31/68-07/29/80	11	19	
NIOB0025	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	12/09/76-09/04/80	3	48	
NIOB0028	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-09/24/80	19	115	
NIOB0001	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/04/88-10/14/88	0	3	
NIOB0002	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/23/85-08/31/89	3	17	
NIOB0005	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-09/18/89	21	154	A
NIOB0008	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-01/10/84	15	19	
NIOB0010	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/21/84-04/12/93	9	95	
NIOB0012	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/24/79-07/12/83	3	32	
NIOB0013	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/13/82-05/14/82	0	11	
NIOB0014	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/13/82-05/14/82	0	12	
NIOB0015	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/24/79-07/12/83	3	34	
NIOB0016	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/29/48-09/09/93	45	213	T,A,S
NIOB0018	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/24/80-07/13/83	3	28	
NIOB0019	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/13/82-05/14/82	0	11	
NIOB0021	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/68-07/26/84	15	32	
NIOB0024	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-10/29/75	7	18	
NIOB0025	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/09/76-07/25/84	7	68	
NIOB0027	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-10/29/75	7	16	
NIOB0028	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-09/22/83	22	154	T,A,S
NIOB0031	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-04/21/93	24	179	T,A,S
NIOB0032	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/04/82-09/09/93	11	132	
NIOB0035	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-10/29/75	7	19	
NIOB0036	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/11/73-10/29/75	1	9	
NIOB0041	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-10/23/75	7	17	
NIOB0001	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/04/88-10/14/88	0	3	
NIOB0002	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/23/85-08/31/89	3	17	
NIOB0005	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-09/18/89	21	152	A
NIOB0008	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-01/10/84	15	18	
NIOB0010	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/21/84-04/12/93	9	95	
NIOB0012	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/24/79-07/12/83	3	32	
NIOB0013	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/13/82-05/14/82	0	11	
NIOB0014	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/13/82-05/14/82	0	12	
NIOB0015	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/24/79-07/12/83	3	34	
NIOB0016	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/29/48-09/09/93	45	214	T,A,S
NIOB0018	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/24/80-07/13/83	3	28	
NIOB0019	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/13/82-05/14/82	0	11	
NIOB0021	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/68-07/26/84	15	32	
NIOB0024	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-10/29/75	7	18	
NIOB0025	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/09/76-07/25/84	7	68	
NIOB0027	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-10/29/75	7	16	
NIOB0028	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-09/22/83	22	154	T,A,S
NIOB0031	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-04/21/93	24	177	T,A,S
NIOB0032	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/04/82-09/09/93	11	132	
NIOB0035	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-10/29/75	7	19	

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

Station/Parameter Period of Record Tabulation
From 06/09/47 To 09/21/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
NIOB0036	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/11/73-10/29/75	1	9	
NIOB0041	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-10/23/75	7	17	
NIOB0001	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/04/88-10/14/88	0	3	
NIOB0002	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/23/85-08/31/89	3	17	
NIOB0005	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-09/18/89	21	154	A
NIOB0008	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-01/10/84	15	26	
NIOB0010	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	02/21/84-04/12/93	9	95	
NIOB0012	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/24/79-07/12/83	3	32	
NIOB0013	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/13/82-05/14/82	0	11	
NIOB0014	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/13/82-05/14/82	0	12	
NIOB0015	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/24/79-07/12/83	3	34	
NIOB0016	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/16/73-09/09/93	20	204	A
NIOB0018	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/24/80-07/13/83	3	28	
NIOB0019	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/13/82-05/14/82	0	11	
NIOB0021	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/68-07/26/84	15	32	
NIOB0024	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-11/16/77	9	33	
NIOB0025	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	12/09/76-07/25/84	7	68	
NIOB0027	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-11/16/77	9	23	
NIOB0028	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-09/22/83	22	154	T,A,S
NIOB0031	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-04/21/93	24	179	T,A,S
NIOB0032	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/04/82-09/09/93	11	132	
NIOB0035	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-11/16/77	9	34	
NIOB0036	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	12/11/73-10/29/75	1	9	
NIOB0041	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-10/23/75	7	18	
NIOB0002	Yes	00931	SODIUM ADSORPTION RATIO	10/24/85-03/03/86	0	3	
NIOB0005	No	00931	SODIUM ADSORPTION RATIO	05/16/68-05/15/75	6	17	
NIOB0008	No	00931	SODIUM ADSORPTION RATIO	05/15/68-05/15/75	7	17	
NIOB0016	No	00931	SODIUM ADSORPTION RATIO	06/29/48-02/05/86	37	96	S
NIOB0021	No	00931	SODIUM ADSORPTION RATIO	10/31/68-11/16/82	14	27	
NIOB0024	No	00931	SODIUM ADSORPTION RATIO	05/15/68-05/15/75	7	17	
NIOB0025	No	00931	SODIUM ADSORPTION RATIO	12/09/76-11/16/82	5	63	
NIOB0027	Yes	00931	SODIUM ADSORPTION RATIO	05/15/68-05/15/75	7	15	
NIOB0028	Yes	00931	SODIUM ADSORPTION RATIO	09/28/60-04/06/83	22	149	T,S
NIOB0031	Yes	00931	SODIUM ADSORPTION RATIO	05/15/68-10/04/72	4	9	
NIOB0032	Yes	00931	SODIUM ADSORPTION RATIO	05/04/82-02/07/86	3	16	
NIOB0035	No	00931	SODIUM ADSORPTION RATIO	05/15/68-05/15/75	7	18	
NIOB0036	Yes	00931	SODIUM ADSORPTION RATIO	12/11/73-05/15/75	1	7	
NIOB0041	No	00931	SODIUM ADSORPTION RATIO	05/15/68-05/15/75	7	16	
NIOB0002	Yes	00932	SODIUM, PERCENT	10/24/85-03/03/86	0	3	
NIOB0016	No	00932	SODIUM, PERCENT	06/29/48-02/05/86	37	96	S
NIOB0021	No	00932	SODIUM, PERCENT	10/31/68-11/16/82	14	26	
NIOB0025	No	00932	SODIUM, PERCENT	12/09/76-11/16/82	5	63	
NIOB0028	Yes	00932	SODIUM, PERCENT	10/14/64-04/06/83	18	104	
NIOB0032	Yes	00932	SODIUM, PERCENT	05/04/82-02/07/86	3	16	
NIOB0016	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	06/29/48-03/19/80	31	22	S
NIOB0021	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	06/05/79-09/26/79	0	3	
NIOB0025	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	06/19/79-02/27/80	0	11	
NIOB0028	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	05/10/79-02/06/80	0	9	
NIOB0001	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/04/88-10/14/88	0	3	
NIOB0002	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/23/85-08/31/89	3	17	
NIOB0005	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/68-10/29/75	7	19	
NIOB0008	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/68-10/29/75	7	19	
NIOB0016	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/73-09/09/93	20	205	A
NIOB0021	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/68-07/26/84	15	31	
NIOB0024	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/68-10/29/75	7	19	
NIOB0025	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/09/76-07/25/84	7	68	
NIOB0027	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/68-10/29/75	7	17	
NIOB0028	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-09/22/83	22	153	T,A,S
NIOB0031	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/68-10/04/72	4	9	
NIOB0032	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/04/82-09/09/93	11	132	
NIOB0035	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/68-10/29/75	7	20	
NIOB0036	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/11/73-10/29/75	1	9	
NIOB0041	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/68-10/23/75	7	18	
NIOB0001	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/04/88-10/14/88	0	3	
NIOB0002	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/23/85-08/31/89	3	17	
NIOB0005	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/16/68-09/18/89	21	158	A
NIOB0008	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-01/10/84	15	28	
NIOB0010	No	00940	CHLORIDE,TOTAL IN WATER MG/L	02/21/84-04/12/93	9	95	
NIOB0012	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/24/79-07/12/83	3	32	
NIOB0013	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/13/82-06/27/83	1	29	
NIOB0014	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/13/82-06/27/83	1	44	
NIOB0015	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/24/79-07/12/83	3	34	

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

Station/Parameter Period of Record Tabulation
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Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
NIOB0016	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/29/48-09/09/93	45	218	T,A,S
NIOB0018	No	00940	CHLORIDE,TOTAL IN WATER MG/L	04/24/80-07/13/83	3	29	
NIOB0019	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/13/82-06/27/83	1	32	
NIOB0021	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/31/68-07/26/84	15	32	
NIOB0024	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-11/16/77	9	35	
NIOB0025	No	00940	CHLORIDE,TOTAL IN WATER MG/L	12/09/76-07/25/84	7	68	
NIOB0027	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-11/16/77	9	25	
NIOB0028	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-09/22/83	22	153	T,A,S
NIOB0031	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	24	181	A,S
NIOB0032	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/82-09/09/93	11	131	
NIOB0035	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-11/16/77	9	36	
NIOB0036	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	12/11/73-10/29/75	1	9	
NIOB0041	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-10/23/75	7	19	
NIOB0001	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/04/88-10/14/88	0	3	
NIOB0002	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/23/85-08/31/89	3	17	
NIOB0005	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/16/68-10/29/75	7	21	
NIOB0008	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/68-10/29/75	7	19	
NIOB0016	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/29/48-09/09/93	45	215	T,A,S
NIOB0021	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/68-07/26/84	15	32	
NIOB0024	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/68-10/29/75	7	20	
NIOB0025	No	00945	SULFATE, TOTAL (MG/L AS SO4)	12/09/76-07/25/84	7	68	
NIOB0027	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/68-10/29/75	7	17	
NIOB0028	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-09/22/83	22	153	T,A,S
NIOB0031	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/68-06/06/73	5	10	
NIOB0032	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/82-09/09/93	11	131	
NIOB0035	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/68-10/29/75	7	20	
NIOB0036	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	12/11/73-10/29/75	1	9	
NIOB0041	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/68-10/23/75	7	19	
NIOB0001	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/04/88-10/14/88	0	3	
NIOB0002	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/14/88-08/31/89	0	6	
NIOB0005	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/16/68-05/08/69	0	3	
NIOB0008	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/15/68-12/10/73	5	4	
NIOB0016	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/29/48-09/09/93	45	214	T,A,S
NIOB0021	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/68-07/26/84	15	27	
NIOB0024	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/15/68-05/08/69	0	3	
NIOB0025	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/09/76-07/25/84	7	67	
NIOB0027	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/15/68-12/11/73	5	3	
NIOB0028	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-09/22/83	22	153	T,A,S
NIOB0031	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/15/68-05/08/69	0	3	
NIOB0032	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/04/82-09/09/93	11	132	
NIOB0035	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/15/68-05/07/69	0	3	
NIOB0041	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/15/68-08/29/68	0	2	
NIOB0001	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/04/88-10/14/88	0	3	
NIOB0002	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/14/88-08/31/89	0	6	
NIOB0016	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/29/48-09/09/93	45	212	T,A,S
NIOB0021	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/68-07/26/84	15	27	
NIOB0025	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	12/09/76-07/25/84	7	66	
NIOB0028	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-09/22/83	22	150	T,A,S
NIOB0032	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/04/82-09/09/93	11	132	
NIOB0016	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/08/73-08/08/73	0	1	
NIOB0028	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/12/64-10/14/64	0	2	
NIOB0001	No	01002	ARSENIC, TOTAL (UG/L AS AS)	10/04/88-10/14/88	0	3	
NIOB0002	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	10/24/85-08/31/89	3	16	
NIOB0010	No	01002	ARSENIC, TOTAL (UG/L AS AS)	11/04/91-11/04/91	0	1	
NIOB0028	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	05/12/64-10/14/64	0	2	
NIOB0001	No	01007	BARIUM, TOTAL (UG/L AS BA)	10/04/88-10/14/88	0	3	
NIOB0002	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	09/23/85-08/31/89	3	16	
NIOB0028	Yes	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/12/64-10/14/64	0	2	
NIOB0001	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/04/88-10/14/88	0	3	
NIOB0002	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	09/23/85-08/31/89	3	17	
NIOB0005	No	01020	BORON, DISSOLVED (UG/L AS B)	05/08/69-05/08/69	0	1	
NIOB0008	No	01020	BORON, DISSOLVED (UG/L AS B)	05/08/69-05/08/69	0	1	
NIOB0016	No	01020	BORON, DISSOLVED (UG/L AS B)	06/29/48-09/09/93	45	203	T,A,S
NIOB0021	No	01020	BORON, DISSOLVED (UG/L AS B)	10/31/68-05/21/75	6	12	
NIOB0024	No	01020	BORON, DISSOLVED (UG/L AS B)	08/29/68-05/08/69	0	2	
NIOB0025	No	01020	BORON, DISSOLVED (UG/L AS B)	12/09/76-09/24/81	4	57	
NIOB0027	Yes	01020	BORON, DISSOLVED (UG/L AS B)	08/29/68-08/29/68	0	1	
NIOB0028	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/28/60-09/22/83	22	153	T,A,S
NIOB0031	Yes	01020	BORON, DISSOLVED (UG/L AS B)	08/29/68-05/08/69	0	2	
NIOB0032	Yes	01020	BORON, DISSOLVED (UG/L AS B)	05/04/82-09/09/93	11	131	
NIOB0035	No	01020	BORON, DISSOLVED (UG/L AS B)	08/29/68-05/07/69	0	2	
NIOB0041	No	01020	BORON, DISSOLVED (UG/L AS B)	08/29/68-08/29/68	0	1	

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Station/Parameter Period of Record Tabulation
From 06/09/47 To 09/21/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
NIOB0016	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/08/73-08/08/73	0	1	
NIOB0028	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/14/64-10/06/66	1	2	
NIOB0001	No	01027	CADMIUM, TOTAL (UG/L AS CD)	10/04/88-10/14/88	0	3	
NIOB0002	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	09/23/85-08/31/89	3	17	
NIOB0010	No	01027	CADMIUM, TOTAL (UG/L AS CD)	11/04/91-11/04/91	0	1	
NIOB0002	Yes	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/15/88-08/15/88	0	1	
NIOB0016	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/08/73-08/08/73	0	1	
NIOB0028	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/12/64-10/06/66	2	3	
NIOB0031	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	02/13/90-02/13/90	0	1	
NIOB0028	Yes	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	10/14/64-10/14/64	0	1	
NIOB0001	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/04/88-10/14/88	0	3	
NIOB0002	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	09/23/85-08/31/89	3	17	
NIOB0010	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	11/04/91-11/04/91	0	1	
NIOB0028	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	05/12/64-10/14/64	0	2	
NIOB0016	No	01040	COPPER, DISSOLVED (UG/L AS CU)	08/08/73-08/08/73	0	1	
NIOB0028	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	05/12/64-10/06/66	2	3	
NIOB0001	No	01042	COPPER, TOTAL (UG/L AS CU)	10/04/88-10/14/88	0	3	
NIOB0002	Yes	01042	COPPER, TOTAL (UG/L AS CU)	09/23/85-08/31/89	3	17	
NIOB0005	No	01042	COPPER, TOTAL (UG/L AS CU)	05/16/68-05/08/69	0	2	
NIOB0008	No	01042	COPPER, TOTAL (UG/L AS CU)	05/08/69-05/08/69	0	1	
NIOB0010	No	01042	COPPER, TOTAL (UG/L AS CU)	11/04/91-11/04/91	0	1	
NIOB0024	No	01042	COPPER, TOTAL (UG/L AS CU)	08/29/68-05/08/69	0	2	
NIOB0027	Yes	01042	COPPER, TOTAL (UG/L AS CU)	05/15/68-08/29/68	0	2	
NIOB0031	Yes	01042	COPPER, TOTAL (UG/L AS CU)	05/15/68-05/08/69	0	3	
NIOB0035	No	01042	COPPER, TOTAL (UG/L AS CU)	08/29/68-05/07/69	0	2	
NIOB0038	Yes	01042	COPPER, TOTAL (UG/L AS CU)	10/11/77-10/11/77	0	1	
NIOB0041	No	01042	COPPER, TOTAL (UG/L AS CU)	05/15/68-08/29/68	0	2	
NIOB0005	No	01045	IRON, TOTAL (UG/L AS FE)	05/16/68-05/08/69	0	3	
NIOB0008	No	01045	IRON, TOTAL (UG/L AS FE)	05/15/68-05/08/69	0	3	
NIOB0024	No	01045	IRON, TOTAL (UG/L AS FE)	05/15/68-05/08/69	0	3	
NIOB0027	Yes	01045	IRON, TOTAL (UG/L AS FE)	05/15/68-08/29/68	0	2	
NIOB0031	Yes	01045	IRON, TOTAL (UG/L AS FE)	05/15/68-05/08/69	0	3	
NIOB0035	No	01045	IRON, TOTAL (UG/L AS FE)	05/15/68-05/07/69	0	3	
NIOB0041	No	01045	IRON, TOTAL (UG/L AS FE)	05/15/68-08/29/68	0	2	
NIOB0001	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/04/88-10/14/88	0	3	
NIOB0016	No	01046	IRON, DISSOLVED (UG/L AS FE)	06/29/48-09/09/93	45	208	T,A,S
NIOB0018	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/29/80-05/29/80	0	1	
NIOB0021	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/31/68-05/21/75	6	12	
NIOB0025	No	01046	IRON, DISSOLVED (UG/L AS FE)	12/09/76-09/24/81	4	58	
NIOB0028	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/28/60-09/22/83	22	154	T,A,S
NIOB0032	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	05/04/82-09/09/93	11	132	
NIOB0016	No	01049	LEAD, DISSOLVED (UG/L AS PB)	08/08/73-08/08/73	0	1	
NIOB0028	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	05/12/64-10/14/64	0	2	
NIOB0001	No	01051	LEAD, TOTAL (UG/L AS PB)	10/04/88-10/14/88	0	3	
NIOB0002	Yes	01051	LEAD, TOTAL (UG/L AS PB)	09/23/85-08/31/89	3	17	
NIOB0010	No	01051	LEAD, TOTAL (UG/L AS PB)	11/04/91-11/04/91	0	1	
NIOB0005	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/16/68-05/16/68	0	1	
NIOB0008	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/15/68-05/15/68	0	1	
NIOB0021	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/31/68-08/05/69	0	2	
NIOB0024	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/15/68-05/15/68	0	1	
NIOB0027	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	05/15/68-05/15/68	0	1	
NIOB0031	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	05/15/68-05/15/68	0	1	
NIOB0035	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/15/68-05/15/68	0	1	
NIOB0041	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/15/68-05/15/68	0	1	
NIOB0001	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/04/88-10/14/88	0	3	
NIOB0016	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/16/73-09/09/93	20	198	A
NIOB0021	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/20/70-05/21/75	5	10	
NIOB0025	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/09/76-09/24/81	4	58	
NIOB0028	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/13/60-09/22/83	22	142	T,S
NIOB0032	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/04/82-09/09/93	11	132	
NIOB0028	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/12/64-10/14/64	0	2	
NIOB0028	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/12/64-10/14/64	0	2	
NIOB0001	No	01067	NICKEL, TOTAL (UG/L AS NI)	10/04/88-10/14/88	0	3	
NIOB0002	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	09/23/85-08/31/89	3	17	
NIOB0016	No	01075	SILVER, DISSOLVED (UG/L AS AG)	08/08/73-08/08/73	0	1	
NIOB0028	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	05/12/64-10/14/64	0	2	
NIOB0031	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	02/13/90-02/13/90	0	1	
NIOB0010	No	01077	SILVER, TOTAL (UG/L AS AG)	11/04/91-11/04/91	0	1	
NIOB0028	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/12/64-10/14/64	0	2	
NIOB0028	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	05/12/64-10/14/64	0	2	
NIOB0016	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/08/73-08/08/73	0	1	
NIOB0028	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/12/64-10/06/66	2	3	

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Station/Parameter Period of Record Tabulation
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Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
NIOB0031	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	02/13/90-02/13/90	0	1	
NIOB0001	No	01092	ZINC, TOTAL (UG/L AS ZN)	10/04/88-10/14/88	0	3	
NIOB0002	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	09/23/85-08/31/89	3	17	
NIOB0005	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/16/68-05/08/69	0	3	
NIOB0008	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/15/68-05/08/69	0	3	
NIOB0010	No	01092	ZINC, TOTAL (UG/L AS ZN)	11/04/91-11/04/91	0	1	
NIOB0024	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/15/68-05/08/69	0	3	
NIOB0027	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	05/15/68-08/29/68	0	2	
NIOB0031	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	05/15/68-05/08/69	0	3	
NIOB0035	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/15/68-05/07/69	0	3	
NIOB0038	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	10/11/77-10/11/77	0	1	
NIOB0041	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/15/68-08/29/68	0	2	
NIOB0028	Yes	01100	TIN, DISSOLVED (UG/L AS SN)	05/12/64-10/14/64	0	2	
NIOB0001	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/04/88-10/14/88	0	3	
NIOB0028	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/14/64-10/14/64	0	1	
NIOB0028	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/12/64-05/12/64	0	1	
NIOB0028	Yes	01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/12/64-10/14/64	0	2	
NIOB0028	Yes	01135	RUBIDIUM, DISSOLVED (UG/L AS RB)	05/12/64-10/14/64	0	2	
NIOB0016	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/08/73-08/08/73	0	1	
NIOB0028	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/12/64-10/14/64	0	2	
NIOB0001	No	01147	SELENIUM, TOTAL (UG/L AS SE)	10/04/88-10/14/88	0	3	
NIOB0002	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	09/23/85-08/31/89	3	17	
NIOB0010	No	01147	SELENIUM, TOTAL (UG/L AS SE)	11/04/91-11/04/91	0	1	
NIOB0028	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/12/64-10/14/64	0	2	
NIOB0028	Yes	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	05/12/64-10/14/64	0	2	
NIOB0005	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	16	137	A
NIOB0008	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-01/10/84	10	9	
NIOB0010	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/21/84-04/12/93	9	94	
NIOB0012	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/24/79-07/12/83	3	32	
NIOB0015	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/24/79-07/12/83	3	34	
NIOB0016	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/18/73-07/18/73	0	1	
NIOB0018	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/24/80-07/13/83	3	29	
NIOB0024	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-11/16/77	4	17	
NIOB0027	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-11/16/77	4	8	
NIOB0031	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	19	171	A
NIOB0034	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/08/77-10/11/77	0	3	
NIOB0035	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-11/16/77	4	16	
NIOB0037	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/08/77-10/11/77	0	4	
NIOB0038	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/12/77	1	10	
NIOB0039	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/12/77	1	10	
NIOB0040	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/12/77	1	9	
NIOB0041	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-06/06/73	0	1	
NIOB0042	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/12/77	1	10	
NIOB0043	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/12/77	1	9	
NIOB0044	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/12/77	1	10	
NIOB0045	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/12/77	1	10	
NIOB0046	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/12/77	1	10	
NIOB0047	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/06/76	0	5	
NIOB0048	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/06/76	0	4	
NIOB0049	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/11/77	1	9	
NIOB0005	No	31648	E. COLI - MTEC-MF N0/100ML	06/23/87-09/18/89	2	28	
NIOB0010	No	31648	E. COLI - MTEC-MF N0/100ML	06/23/87-09/18/89	2	27	
NIOB0031	Yes	31648	E. COLI - MTEC-MF N0/100ML	06/23/87-09/18/89	2	28	
NIOB0005	No	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/25/83-09/18/89	5	68	
NIOB0008	No	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	01/10/84-01/10/84	0	1	
NIOB0010	No	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	02/21/84-04/12/93	9	93	
NIOB0012	No	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	07/24/79-07/12/83	3	32	
NIOB0015	No	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	07/24/79-07/12/83	3	34	
NIOB0016	No	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	07/18/73-07/18/73	0	1	
NIOB0018	No	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	04/24/80-07/13/83	3	29	
NIOB0031	Yes	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/25/83-04/21/93	9	105	
NIOB0043	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/09/77-10/09/77	0	1	
NIOB0044	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/08/77-10/11/77	0	4	
NIOB0002	Yes	39011	DISYSTON, FLAME PHOTOMETRIC,WATER SAMPLE (UG/L)	07/22/86-08/31/89	3	3	
NIOB0002	Yes	39023	PHORATE, FLAME IONIZATION, WATER SAMPLE (UG/L)	07/22/86-08/31/89	3	3	
NIOB0001	No	39024	PROPAZINE,COULSON CONDUCTIVITY,WATER SAMPL(UG/L)	10/04/88-10/04/88	0	1	
NIOB0002	Yes	39024	PROPAZINE,COULSON CONDUCTIVITY,WATER SAMPL(UG/L)	09/23/85-08/31/89	3	17	
NIOB0001	No	39030	TREFLAN, MICROCOULOMETRIC,WATER SAMPLE (UG/L)	10/04/88-10/04/88	0	1	
NIOB0002	Yes	39030	TREFLAN, MICROCOULOMETRIC,WATER SAMPLE (UG/L)	10/05/87-08/31/89	1	10	
NIOB0002	Yes	39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	3	17	
NIOB0002	Yes	39040	S,S,S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L	08/31/89-08/31/89	0	1	
NIOB0002	Yes	39051	METHOMYL IN WHOLE WATER (UG/L)	09/23/85-08/31/89	3	17	

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Station/Parameter Period of Record Tabulation
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Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
NIOB0002	Yes	39052	PROPHAM IN WHOLE WATER (UG/L)	09/23/85-08/31/89	3	17	
NIOB0001	No	39054	SIMETRYNE IN WHOLE WATER (UG/L)	10/04/88-10/04/88	0	1	
NIOB0002	Yes	39054	SIMETRYNE IN WHOLE WATER (UG/L)	09/23/85-08/31/89	3	17	
NIOB0001	No	39055	SIMAZINE IN WHOLE WATER (UG/L)	10/04/88-10/04/88	0	1	
NIOB0002	Yes	39055	SIMAZINE IN WHOLE WATER (UG/L)	09/23/85-08/31/89	3	17	
NIOB0001	No	39056	PROMETONE IN WHOLE WATER (UG/L)	10/04/88-10/04/88	0	1	
NIOB0002	Yes	39056	PROMETONE IN WHOLE WATER (UG/L)	09/23/85-08/31/89	3	17	
NIOB0001	No	39057	PROMETRYNE IN WHOLE WATER (UG/L)	10/04/88-10/04/88	0	1	
NIOB0002	Yes	39057	PROMETRYNE IN WHOLE WATER (UG/L)	09/23/85-08/31/89	3	17	
NIOB0001	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/04/88-10/14/88	0	3	
NIOB0002	Yes	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	09/23/85-08/31/89	3	17	
NIOB0002	Yes	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	3	17	
NIOB0002	Yes	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	09/23/85-08/31/89	3	17	
NIOB0002	Yes	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	09/23/85-08/31/89	3	17	
NIOB0002	Yes	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	3	17	
NIOB0002	Yes	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	3	17	
NIOB0002	Yes	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	3	17	
NIOB0002	Yes	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	3	17	
NIOB0002	Yes	39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	3	17	
NIOB0002	Yes	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	3	17	
NIOB0002	Yes	39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	3	17	
NIOB0002	Yes	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	3	17	
NIOB0002	Yes	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	3	17	
NIOB0002	Yes	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	3	17	
NIOB0002	Yes	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	3	17	
NIOB0002	Yes	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	3	17	
NIOB0002	Yes	39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	3	17	
NIOB0002	Yes	39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	3	17	
NIOB0002	Yes	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	3	17	
NIOB0002	Yes	39580	GUTHION IN WHOLE WATER SAMPLE (UG/L)	07/22/86-07/22/86	0	1	
NIOB0002	Yes	39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	3	17	
NIOB0001	No	39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE (UG/L)	10/04/88-10/04/88	0	1	
NIOB0002	Yes	39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	3	17	
NIOB0001	No	39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	10/04/88-10/04/88	0	1	
NIOB0002	Yes	39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	3	17	
NIOB0001	No	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	10/04/88-10/04/88	0	1	
NIOB0002	Yes	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	3	17	
NIOB0001	No	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	10/04/88-10/04/88	0	1	
NIOB0002	Yes	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	3	17	
NIOB0002	Yes	39750	SEVIN IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	3	17	
NIOB0002	Yes	39755	MIREX, TOTAL (UG/L)	09/23/85-08/31/89	3	17	
NIOB0001	No	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	10/04/88-10/04/88	0	1	
NIOB0002	Yes	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	3	17	
NIOB0002	Yes	39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	3	17	
NIOB0002	Yes	39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	3	17	
NIOB0018	No	50086	SETTLEABLE MATTER (ML/L/HR)	07/28/81-07/28/81	0	1	
NIOB0016	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/29/48-09/26/79	31	14	
NIOB0021	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/31/68-09/26/79	10	6	
NIOB0025	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/26/79-09/26/79	0	1	
NIOB0028	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-10/06/66	6	46	
NIOB0016	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/29/48-02/05/86	37	90	S
NIOB0021	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/31/68-11/16/82	14	21	
NIOB0025	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	12/09/76-11/16/82	5	57	
NIOB0028	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/31/74-04/06/83	8	97	
NIOB0032	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/04/82-02/07/86	3	16	
NIOB0016	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	06/29/48-03/10/83	34	88	S
NIOB0021	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	10/31/68-11/16/82	14	21	
NIOB0025	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	12/09/76-11/16/82	5	58	
NIOB0028	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	11/06/63-03/09/83	19	132	
NIOB0032	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	05/04/82-03/07/83	0	11	
NIOB0016	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/29/48-03/10/83	34	88	S
NIOB0021	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/31/68-11/16/82	14	21	
NIOB0025	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	12/09/76-11/16/82	5	57	
NIOB0028	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/06/63-03/09/83	19	130	
NIOB0032	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	05/04/82-03/07/83	0	11	
NIOB0002	Yes	70326	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .002MM	03/03/86-03/03/86	0	1	
NIOB0002	Yes	70327	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .004MM	03/03/86-03/03/86	0	1	
NIOB0002	Yes	70328	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .008MM	03/03/86-03/03/86	0	1	
NIOB0002	Yes	70329	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .016MM	03/03/86-03/03/86	0	1	
NIOB0002	Yes	70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/21/88-08/15/88	0	2	
NIOB0016	No	70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	06/12/49-08/07/52	3	8	
NIOB0022	No	70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	09/07/51-05/25/52	0	4	

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

Station/Parameter Period of Record Tabulation
From 06/09/47 To 09/21/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
NIOB0028	Yes	70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	02/06/53-06/09/67	14	4	
NIOB0002	Yes	70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/88-08/15/88	0	2	
NIOB0016	No	70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	04/06/49-08/07/52	3	28	
NIOB0022	No	70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	03/28/51-05/25/52	1	7	
NIOB0028	Yes	70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	08/28/50-06/16/67	16	7	
NIOB0032	Yes	70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	06/09/47-08/30/51	4	5	
NIOB0016	No	70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	04/06/49-08/07/52	3	12	
NIOB0022	No	70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	09/07/51-05/25/52	0	4	
NIOB0028	Yes	70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	09/20/55-09/20/55	0	1	
NIOB0032	Yes	70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	06/09/47-06/19/48	1	6	
NIOB0002	Yes	70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/88-08/15/88	0	2	
NIOB0016	No	70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	04/06/48-08/07/52	4	40	
NIOB0022	No	70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	03/28/51-05/25/52	1	7	
NIOB0028	Yes	70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	08/28/50-06/09/67	16	5	
NIOB0032	Yes	70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	06/09/47-08/30/51	4	28	
NIOB0016	No	70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	04/06/48-08/07/52	4	28	
NIOB0022	No	70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	09/07/51-05/25/52	0	4	
NIOB0028	Yes	70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	03/12/53-09/20/55	2	2	
NIOB0032	Yes	70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	06/09/47-10/07/49	2	26	
NIOB0002	Yes	70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/23/85-08/31/89	3	17	
NIOB0016	No	70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	04/06/48-09/15/52	4	83	
NIOB0022	No	70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	04/18/50-10/01/52	2	41	
NIOB0028	Yes	70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	04/13/50-09/28/67	17	121	
NIOB0032	Yes	70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	06/09/47-08/20/53	6	90	
NIOB0002	Yes	70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/23/85-08/31/89	3	17	
NIOB0016	No	70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	04/06/48-09/15/52	4	83	
NIOB0022	No	70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	04/18/50-10/01/52	2	41	
NIOB0028	Yes	70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	04/13/50-09/28/67	17	121	
NIOB0032	Yes	70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	06/09/47-08/20/53	6	90	
NIOB0002	Yes	70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	09/23/85-08/31/89	3	17	
NIOB0016	No	70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	04/06/48-09/15/52	4	74	
NIOB0022	No	70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	04/18/50-10/01/52	2	41	
NIOB0028	Yes	70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/08/50-09/28/67	17	120	
NIOB0032	Yes	70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/09/47-08/20/53	6	80	
NIOB0002	Yes	70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	09/23/85-08/31/89	3	17	
NIOB0016	No	70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	04/06/48-09/15/52	4	61	
NIOB0022	No	70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	04/18/50-10/01/52	2	41	
NIOB0028	Yes	70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/08/50-09/28/67	17	120	
NIOB0032	Yes	70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/09/47-08/20/53	6	71	
NIOB0002	Yes	70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	08/15/88-07/17/89	0	3	
NIOB0016	No	70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	11/21/50-08/07/52	1	6	
NIOB0022	No	70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	07/08/50-08/29/52	2	15	
NIOB0028	Yes	70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	09/21/50-08/16/67	16	45	
NIOB0032	Yes	70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	06/09/47-06/11/53	6	17	
NIOB0016	No	70347	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 2.00MM	05/17/52-05/17/52	0	1	
NIOB0022	No	70347	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 2.00MM	07/19/52-07/19/52	0	1	
NIOB0032	Yes	70347	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 2.00MM	09/12/52-09/12/52	0	1	
NIOB0005	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/20/80-04/29/80	0	3	
NIOB0011	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/07/77-10/11/77	0	4	
NIOB0012	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/24/79-04/23/80	0	6	
NIOB0015	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/24/79-04/23/80	0	6	
NIOB0018	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/24/80-04/24/80	0	1	
NIOB0031	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/20/80-04/29/80	0	3	
NIOB0034	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/08/77-10/11/77	0	4	
NIOB0037	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/08/77-10/11/77	0	4	
NIOB0038	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/07/77-10/11/77	0	5	
NIOB0039	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/07/77-10/11/77	0	5	
NIOB0040	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/07/77-10/11/77	0	5	
NIOB0042	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/07/77-10/11/77	0	5	
NIOB0043	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/07/77-10/11/77	0	5	
NIOB0044	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/07/77-10/11/77	0	5	
NIOB0045	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/07/77-10/11/77	0	5	
NIOB0046	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/07/77-10/11/77	0	5	
NIOB0049	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/07/77-10/10/77	0	4	
NIOB0021	No	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	08/10/82-08/10/82	0	1	
NIOB0028	Yes	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	02/09/81-02/09/81	0	1	
NIOB0016	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	06/29/48-05/17/52	3	10	
NIOB0021	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/31/68-05/04/71	2	5	
NIOB0028	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/28/60-10/06/66	6	46	
NIOB0028	Yes	71865	IODIDE (MG/L AS I)	05/12/64-10/14/64	0	2	
NIOB0002	Yes	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/23/85-03/03/86	0	4	
NIOB0016	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/10/79-02/05/86	6	54	

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

Station/Parameter Period of Record Tabulation
From 06/09/47 To 09/21/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
NIOB0025	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/10/79-09/24/81	2	17	
NIOB0028	Yes	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/12/79-09/22/83	4	39	
NIOB0032	Yes	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	05/04/82-02/07/86	3	33	
NIOB0002	Yes	71887	NITROGEN, TOTAL, AS NO3 - MG/L	12/12/85-03/03/86	0	2	
NIOB0016	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	08/08/73-08/08/73	0	1	
NIOB0001	No	71900	MERCURY, TOTAL (UG/L AS HG)	10/04/88-10/14/88	0	3	
NIOB0002	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	09/23/85-08/31/89	3	17	
NIOB0010	No	71900	MERCURY, TOTAL (UG/L AS HG)	11/04/91-11/04/91	0	1	
NIOB0016	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/08/73-08/08/73	0	1	
NIOB0003	No	72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	07/17/91-07/17/91	0	1	
NIOB0004	No	72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	06/18/87-06/18/87	0	1	
NIOB0006	No	72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	06/18/87-06/18/87	0	1	
NIOB0007	No	72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	06/18/87-06/16/92	4	2	
NIOB0009	No	72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	06/18/87-07/23/93	6	5	
NIOB0012	No	72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	06/15/83-06/15/83	0	1	
NIOB0015	No	72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	11/02/83-11/02/83	0	1	
NIOB0017	Yes	72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	06/25/87-06/25/87	0	1	
NIOB0018	No	72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	05/10/83-08/30/83	0	2	
NIOB0023	No	72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	07/16/91-07/28/92	1	2	
NIOB0026	Yes	72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	06/25/87-06/25/87	0	1	
NIOB0029	No	72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	06/24/87-07/08/93	6	5	
NIOB0030	Yes	72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	06/25/87-06/25/87	0	1	
NIOB0012	No	74069	FLOW, ESTIMATED STREAM CFS	06/15/83-11/07/83	0	2	
NIOB0015	No	74069	FLOW, ESTIMATED STREAM CFS	11/02/83-11/02/83	0	1	
NIOB0018	No	74069	FLOW, ESTIMATED STREAM CFS	05/10/83-08/30/83	0	2	
NIOB0001	No	77825	ALACHLOR WHOLE WATER,UG/L	10/04/88-10/04/88	0	1	
NIOB0002	Yes	77825	ALACHLOR WHOLE WATER,UG/L	10/05/87-08/31/89	1	10	
NIOB0002	Yes	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	09/23/85-08/31/89	3	17	
NIOB0012	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	09/22/81-07/12/83	1	11	
NIOB0015	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	09/22/81-07/12/83	1	12	
NIOB0016	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/06/48-09/15/52	4	83	
NIOB0018	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	09/23/81-07/13/83	1	12	
NIOB0022	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/18/50-10/01/52	2	41	
NIOB0028	Yes	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/13/50-09/28/67	17	141	
NIOB0032	Yes	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/09/47-08/20/53	6	90	
NIOB0012	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	09/22/81-07/12/83	1	11	
NIOB0015	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	09/22/81-07/12/83	1	12	
NIOB0016	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/06/48-09/15/52	4	83	
NIOB0018	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	09/23/81-07/13/83	1	12	
NIOB0022	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/18/50-10/01/52	2	41	
NIOB0028	Yes	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/13/50-09/28/67	17	141	
NIOB0032	Yes	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	06/09/47-08/20/53	6	90	
NIOB0016	No	80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	03/16/51-09/15/52	1	18	
NIOB0022	No	80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	10/18/50-09/25/52	1	24	
NIOB0028	Yes	80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	10/07/53-09/28/67	13	40	
NIOB0032	Yes	80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	11/21/50-09/11/53	2	24	
NIOB0016	No	80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	03/16/51-09/15/52	1	18	
NIOB0022	No	80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	10/18/50-09/25/52	1	24	
NIOB0028	Yes	80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	10/07/53-09/28/67	13	50	
NIOB0032	Yes	80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	11/21/50-09/11/53	2	25	
NIOB0016	No	80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	03/16/51-09/15/52	1	18	
NIOB0022	No	80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	10/18/50-09/25/52	1	24	
NIOB0028	Yes	80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	10/07/53-09/28/67	13	50	
NIOB0032	Yes	80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	11/21/50-09/11/53	2	25	
NIOB0016	No	80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	03/16/51-09/15/52	1	18	
NIOB0022	No	80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	10/18/50-09/25/52	1	24	
NIOB0028	Yes	80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	10/07/53-09/28/67	13	50	
NIOB0032	Yes	80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	11/21/50-09/11/53	2	25	
NIOB0016	No	80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	03/16/51-09/15/52	1	18	
NIOB0022	No	80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	10/18/50-09/25/52	1	23	
NIOB0028	Yes	80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	10/07/53-09/28/67	13	45	
NIOB0032	Yes	80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	12/08/50-09/11/53	2	21	
NIOB0002	Yes	80163	BED MATERIAL FALL DIAMETER, % FINER THAN 2.00MM	06/19/89-06/19/89	0	1	
NIOB0028	Yes	80163	BED MATERIAL FALL DIAMETER, % FINER THAN 2.00MM	11/06/63-09/08/66	2	17	
NIOB0002	Yes	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	10/24/85-08/31/89	3	12	
NIOB0002	Yes	80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	10/24/85-08/31/89	3	15	
NIOB0002	Yes	80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	10/24/85-08/31/89	3	16	
NIOB0002	Yes	80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	10/24/85-08/31/89	3	16	
NIOB0002	Yes	80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	10/24/85-08/31/89	3	16	
NIOB0002	Yes	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	10/24/85-08/31/89	3	11	
NIOB0016	No	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	03/16/51-09/15/52	1	18	
NIOB0022	No	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	10/18/50-09/25/52	1	15	

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

Station/Parameter Period of Record Tabulation
From 06/09/47 To 09/21/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
NIOB0028	Yes	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	12/11/56-02/22/67	10	5	
NIOB0032	Yes	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	12/20/50-06/09/53	2	13	
NIOB0002	Yes	80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	08/15/88-08/31/89	1	6	
NIOB0016	No	80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	03/16/51-09/15/52	1	18	
NIOB0022	No	80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	10/18/50-09/25/52	1	13	
NIOB0028	Yes	80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	12/11/56-12/14/66	10	18	
NIOB0032	Yes	80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	12/20/50-06/09/53	2	11	
NIOB0002	Yes	80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	10/14/88-10/14/88	0	1	
NIOB0028	Yes	80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	12/11/56-05/19/66	9	10	
NIOB0032	Yes	80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	10/11/52-10/11/52	0	1	
NIOB0028	Yes	80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	11/06/63-01/16/64	0	2	
NIOB0002	Yes	80203	TOTAL SEDIMENT SIEVE DIAMETER,% FINER THAN .062MM	09/23/85-10/14/88	3	2	
NIOB0002	Yes	80204	TOTAL SEDIMENT SIEVE DIAMETER,% FINER THAN .125MM	09/23/85-10/14/88	3	2	
NIOB0002	Yes	80205	TOTAL SEDIMENT SIEVE DIAMETER,% FINER THAN .250MM	09/23/85-10/14/88	3	2	
NIOB0002	Yes	80206	TOTAL SEDIMENT SIEVE DIAMETER,% FINER THAN .500MM	09/23/85-10/14/88	3	2	
NIOB0002	Yes	80207	TOTAL SEDIMENT SIEVE DIAMETER,% FINER THAN 1.00MM	09/23/85-10/14/88	3	2	
NIOB0002	Yes	80208	TOTAL SEDIMENT SIEVE DIAMETER,% FINER THAN 2.00MM	10/14/88-10/14/88	0	1	
NIOB0002	Yes	80209	TOTAL SEDIMENT SIEVE DIAMETER,% FINER THAN 4.00MM	10/14/88-10/14/88	0	1	
NIOB0002	Yes	80210	TOTAL SEDIMENT SIEVE DIAMETER,% FINER THAN 8.00MM	10/14/88-10/14/88	0	1	
NIOB0012	No	80250	SEDIMENT PARTICLE SIZE FRACT.<.0625MM % DRY WEIGHT	07/24/79-07/12/83	3	31	
NIOB0015	No	80250	SEDIMENT PARTICLE SIZE FRACT.<.0625MM % DRY WEIGHT	07/24/79-07/12/83	3	33	
NIOB0018	No	80250	SEDIMENT PARTICLE SIZE FRACT.<.0625MM % DRY WEIGHT	04/24/80-07/13/83	3	27	
NIOB0012	No	80253	SEDIMENT PRCTL.SIZE CLASS0.25-.50MMMED SAND %DRYWT	07/24/79-07/12/83	3	31	
NIOB0015	No	80253	SEDIMENT PRCTL.SIZE CLASS0.25-.50MMMED SAND %DRYWT	07/24/79-07/12/83	3	33	
NIOB0018	No	80253	SEDIMENT PRCTL.SIZE CLASS0.25-.50MMMED SAND %DRYWT	04/24/80-07/13/83	3	27	
NIOB0012	No	80256	SEDIMENT PRTCL.SIZE CLASS>2.0MM GRAVEL % DRY WT.	07/24/79-07/12/83	3	31	
NIOB0015	No	80256	SEDIMENT PRTCL.SIZE CLASS>2.0MM GRAVEL % DRY WT.	07/24/79-07/12/83	3	33	
NIOB0018	No	80256	SEDIMENT PRTCL.SIZE CLASS>2.0MM GRAVEL % DRY WT.	04/24/80-07/13/83	3	27	
NIOB0001	No	81757	CYANAZINE IN THE WHOLE WATER SAMPLE UG/L	10/04/88-10/04/88	0	1	
NIOB0002	Yes	81757	CYANAZINE IN THE WHOLE WATER SAMPLE UG/L	09/23/85-08/31/89	3	17	
NIOB0001	No	82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	10/04/88-10/04/88	0	1	
NIOB0002	Yes	82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	09/23/85-08/31/89	3	17	
NIOB0016	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	01/14/81-06/04/81	0	6	
NIOB0021	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	06/02/81-06/02/81	0	1	
NIOB0025	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	02/11/81-06/04/81	0	5	
NIOB0028	Yes	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	01/12/81-07/02/81	0	7	
NIOB0001	No	82183	2,4-DP (DICHLORPROP) TOTAL UG/L	10/04/88-10/04/88	0	1	
NIOB0002	Yes	82183	2,4-DP (DICHLORPROP) TOTAL UG/L	09/23/85-08/31/89	3	17	
NIOB0001	No	82184	AMETRYNE (GESAPAX OR EVIK) TOTAL UG/L	10/04/88-10/04/88	0	1	
NIOB0002	Yes	82184	AMETRYNE (GESAPAX OR EVIK) TOTAL UG/L	09/23/85-08/31/89	3	17	
NIOB0001	No	82611	METRIBUZIN, WHOLE WATER, TOTAL RECOVERABLE UG/L	10/04/88-10/04/88	0	1	
NIOB0002	Yes	82611	METRIBUZIN, WHOLE WATER, TOTAL RECOVERABLE UG/L	10/05/87-08/31/89	1	10	
NIOB0001	No	82612	METOLACHLOR, WHOLE WATER, TOTAL RECOVERABLE UG/L	10/04/88-10/04/88	0	1	
NIOB0002	Yes	82612	METOLACHLOR, WHOLE WATER, TOTAL RECOVERABLE UG/L	10/05/87-08/31/89	1	10	
NIOB0050	No	82655	FISH LENGTH, TOTAL CM	08/26/94-09/21/94	0	10	
NIOB0050	No	82656	FISH, WHOLE, WET WEIGHT GRAM	08/26/94-09/21/94	0	10	
NIOB0003	No	83501	SAMPLE, DURATION HOURS	07/17/91-07/17/91	0	2	
NIOB0004	No	83501	SAMPLE, DURATION HOURS	06/18/87-06/22/87	0	2	
NIOB0006	No	83501	SAMPLE, DURATION HOURS	06/18/87-06/18/87	0	2	
NIOB0007	No	83501	SAMPLE, DURATION HOURS	06/18/87-06/16/92	4	4	
NIOB0009	No	83501	SAMPLE, DURATION HOURS	06/18/87-07/23/93	6	9	
NIOB0012	No	83501	SAMPLE, DURATION HOURS	06/15/83-11/07/83	0	2	
NIOB0017	Yes	83501	SAMPLE, DURATION HOURS	06/23/87-06/25/87	0	2	
NIOB0018	No	83501	SAMPLE, DURATION HOURS	05/10/83-08/30/83	0	2	
NIOB0023	No	83501	SAMPLE, DURATION HOURS	07/16/91-07/28/92	1	4	
NIOB0026	Yes	83501	SAMPLE, DURATION HOURS	06/23/87-06/25/87	0	2	
NIOB0029	No	83501	SAMPLE, DURATION HOURS	06/24/87-07/08/93	6	9	
NIOB0030	Yes	83501	SAMPLE, DURATION HOURS	06/23/87-06/25/87	0	2	
NIOB0033	No	83501	SAMPLE, DURATION HOURS	06/24/87-06/24/87	0	2	
NIOB0007	No	83516	SUBSTRATE, BEDROCK, SOLID ROCK %	06/16/92-06/16/92	0	2	
NIOB0009	No	83516	SUBSTRATE, BEDROCK, SOLID ROCK %	06/18/87-06/18/87	0	1	
NIOB0026	Yes	83516	SUBSTRATE, BEDROCK, SOLID ROCK %	06/25/87-06/25/87	0	1	
NIOB0029	No	83516	SUBSTRATE, BEDROCK, SOLID ROCK %	06/24/87-07/08/93	6	3	
NIOB0023	No	83542	SUBSTRATE, COBBLE 256-64 MM %	07/16/91-07/16/91	0	2	
NIOB0030	Yes	83542	SUBSTRATE, COBBLE 256-64 MM %	06/23/87-06/25/87	0	2	
NIOB0003	No	83544	SUBSTRATE, GRAVEL 16-2 MM %	07/17/91-07/17/91	0	2	
NIOB0006	No	83544	SUBSTRATE, GRAVEL 16-2 MM %	06/18/87-06/18/87	0	1	
NIOB0007	No	83544	SUBSTRATE, GRAVEL 16-2 MM %	06/18/87-06/16/92	4	4	
NIOB0009	No	83544	SUBSTRATE, GRAVEL 16-2 MM %	06/18/87-07/23/93	6	5	
NIOB0012	No	83544	SUBSTRATE, GRAVEL 16-2 MM %	07/27/82-11/07/83	1	3	
NIOB0015	No	83544	SUBSTRATE, GRAVEL 16-2 MM %	07/27/82-11/02/83	1	2	
NIOB0018	No	83544	SUBSTRATE, GRAVEL 16-2 MM %	05/10/83-08/30/83	0	2	

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

Station/Parameter Period of Record Tabulation
From 06/09/47 To 09/21/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
NIOB0023	No	83544	SUBSTRATE, GRAVEL 16-2 MM %	07/16/91-07/28/92	1	4	
NIOB0026	Yes	83544	SUBSTRATE, GRAVEL 16-2 MM %	06/23/87-06/23/87	0	1	
NIOB0030	Yes	83544	SUBSTRATE, GRAVEL 16-2 MM %	06/23/87-06/25/87	0	2	
NIOB0003	No	83545	SUBSTRATE, SAND 2.000-0.062 MM %	07/17/91-07/17/91	0	2	
NIOB0004	No	83545	SUBSTRATE, SAND 2.000-0.062 MM %	06/18/87-06/22/87	0	2	
NIOB0006	No	83545	SUBSTRATE, SAND 2.000-0.062 MM %	06/18/87-06/18/87	0	2	
NIOB0007	No	83545	SUBSTRATE, SAND 2.000-0.062 MM %	06/18/87-06/16/92	4	4	
NIOB0009	No	83545	SUBSTRATE, SAND 2.000-0.062 MM %	06/18/87-07/23/93	6	6	
NIOB0012	No	83545	SUBSTRATE, SAND 2.000-0.062 MM %	07/27/82-11/07/83	1	3	
NIOB0015	No	83545	SUBSTRATE, SAND 2.000-0.062 MM %	07/27/82-11/02/83	1	2	
NIOB0017	Yes	83545	SUBSTRATE, SAND 2.000-0.062 MM %	06/23/87-06/25/87	0	2	
NIOB0018	No	83545	SUBSTRATE, SAND 2.000-0.062 MM %	05/10/83-08/30/83	0	2	
NIOB0023	No	83545	SUBSTRATE, SAND 2.000-0.062 MM %	07/16/91-07/28/92	1	4	
NIOB0026	Yes	83545	SUBSTRATE, SAND 2.000-0.062 MM %	06/23/87-06/25/87	0	2	
NIOB0029	No	83545	SUBSTRATE, SAND 2.000-0.062 MM %	06/24/87-07/08/93	6	6	
NIOB0030	Yes	83545	SUBSTRATE, SAND 2.000-0.062 MM %	06/23/87-06/25/87	0	2	
NIOB0033	No	83545	SUBSTRATE, SAND 2.000-0.062 MM %	06/24/87-06/24/87	0	2	
NIOB0003	No	83546	SUBSTRATE, SILT 0.062-0.004 MM %	07/17/91-07/17/91	0	2	
NIOB0015	No	83546	SUBSTRATE, SILT 0.062-0.004 MM %	07/27/82-07/27/82	0	1	
NIOB0003	No	83547	SUBSTRATE,CLAY/FINE PART. ORG MATR .004-.00024MM,%	07/17/91-07/17/91	0	2	
NIOB0004	No	83548	SUBSTRATE,DETRITUS/COARSE PARTICULATE ORG MATTER,%	06/22/87-06/22/87	0	1	
NIOB0033	No	83548	SUBSTRATE,DETRITUS/COARSE PARTICULATE ORG MATTER,%	06/24/87-06/24/87	0	2	

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

Station-By-Station Results

Station Inventory for Station: NIOB0001

NPS Station ID: NIOB0001
LAT/LON: 42.793059/ -99.306392
Agency: 112WRD
Date Created: 12/30/89
Location: NIABRARA RIVER NR MARIAVILLE, NE
FIPS State/County: 31103 NEBRASKA/KEYA PAHA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 06463743
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10150004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10150004271400.00
RF3 Mile Point: 1.00
Distance from RF3: 0.36
On/Off RF3:
Description:

Parameter Inventory for Station: NIOB0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/04/88-10/14/88	3	12.	12.	14.	10.	4.	2.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/04/88-10/14/88	3	14.5	11.833	14.5	6.5	21.333	4.619	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	10/04/88-10/14/88	3	720.	717.667	725.	708.	76.333	8.737	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/04/88-10/14/88	3	232.	226.667	234.	214.	121.333	11.015	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	10/04/88-10/14/88	3	9.8	9.8	10.1	9.5	0.09	0.3	**	**	**	**
00400	PH (STANDARD UNITS)	10/04/88-10/14/88	3	7.89	7.953	8.25	7.72	0.073	0.271	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/04/88-10/14/88	3	7.89	7.902	8.25	7.72	0.077	0.278	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/04/88-10/14/88	3	0.013	0.013	0.019	0.006	0.	0.007	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/04/88-10/14/88	3	7.8	7.933	8.2	7.8	0.053	0.231	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/04/88-10/14/88	3	7.8	7.897	8.2	7.8	0.055	0.235	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/04/88-10/14/88	3	0.016	0.013	0.016	0.006	0.	0.006	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/04/88-10/14/88	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	10/04/88-10/14/88	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00447	CARBONATE,INCREMENTAL TITRATION,(CO3) FIELD MG/L	10/04/88-10/14/88	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	10/04/88-10/14/88	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/04/88-10/14/88	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	10/04/88-10/14/88	3	121.	112.667	131.	86.	558.333	23.629	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/04/88-10/14/88	3	0.01	0.02	0.04	0.01	0.	0.017	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/04/88-10/14/88	3	0.2	0.333	0.6	0.2	0.053	0.231	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/04/88-10/14/88	3	0.9	1.2	1.9	0.8	0.37	0.608	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/04/88-10/14/88	3	0.12	0.123	0.14	0.11	0.	0.015	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/04/88-10/14/88	3	4.	4.	4.8	3.2	0.64	0.8	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/04/88-10/14/88	3	30.	30.	30.	30.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/04/88-10/14/88	3	4.6	4.633	4.7	4.6	0.003	0.058	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/04/88-10/14/88	3	8.9	8.933	9.	8.9	0.003	0.058	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/04/88-10/14/88	3	5.8	5.767	5.9	5.6	0.023	0.153	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/04/88-10/14/88	3	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/04/88-10/14/88	3	8.	8.333	9.	8.	0.333	0.577	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/04/88-10/14/88	3	0.2	0.233	0.3	0.2	0.003	0.058	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/04/88-10/14/88	3	53.	52.667	54.	51.	2.333	1.528	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	10/04/88-10/14/88	3	5.	5.	5.	5.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	10/04/88-10/14/88	3 ##	50.	66.667	100.	50.	833.333	28.868	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/04/88-10/14/88	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/04/88-10/14/88	3 ##	0.5	0.667	1.	0.5	0.083	0.289	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/04/88-10/14/88	3	5.	4.	5.	2.	3.	1.732	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/04/88-10/14/88	3	5.	5.333	7.	4.	2.333	1.528	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/04/88-10/14/88	3	13.	17.667	28.	12.	80.333	8.963	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/04/88-10/14/88	3 ##	2.5	2.5	2.5	2.5	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: NIOB0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/04/88-10/14/88	3	3.	3.333	5.	2.	2.333	1.528	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	10/04/88-10/14/88	3	5.	5.333	9.	2.	12.333	3.512	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/04/88-10/14/88	3	20.	20.	20.	20.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/04/88-10/14/88	3	6400.	4933.333	6700.	1700.	7863333.333	2804.164	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	10/04/88-10/14/88	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39024	PROPAZINE,COULSON CONDUCTIVITY,WATER SAMPL(UG/L)	10/04/88-10/04/88	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39030	TREFLAN, MICROCOULOMETRIC,WATER SAMPLE (UG/L)	10/04/88-10/04/88	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39054	SIMETRYNE IN WHOLE WATER (UG/L)	10/04/88-10/04/88	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39055	SIMAZINE IN WHOLE WATER (UG/L)	10/04/88-10/04/88	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39056	PROMETONE IN WHOLE WATER (UG/L)	10/04/88-10/04/88	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39057	PROMETRYNE IN WHOLE WATER (UG/L)	10/04/88-10/04/88	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/04/88-10/14/88	3	99.	92.	107.	70.	379.	19.468	**	**	**	**
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE (UG/L)	10/04/88-10/04/88	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	10/04/88-10/04/88	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	10/04/88-10/04/88	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	10/04/88-10/04/88	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	10/04/88-10/04/88	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/04/88-10/14/88	3 ##	0.05	0.067	0.1	0.05	0.001	0.029	**	**	**	**
77825	ALACHLOR WHOLE WATER,UG/L	10/04/88-10/04/88	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81757	CYANAZINE IN THE WHOLE WATER SAMPLE UG/L	10/04/88-10/04/88	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	10/04/88-10/04/88	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	10/04/88-10/04/88	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82184	AMETRYNE (GESAPAX OR EVIK) TOTAL UG/L	10/04/88-10/04/88	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
82611	METRIBUZIN, WHOLE WATER, TOTAL RECOVERABLE UG/L	10/04/88-10/04/88	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
82612	METOLACHLOR, WHOLE WATER, TOTAL RECOVERABLE UG/L	10/04/88-10/04/88	1 ##	0.05	0.05	0.05	0.05	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: NIOB0001

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	3	0	0.00	3	0	0.00									
00400	PH	Other-Hi Lim.	9.	3	0	0.00	3	0	0.00									
		Other-Lo Lim.	6.5	3	0	0.00	3	0	0.00									
00403	PH, LAB	Other-Hi Lim.	9.	3	0	0.00	3	0	0.00									
		Other-Lo Lim.	6.5	3	0	0.00	3	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	3	0	0.00	3	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	3	0	0.00									
		Drinking Water	250.	3	0	0.00	3	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	0	0.00	3	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	3	0	0.00	3	0	0.00									
01002	ARSENIC, TOTAL	Fresh Acute	360.	3	0	0.00	3	0	0.00									
		Drinking Water	50.	3	0	0.00	3	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	3	0	0.00	3	0	0.00									
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	3	0	0.00	3	0	0.00									
		Drinking Water	4.	0 &	0	0.00												
01027	CADMIUM, TOTAL	Fresh Acute	3.9	3	0	0.00	3	0	0.00									
		Drinking Water	5.	3	0	0.00	3	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	3	0	0.00	3	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	3	0	0.00	3	0	0.00									
		Drinking Water	1300.	3	0	0.00	3	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	3	0	0.00	3	0	0.00									
		Drinking Water	15.	3	0	0.00	3	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	3	0	0.00	3	0	0.00									
		Drinking Water	100.	3	0	0.00	3	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	3	0	0.00	3	0	0.00									
		Drinking Water	5000.	3	0	0.00	3	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	3	0	0.00	3	0	0.00									
		Drinking Water	50.	3	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

EPA Water Quality Criteria Analysis for Station: NIOB0001

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
39055	SIMAZINE IN WHOLE WATER	Drinking Water	4.	1	0	0.00	1	0	0.00									
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE	Drinking Water	3.	1	0	0.00	1	0	0.00									
39720	PICLORAM IN WHOLE WATER SAMPLE	Drinking Water	500.	1	0	0.00	1	0	0.00									
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	1	0	0.00	1	0	0.00									
39760	SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	3	0	0.00	3	0	0.00									
		Drinking Water	2.	3	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: NIOB0002

NPS Station ID: NIOB0002
LAT/LON: 42.782226/ -99.334448
Agency: 112WRD
Date Created: 11/30/85
Location: NIOBRARA RIVER AT MARIAVILLE, NE
FIPS State/County: 31103 NEBRASKA/KEYA PAHA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 06463720
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10150004002
RF1 Mile Point: 13.860
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10150004000311.83
RF3 Mile Point: 11.83
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: NIOB0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/23/85-08/31/89	17	21.5	19.441	33.	0.	73.184	8.555	4.4	13.5	25.75	29.8
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/23/85-08/31/89	17	25.	20.471	36.	-13.	134.452	11.595	10.5	15.	30.	26.2
00025	BAROMETRIC PRESSURE (MM OF HG)	09/23/85-08/31/89	13	712.	712.538	724.	700.	39.436	6.28	702.4	708.5	717.	722.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/23/85-08/31/89	17	1020.	1139.824	2380.	740.	163669.529	404.561	776.8	894.5	1175.	1868.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/23/85-08/31/89	16	219.	222.5	245.	204.	169.067	13.003	206.8	211.	234.25	242.9
00300	OXYGEN, DISSOLVED MG/L	09/23/85-08/31/89	17	9.	9.371	12.2	7.9	1.383	1.176	8.14	8.65	9.85	11.96
00400	PH (STANDARD UNITS)	09/23/85-08/31/89	17	8.49	8.428	8.91	7.9	0.095	0.308	7.9	8.15	8.72	8.806
00400	CONVERTED PH (STANDARD UNITS)	09/23/85-08/31/89	17	8.49	8.323	8.91	7.9	0.107	0.327	7.9	8.15	8.72	8.806
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/23/85-08/31/89	17	0.003	0.005	0.013	0.001	0.	0.004	0.002	0.002	0.007	0.013
00403	PH, LAB, STANDARD UNITS SU	09/23/85-08/31/89	17	8.2	8.194	8.8	7.7	0.083	0.288	7.78	8.05	8.35	8.64
00403	CONVERTED PH, LAB, STANDARD UNITS	09/23/85-08/31/89	17	8.2	8.109	8.8	7.7	0.091	0.301	7.78	8.05	8.35	8.64
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/23/85-08/31/89	17	0.006	0.008	0.02	0.002	0.	0.005	0.002	0.004	0.009	0.017
00600	NITROGEN, TOTAL (MG/L AS N)	12/12/85-03/03/86	2	1.65	1.65	1.7	1.6	0.005	0.071	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	12/12/85-03/03/86	2	0.825	0.825	1.	0.65	0.061	0.247	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/23/85-08/31/89	17	0.03	0.034	0.08	0.005	0.001	0.024	0.005	0.02	0.05	0.072
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/23/85-08/31/89	17	0.7	0.741	1.4	0.2	0.131	0.362	0.28	0.35	1.05	1.24
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/23/85-08/31/89	17	0.3	0.359	0.9	0.05	0.088	0.296	0.05	0.05	0.6	0.82
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/23/85-08/31/89	17	0.16	0.16	0.42	0.01	0.008	0.088	0.05	0.115	0.2	0.26
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	09/23/85-08/31/89	17	3.	4.253	17.	1.7	12.794	3.577	2.02	2.45	5.45	8.28
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	09/23/85-09/23/85	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/24/85-03/03/86	3	97.	95.333	97.	92.	8.333	2.887	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/23/85-08/31/89	17	30.	29.647	32.	27.	2.493	1.579	27.8	28.	31.	32.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/23/85-08/31/89	17	4.	4.047	4.6	3.5	0.118	0.343	3.58	3.8	4.3	4.6
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/23/85-08/31/89	17	8.6	8.659	11.	7.9	0.535	0.731	7.98	8.1	8.95	9.64
00931	SODIUM ADSORPTION RATIO	10/24/85-03/03/86	3	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	10/24/85-03/03/86	3	16.	16.	17.	15.	1.	1.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/23/85-08/31/89	17	6.4	6.124	7.3	3.3	1.146	1.07	4.26	5.4	6.9	7.22
00940	CHLORIDE,TOTAL IN WATER MG/L	09/23/85-08/31/89	17	2.	1.588	2.	1.	0.257	0.507	1.	1.	2.	2.
00945	SULFATE, TOTAL (MG/L AS SO4)	09/23/85-08/31/89	17	7.	7.118	9.	5.	1.735	1.317	5.	6.5	8.	9.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/14/88-08/31/89	6	0.3	0.317	0.4	0.2	0.006	0.075	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/14/88-08/31/89	6	53.	53.167	54.	53.	0.167	0.408	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	10/24/85-08/31/89	16	6.	5.375	7.	0.	3.317	1.821	1.4	5.25	6.	7.
01007	BARIUM, TOTAL (UG/L AS BA)	09/23/85-08/31/89	16	150.	134.375	300.	0.	7572.917	87.023	35.	50.	200.	230.
01012	BERYLLIUM, TOTAL (UG/L AS BE)	09/23/85-08/31/89	17 ##	5.	5.294	10.	5.	1.471	1.213	5.	5.	5.	6.
01027	CADMIUM, TOTAL (UG/L AS CD)	09/23/85-08/31/89	17 ##	0.5	0.735	2.	0.5	0.16	0.4	0.5	0.5	1.	1.2
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/15/88-08/15/88	1	80020.	80020.	80020.	80020.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/23/85-08/31/89	17	4.	4.559	10.	0.5	5.871	2.423	1.7	3.5	5.	10.
01042	COPPER, TOTAL (UG/L AS CU)	09/23/85-08/31/89	17	6.	7.824	18.	3.	16.154	4.019	3.8	5.	11.5	13.2

** - 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 time series plot

Parameter Inventory for Station: NIOB0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01051	LEAD, TOTAL (UG/L AS PB)	09/23/85-08/31/89	17	3.	4.588	16.	2.	15.414	3.926	2.	2.5	4.5	13.6
01067	NICKEL, TOTAL (UG/L AS NI)	09/23/85-08/31/89	17	4.	4.765	11.	1.	5.941	2.437	1.8	3.5	6.	8.6
01092	ZINC, TOTAL (UG/L AS ZN)	09/23/85-08/31/89	17	20.	24.706	110.	5.	548.346	23.417	5.	20.	20.	54.
01147	SELENIUM, TOTAL (UG/L AS SE)	09/23/85-08/31/89	17 ##	0.5	0.706	2.	0.5	0.158	0.398	0.5	0.5	1.	1.2
39011	DISYSTON, FLAME PHOTOMETRIC,WATER SAMPLE (UG/L)	07/22/86-08/31/89	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39023	PHORATE, FLAME IONIZATION, WATER SAMPLE (UG/L)	07/22/86-08/31/89	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39024	PROPAZINE,COULSON CONDUCTIVITY,WATER SAMPL(UG/L)	09/23/85-08/31/89	17 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
39030	TREFLAN, MICROCOULOMETRIC,WATER SAMPLE (UG/L)	10/05/87-08/31/89	10 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	17 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
39040	S,S,S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L	08/31/89-08/31/89	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39051	METHOMYL IN WHOLE WATER (UG/L)	09/23/85-08/31/89	17 ##	0.25	0.691	2.5	0.25	0.356	0.596	0.25	0.25	1.	1.3
39052	PROPHAM IN WHOLE WATER (UG/L)	09/23/85-08/31/89	17 ##	0.25	0.691	2.5	0.25	0.356	0.596	0.25	0.25	1.	1.3
39054	SIMETRYNE IN WHOLE WATER (UG/L)	09/23/85-08/31/89	17 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
39055	SIMAZINE IN WHOLE WATER (UG/L)	09/23/85-08/31/89	17 ##	0.05	0.076	0.2	0.05	0.003	0.05	0.05	0.05	0.1	0.2
39056	PROMETONE IN WHOLE WATER (UG/L)	09/23/85-08/31/89	17 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
39057	PROMETRYNE IN WHOLE WATER (UG/L)	09/23/85-08/31/89	17 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
39250	NAPTHALENES, POLYCHLORINATED (UG/L)	09/23/85-08/31/89	17 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	17 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	09/23/85-08/31/89	17 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	09/23/85-08/31/89	17 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	17 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	17 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	17 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	17 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	17 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	17 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	17 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	17 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	17 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	17 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	17 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	17 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	17 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	17 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	17 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39580	GUTHION IN WHOLE WATER SAMPLE (UG/L)	07/22/86-07/22/86	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	17 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	17 ##	0.05	0.065	0.1	0.05	0.001	0.023	0.05	0.05	0.1	0.1
39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	17 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	17 ##	0.005	0.008	0.03	0.005	0.	0.007	0.005	0.005	0.008	0.022
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	17	0.02	0.024	0.08	0.005	0.	0.02	0.005	0.008	0.03	0.056
39750	SEVIN IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	17 ##	0.25	0.691	2.5	0.25	0.356	0.596	0.25	0.25	1.	1.3
39755	MIREX, TOTAL (UG/L)	09/23/85-08/31/89	17 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	17 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	17 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	09/23/85-08/31/89	17 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
70326	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .002MM	03/03/86-03/03/86	1	4.	4.	4.	4.	0.	0.	**	**	**	**
70327	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .004MM	03/03/86-03/03/86	1	6.	6.	6.	6.	0.	0.	**	**	**	**
70328	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .008MM	03/03/86-03/03/86	1	7.	7.	7.	7.	0.	0.	**	**	**	**
70329	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .016MM	03/03/86-03/03/86	1	9.	9.	9.	9.	0.	0.	**	**	**	**
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/21/88-08/15/88	2	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/88-08/15/88	2	11.5	11.5	14.	9.	12.5	3.536	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/88-08/15/88	2	15.5	15.5	16.	15.	0.5	0.707	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/23/85-08/31/89	17	20.	19.294	33.	7.	53.346	7.304	10.2	12.5	26.	29.
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/23/85-08/31/89	17	35.	35.765	54.	14.	178.816	13.372	15.6	26.5	49.	52.4
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	09/23/85-08/31/89	17	83.	78.588	99.	46.	282.632	16.812	46.8	62.5	92.	98.2
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	09/23/85-08/31/89	17	100.	99.353	100.	93.	3.243	1.801	96.2	100.	100.	100.
70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	08/15/88-07/17/89	3	100.	100.	100.	100.	0.	0.	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/23/85-03/03/86	4	0.565	0.7	1.3	0.37	0.17	0.412	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	12/12/85-03/03/86	2	7.3	7.3	7.5	7.1	0.08	0.283	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	09/23/85-08/31/89	17	0.1	0.121	0.5	0.05	0.013	0.112	0.05	0.05	0.15	0.26
77825	ALACHLOR WHOLE WATER,UG/L	10/05/87-08/31/89	10 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	09/23/85-08/31/89	17	520.	637.176	2360.	249.	247755.904	497.751	282.6	351.5	725.	1304.

** - 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: NIOB0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
80163	BED MATERIAL FALL DIAMETER, % FINER THAN 2.00MM	06/19/89-06/19/89	1	2.	2.	2.	2.	0.	0.	**	**	**	**
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	10/24/85-08/31/89	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	10/24/85-08/31/89	15	2.	3.067	20.	1.	22.781	4.773	1.	1.	3.	10.4
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	10/24/85-08/31/89	16	33.	36.625	60.	25.	108.383	10.411	25.7	28.25	43.5	55.8
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	10/24/85-08/31/89	16	94.	92.938	98.	86.	15.663	3.958	86.7	89.25	96.5	98.
80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	10/24/85-08/31/89	16	99.	98.688	100.	97.	0.763	0.873	97.7	98.	99.	100.
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	10/24/85-08/31/89	11	99.	99.455	100.	99.	0.273	0.522	99.	99.	100.	100.
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	08/15/88-08/31/89	6	100.	99.833	100.	99.	0.167	0.408	**	**	**	**
80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	10/14/88-10/14/88	1	100.	100.	100.	100.	0.	0.	**	**	**	**
80203	TOTAL SEDIMENT SIEVE DIAMETER,% FINER THAN .062MM	09/23/85-10/14/88	2	0.	0.	0.	0.	0.	0.	**	**	**	**
80204	TOTAL SEDIMENT SIEVE DIAMETER,% FINER THAN .125MM	09/23/85-10/14/88	2	2.	2.	2.	2.	0.	0.	**	**	**	**
80205	TOTAL SEDIMENT SIEVE DIAMETER,% FINER THAN .250MM	09/23/85-10/14/88	2	32.5	32.5	36.	29.	24.5	4.95	**	**	**	**
80206	TOTAL SEDIMENT SIEVE DIAMETER,% FINER THAN .500MM	09/23/85-10/14/88	2	93.5	93.5	96.	91.	12.5	3.536	**	**	**	**
80207	TOTAL SEDIMENT SIEVE DIAMETER,% FINER THAN 1.00MM	09/23/85-10/14/88	2	98.5	98.5	100.	97.	4.5	2.121	**	**	**	**
80208	TOTAL SEDIMENT SIEVE DIAMETER,% FINER THAN 2.00MM	10/14/88-10/14/88	1	99.	99.	99.	99.	0.	0.	**	**	**	**
80209	TOTAL SEDIMENT SIEVE DIAMETER,% FINER THAN 4.00MM	10/14/88-10/14/88	1	99.	99.	99.	99.	0.	0.	**	**	**	**
80210	TOTAL SEDIMENT SIEVE DIAMETER,% FINER THAN 8.00MM	10/14/88-10/14/88	1	100.	100.	100.	100.	0.	0.	**	**	**	**
81757	CYANAZINE IN THE WHOLE WATER SAMPLE UG/L	09/23/85-08/31/89	17 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	09/23/85-08/31/89	17 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	09/23/85-08/31/89	17 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
82184	AMETRYNE (GESAPAX OR EVIK) TOTAL UG/L	09/23/85-08/31/89	17 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
82611	METRIBUZIN, WHOLE WATER, TOTAL RECOVERABLE UG/L	10/05/87-08/31/89	10 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
82612	METOLACHLOR, WHOLE WATER, TOTAL RECOVERABLE UG/L	10/05/87-08/31/89	10 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05

** - 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: NIOB0002

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
00400	PH	Other-Hi Lim.	9.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
		Other-Lo Lim.	6.5	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
		Other-Lo Lim.	6.5	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	250.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	6	0	0.00	3	0	0.00				3	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	16	0	0.00	9	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	50.	16	0	0.00	9	0	0.00	1	0	0.00	6	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	16	0	0.00	10	0	0.00				6	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	4.	1 &	1	1.00				1	1	1.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	5.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	17	1	0.06	10	0	0.00	1	1	1.00	6	0	0.00			
		Drinking Water	1300.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	15.	17	1	0.06	10	0	0.00	1	1	1.00	6	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	100.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	5000.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	50.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39055	SIMAZINE IN WHOLE WATER	Drinking Water	4.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	17	0	0.00	10	0	0.00	1	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: NIOB0002

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	0.2	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	2.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39388	ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute	0.22	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	2.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	3.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	0.4	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	0.2	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE	Drinking Water	3.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39720	PICLORAM IN WHOLE WATER SAMPLE	Drinking Water	500.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39760	SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	2.	17	0	0.00	10	0	0.00	1	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 Inventory for Station: NIOB0003

NPS Station ID: NIOB0003
LAT/LON: 42.771392/ -99.354727
Agency: 21NEB001
Date Created: 01/25/92
Location: OAK CREEK
FIPS State/County: 31149 NEBRASKA/ROCK
Station Type: /TYPA/AMBNT/STREAM/BIO
STORET Station ID(s): NI3335
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id: NENI3-11100
Minor Basin:
ECO Region: 45G
RF1 Index: 10150004
RF1 Mile Point: 0.000
Distance from RF1: 3.00
On/Off RF1:
RF3 Index: 10150004000210.53
RF3 Mile Point: 10.53
Distance from RF3: 0.07
On/Off RF3:
Description:

Parameter Inventory for Station: NIOB0003

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th

******** No Parameter Data at this Station Suitable for Statistical Analysis ********

Station Inventory for Station: NIOB0004

NPS Station ID: NIOB0004
LAT/LON: 42.716948/ -99.414170
Agency: 21NEB001
Date Created: 05/07/88
Location: WILLOW CREEK
FIPS State/County: 31149 NEBRASKA/ROCK
Station Type: /TYPA/AMBNT/STREAM/BIO
STORET Station ID(s): NI3109
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id: NENI3-11200
Minor Basin:
ECO Region: 44G
RF1 Index: 10150004
RF1 Mile Point: 0.000
Distance from RF1: 3.00
On/Off RF1:
RF3 Index: 10150004000210.53
RF3 Mile Point: 10.53
Distance from RF3: 0.07
On/Off RF3:
Description:

Parameter Inventory for Station: NIOB0004

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th

******** No Parameter Data at this Station Suitable for Statistical Analysis ********

Station Inventory for Station: NIOB0005

NPS Station ID: NIOB0005
LAT/LON: 42.717253/ -99.583726
Agency: 21NEB001
Date Created: / /
Location: NIOBRARA RIVER S OF RIVERVIEW
FIPS State/County: 31149 NEBRASKA/ROCK
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 300963
RMI-Indexes: 1021500
Within Park Boundary: No
RMI-Miles: 1149.40
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 0
Water Body Id:
Minor Basin: NIOBRARA
ECO Region:
RF1 Index: 10150004002
RF1 Mile Point: 29.190
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10150004005400.00
RF3 Mile Point: 0.40
Distance from RF3: 0.22
On/Off RF3:
Description:
T32N R19W SEC 30 AB ROC COUNTY 1.5 MILES S OF RIVERVIEW 11-17-78 NW1/4 NE1/4 SEC.30 T32N R19W KEYA PAHA COUNTY
NO SAMPLES TAKEN: 82/01,83/11,83/12, 19W SEC30AB ROCK COUNTY 1.5 MILES S OF RIVERVIEW 1-15-77

Parameter Inventory for Station: NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-09/18/89	156	12.25	13.008	32.	-1.	106.9	10.339	0.	2.	23.	27.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/16/68-12/14/77	19	16.	12.916	33.	-32.	236.486	15.378	2.	-6.7	28.	33.
00030	LIGHT, INCIDENT, SUNLIGHT RADIATION INTENSITY	06/26/84-06/26/84	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00032	CLOUD COVER (PERCENT)	05/26/70-05/15/75	14	2.5	19.643	100.	0.	921.016	30.348	0.	0.	46.25	75.
00035	WIND VELOCITY (MILES PER HOUR)	05/15/75-05/15/75	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00057	FLOW, INDICATES IT HAS BEEN CHECKED	02/20/80-09/22/86	42	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060	FLOW, STREAM, MEAN DAILY CFS	05/16/68-09/22/86	101	1088.	1118.228	2260.	556.	96025.898	309.88	803.8	874.5	1253.	1506.6
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/16/68-12/14/77	22	16.	43.727	466.	4.	9226.494	96.055	9.3	11.75	37.5	72.9
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-09/18/89	157	225.	227.299	378.	47.	1036.532	32.195	199.8	210.	240.	260.
00100	TIME OF TRAVEL (HOURS)	05/15/75-05/15/75	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/23/82-06/23/82	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/16/68-09/18/89	153	10.	10.193	13.9	6.	4.032	2.008	7.9	8.35	12.15	12.9
00310	BOD, 5 DAY, 20 DEG C MG/L	12/14/77-09/13/83	56	1.95	2.334	8.7	0.2	2.47	1.572	0.7	1.2	3.2	4.39
00320	BOD, ULTIMATE 1ST STAGE, 20 DEG C MG/L	05/15/75-05/15/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	05/30/79-03/30/87	29	23.5	23.417	47.5	2.5	172.441	13.132	5.	13.65	33.	43.9
00340	COD, .25N K2CR2O7 MG/L	12/14/77-09/18/89	105	19.	30.662	248.	1.	1507.19	38.823	3.1	9.75	33.	73.4
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	131	8.1	8.111	9.2	7.2	0.103	0.321	7.7	8.	8.3	8.5
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	131	8.1	7.987	9.2	7.2	0.119	0.345	7.7	8.	8.3	8.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	131	0.008	0.01	0.063	0.001	0.	0.01	0.003	0.005	0.01	0.02
00403	PH, LAB, STANDARD UNITS SU	08/23/83-09/18/89	66	8.	8.05	8.8	7.2	0.103	0.321	7.7	7.9	8.3	8.53
00403	CONVERTED PH, LAB, STANDARD UNITS	08/23/83-09/18/89	66	8.	7.937	8.8	7.2	0.116	0.341	7.7	7.9	8.3	8.53
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/83-09/18/89	66	0.01	0.012	0.063	0.002	0.	0.01	0.003	0.005	0.013	0.02
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/16/68-10/29/75	21	108.	107.667	120.	95.	50.633	7.116	96.8	103.	113.	119.4
00500	RESIDUE, TOTAL (MG/L)	05/16/68-05/08/69	3	480.	584.667	834.	440.	47025.333	216.853	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/08/69-05/08/69	1	72.	72.	72.	72.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-05/30/79	18	166.	175.444	346.	112.	2270.026	47.645	137.2	150.	187.5	209.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-09/18/89	137	86.	112.73	676.	2.	8620.86	92.849	36.	58.	146.	219.4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-09/18/89	137	0.03	0.041	0.48	0.01	0.003	0.052	0.01	0.01	0.05	0.1
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/25/80-08/25/80	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-09/18/89	157	0.4	0.408	1.51	0.	0.084	0.289	0.01	0.115	0.635	0.79
00640	NITROGEN, INORGANIC, TOTAL (MG/L AS N)	10/20/81-10/20/81	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/16/68-10/04/72	9	0.4	0.578	1.5	0.2	0.234	0.484	0.2	0.25	0.95	1.5
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	12/14/77-01/22/80	24	0.1	0.142	0.3	0.03	0.006	0.076	0.085	0.1	0.2	0.3

** - 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 time series plot

Parameter Inventory for Station: NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/21/80-09/18/89	110	0.145	0.165	0.8	0.01	0.015	0.122	0.041	0.09	0.2	0.289
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/20/81-09/18/89	90	3.2	3.87	13.7	0.5	4.692	2.166	1.91	2.4	4.8	6.19
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/16/68-10/29/75	20	95.	92.7	112.	28.	311.8	17.658	81.	91.25	103.25	111.6
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-09/18/89	154	30.2	30.919	64.	3.	45.571	6.751	26.	28.075	32.85	35.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-09/18/89	152	4.	4.648	65.	2.	26.21	5.12	3.03	3.7	4.575	5.
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-09/18/89	153	8.8	9.186	25.	5.	6.372	2.524	7.	8.	9.94	11.
00931	SODIUM ADSORPTION RATIO	05/16/68-05/15/75	17	0.4	0.571	1.	0.4	0.05	0.223	0.4	0.4	0.7	1.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/68-10/29/75	19	6.	6.263	9.	3.	2.205	1.485	4.	5.	7.	8.
00940	CHLORIDE,TOTAL IN WATER MG/L	05/16/68-09/18/89	158	2.	2.168	8.	0.5	1.814	1.347	0.5	1.	2.5	3.1
00945	SULFATE, TOTAL (MG/L AS SO4)	05/16/68-10/29/75	21	4.	5.833	29.	0.5	39.383	6.276	1.2	2.	8.	13.2
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/16/68-05/08/69	3	0.32	0.257	0.35	0.1	0.019	0.137	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/08/69-05/08/69	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/16/68-05/08/69	2 ##	25.	25.	50.	0.	1250.	35.355	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/16/68-05/08/69	3	5.	18.667	50.	1.	740.333	27.209	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/16/68-05/16/68	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/16/68-05/08/69	3	100.	216.667	500.	50.	60833.333	246.644	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	137	46.5	836.872	46000.	0.	18240839.688	4270.93	7.	20.	107.5	696.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	137	1.667	1.741	4.663	0.	0.74	0.86	0.845	1.301	2.031	2.824
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			55.089								
31648	E. COLI - MTEC-MF N0/100ML	06/23/87-09/18/89	28	20.5	306.536	6300.	7.	1447403.739	1203.081	7.	7.	72.	259.7
31648	LOG E. COLI - MTEC-MF N0/1	06/23/87-09/18/89	28	1.312	1.476	3.799	0.845	0.499	0.706	0.845	0.845	1.855	2.226
31648	GM E. COLI - MTEC-MF N0/10	GEOMETRIC MEAN =			29.92								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/25/83-09/18/89	68	64.5	702.794	26000.	7.	10420867.867	3228.137	12.	23.25	201.25	813.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/25/83-09/18/89	68	1.81	1.908	4.415	0.845	0.539	0.734	1.079	1.366	2.302	2.909
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			80.904								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/20/80-04/29/80	3	0.2	0.203	0.26	0.15	0.003	0.055	**	**	**	**

** - 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: NIOB0005

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	22	3	0.14	11	1	0.09	1	0	0.00	10	2	0.20			
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Fresh Acute	4.	1	0	0.00							1	0	0.00			
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	153	0	0.00	66	0	0.00	21	0	0.00	66	0	0.00			
00400	PH	Other-Hi Lim.	9.	131	1	0.01	50	1	0.02	16	0	0.00	65	0	0.00			
		Other-Lo Lim.	6.5	131	0	0.00	50	0	0.00	16	0	0.00	65	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	66	0	0.00	29	0	0.00	11	0	0.00	26	0	0.00			
		Other-Lo Lim.	6.5	66	0	0.00	29	0	0.00	11	0	0.00	26	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	157	0	0.00	68	0	0.00	21	0	0.00	68	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	158	0	0.00	68	0	0.00	21	0	0.00	69	0	0.00			
		Drinking Water	250.	158	0	0.00	68	0	0.00	21	0	0.00	69	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	21	0	0.00	10	0	0.00	1	0	0.00	10	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	3	0	0.00	1	0	0.00				2	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1 &	0	0.00							1	0	0.00			
		Drinking Water	1300.	2	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			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	137	27	0.20	58	17	0.29	20	0	0.00	59	10	0.17			
31648	E. COLI, MTEC, MF	Other	126.	28	3	0.11	12	2	0.17	4	0	0.00	12	1	0.08			

& - 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 1968 - Station NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-09/18/89	2	15.	15.	20.	10.	50.	7.071	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	05/16/68-09/22/86	2	1416.	1416.	1426.	1406.	200.	14.142	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-09/18/89	2	255.	255.	280.	230.	1250.	35.355	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	05/16/68-09/18/89	2	9.25	9.25	10.3	8.2	2.205	1.485	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-09/18/89	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-09/18/89	1	33.	33.	33.	33.	0.	0.	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-09/18/89	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-09/18/89	2	19.	19.	22.	16.	18.	4.243	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/16/68-09/18/89	2	5.	5.	8.	2.	18.	4.243	**	**	**	**

** - 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 1969 - Station NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-09/18/89	2	22.	22.	27.	17.	50.	7.071	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	05/16/68-09/22/86	2	926.5	926.5	1041.	812.	26220.5	161.927	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-09/18/89	2	225.	225.	240.	210.	450.	21.213	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	05/16/68-09/18/89	2	8.55	8.55	9.3	7.8	1.125	1.061	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	2	7.95	7.95	8.1	7.8	0.045	0.212	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	2	7.925	7.925	8.1	7.8	0.046	0.215	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	2	0.012	0.012	0.016	0.008	0.	0.006	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-09/18/89	2 ##	0.275	0.275	0.5	0.05	0.101	0.318	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-09/18/89	2	37.	37.	42.	32.	50.	7.071	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-09/18/89	2	4.	4.	6.	2.	8.	2.828	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-09/18/89	2	21.5	21.5	25.	18.	24.5	4.95	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/16/68-09/18/89	2 ##	4.25	4.25	8.	0.5	28.125	5.303	**	**	**	**

** - 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 1970 - Station NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-09/18/89	2	24.25	24.25	25.	23.5	1.125	1.061	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	05/16/68-09/22/86	2	793.5	793.5	958.	629.	54120.5	232.638	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-09/18/89	2	213.5	213.5	227.	200.	364.5	19.092	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	05/16/68-09/18/89	2	8.05	8.05	8.1	8.	0.005	0.071	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	2	7.3	7.3	7.4	7.2	0.02	0.141	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	2	7.289	7.289	7.4	7.2	0.02	0.142	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	2	0.051	0.051	0.063	0.04	0.	0.016	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-09/18/89	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-09/18/89	2	33.	33.	34.	32.	2.	1.414	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-09/18/89	2	6.5	6.5	8.	5.	4.5	2.121	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-09/18/89	2	15.5	15.5	17.	14.	4.5	2.121	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/16/68-09/18/89	2 ##	2.25	2.25	4.	0.5	6.125	2.475	**	**	**	**

** - 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 1971 - Station NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-09/18/89	1	22.5	22.5	22.5	22.5	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	05/16/68-09/22/86	1	713.	713.	713.	713.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-09/18/89	1	210.	210.	210.	210.	0.	0.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	05/16/68-09/18/89	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-09/18/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-09/18/89	1	29.	29.	29.	29.	0.	0.	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-09/18/89	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-09/18/89	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/16/68-09/18/89	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 box-and-whisker plot

Annual Analysis for 1972 - Station NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-09/18/89	2	19.25	19.25	25.5	13.	78.125	8.839	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	05/16/68-09/22/86	3	1163.	1278.333	1731.	941.	166001.333	407.433	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-09/18/89	2	227.5	227.5	230.	225.	12.5	3.536	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	05/16/68-09/18/89	2	8.35	8.35	9.8	6.9	4.205	2.051	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	2	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	2	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	2	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-09/18/89	2 ##	0.125	0.125	0.2	0.05	0.011	0.106	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-09/18/89	2	31.	31.	32.	30.	2.	1.414	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-09/18/89	2	4.	4.	4.	4.	0.	0.	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-09/18/89	2	8.5	8.5	9.	8.	0.5	0.707	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/16/68-09/18/89	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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Annual Analysis for 1973 - Station NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-09/18/89	3	13.5	13.833	27.	1.	169.083	13.003	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	05/16/68-09/22/86	3	1247.	1281.333	1352.	1245.	3746.333	61.207	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-09/18/89	3	240.	243.333	250.	240.	33.333	5.774	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	05/16/68-09/18/89	3	10.8	10.467	12.6	8.	5.373	2.318	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	2	8.15	8.15	8.3	8.	0.045	0.212	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	2	8.125	8.125	8.3	8.	0.046	0.215	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	2	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-09/18/89	2	0.6	0.6	0.7	0.5	0.02	0.141	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-09/18/89	2	15.	15.	27.	3.	288.	16.971	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-09/18/89	2	4.5	4.5	5.	4.	0.5	0.707	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-09/18/89	2	9.5	9.5	10.	9.	0.5	0.707	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/16/68-09/18/89	3	2.	3.333	6.	2.	5.333	2.309	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.								

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Annual Analysis for 1974 - Station NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-09/18/89	4	11.25	9.875	17.	0.	62.729	7.92	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	05/16/68-09/22/86	4	1147.5	1066.5	1241.	730.	57972.333	240.774	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-09/18/89	4	225.	248.75	325.	220.	2589.583	50.888	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	05/16/68-09/18/89	4	9.	8.725	10.9	6.	5.809	2.41	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	4	8.15	8.15	8.2	8.1	0.003	0.058	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	4	8.147	8.147	8.2	8.1	0.003	0.058	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	4	0.007	0.007	0.008	0.006	0.	0.001	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-09/18/89	4	0.5	0.55	0.8	0.4	0.037	0.191	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-09/18/89	4	29.	28.75	31.	26.	4.25	2.062	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-09/18/89	4	4.5	4.5	5.	4.	0.333	0.577	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-09/18/89	4	9.	9.	10.	8.	0.667	0.816	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/16/68-09/18/89	4	1.	1.5	3.	1.	1.	1.	**	**	**	**

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Annual Analysis for 1975 - Station NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-09/18/89	4	15.	13.5	21.	3.	67.667	8.226	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	05/16/68-09/22/86	4	990.5	936.	1097.	666.	42482.	206.112	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-09/18/89	4	221.5	230.75	300.	180.	2522.25	50.222	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	05/16/68-09/18/89	4	9.9	10.075	12.2	8.3	4.076	2.019	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	4	8.	7.975	8.4	7.5	0.143	0.377	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	4	7.989	7.853	8.4	7.5	0.162	0.403	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	4	0.01	0.014	0.032	0.004	0.	0.012	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-09/18/89	5	0.4	0.44	0.9	0.2	0.073	0.27	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-09/18/89	4	29.	29.	32.	26.	6.667	2.582	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-09/18/89	4	5.	19.75	65.	4.	910.25	30.17	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-09/18/89	4	9.5	9.5	11.	8.	1.667	1.291	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/16/68-09/18/89	5	2.	1.8	3.	1.	0.7	0.837	**	**	**	**

** - 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 1977 - Station NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-09/18/89	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	05/16/68-09/22/86	1	1537.	1537.	1537.	1537.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-09/18/89	1	220.	220.	220.	220.	0.	0.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	05/16/68-09/18/89	1	12.4	12.4	12.4	12.4	0.	0.	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	12/14/77-09/13/83	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	12/14/77-09/18/89	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-09/18/89	1	76.	76.	76.	76.	0.	0.	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-09/18/89	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-09/18/89	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-09/18/89	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/16/68-09/18/89	1	1.	1.	1.	1.	0.	0.	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			10.								

** - 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 NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-09/18/89	12	13.3	12.792	30.	0.	140.063	11.835	0.	0.125	24.75	28.5
00060	FLOW, STREAM, MEAN DAILY CFS	05/16/68-09/22/86	12	1030.	1161.333	2260.	803.	187248.242	432.722	809.9	875.5	1380.25	2081.2
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-09/18/89	12	212.5	214.583	260.	180.	420.265	20.5	186.	200.	228.75	251.
00300p	OXYGEN, DISSOLVED MG/L	05/16/68-09/18/89	12	9.65	10.083	12.6	7.9	3.94	1.985	7.93	8.125	12.175	12.57
00310	BOD, 5 DAY, 20 DEG C MG/L	12/14/77-09/13/83	12	3.05	3.092	5.8	1.2	2.337	1.529	1.23	1.65	4.525	5.47
00340	COD, .25N K2CR2O7 MG/L	12/14/77-09/18/89	11	10.	17.136	73.	1.	440.005	20.976	1.3	5.	18.	65.6
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	9	8.2	8.144	8.5	7.7	0.058	0.24	7.7	7.95	8.3	8.5
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	9	8.2	8.081	8.5	7.7	0.062	0.25	7.7	7.95	8.3	8.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	9	0.006	0.008	0.02	0.003	0.	0.005	0.003	0.005	0.011	0.02
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-09/18/89	12	112.	114.5	316.	14.	7389.909	85.965	14.3	43.75	154.25	280.9
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-09/18/89	12	0.1	0.083	0.1	0.01	0.001	0.032	0.016	0.07	0.1	0.1
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-09/18/89	12	0.3	0.393	0.9	0.005	0.089	0.298	0.007	0.15	0.675	0.87
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-09/18/89	12	31.	31.	35.	26.	5.818	2.412	26.6	30.	33.	34.4
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-09/18/89	12	4.	4.25	8.	3.	1.659	1.288	3.	4.	4.	7.1
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-09/18/89	12	9.	8.917	13.	6.	2.992	1.73	6.6	8.	9.	12.4
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/16/68-09/18/89	12	2.	2.167	4.	1.	0.697	0.835	1.	2.	2.75	3.7
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	12	34.	245.083	2200.	5.	390826.992	625.162	9.5	20.75	72.75	1661.8
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	12	1.531	1.695	3.342	0.699	0.466	0.683	0.88	1.316	1.854	3.122
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			49.512								

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Annual Analysis for 1979 - Station NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-09/18/89	10	16.05	13.52	26.8	0.5	122.035	11.047	0.53	1.7	24.2	26.6
00060	FLOW, STREAM, MEAN DAILY CFS	05/16/68-09/22/86	11	1095.	1080.091	1505.	807.	42680.291	206.592	807.6	867.	1137.	1463.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-09/18/89	10	210.	208.	270.	135.	1334.444	36.53	138.5	192.5	230.	266.
00300p	OXYGEN, DISSOLVED MG/L	05/16/68-09/18/89	10	9.4	9.99	12.6	8.	2.93	1.712	8.03	8.375	11.65	12.52
00310	BOD, 5 DAY, 20 DEG C MG/L	12/14/77-09/13/83	10	2.15	2.74	8.7	1.4	4.836	2.199	1.4	1.4	3.05	8.15
00340	COD, .25N K2CR2O7 MG/L	12/14/77-09/18/89	10	26.	27.5	43.	10.	98.5	9.925	10.9	22.	37.5	42.6
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	10	8.2	8.11	8.5	7.3	0.132	0.363	7.35	7.875	8.35	8.5
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	10	8.2	7.938	8.5	7.3	0.165	0.406	7.35	7.875	8.35	8.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	10	0.006	0.012	0.05	0.003	0.	0.014	0.003	0.005	0.013	0.047
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-09/18/89	10	145.	171.1	396.	88.	8613.878	92.811	88.7	96.5	220.5	378.9
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-09/18/89	10	0.035	0.058	0.2	0.01	0.004	0.06	0.01	0.018	0.1	0.19
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-09/18/89	10	0.3	0.368	0.77	0.01	0.074	0.273	0.019	0.175	0.7	0.763
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-09/18/89	10	37.	44.4	64.	26.	250.933	15.841	26.2	30.25	63.	63.9
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-09/18/89	10	4.	3.8	5.	2.	0.844	0.919	2.1	3.	4.25	5.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-09/18/89	10	8.5	8.6	11.	7.	1.6	1.265	7.	7.75	9.25	10.9
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/16/68-09/18/89	10	1.5	1.5	2.	1.	0.278	0.527	1.	1.	2.	2.
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	10 ##	42.75	114.7	410.	6.5	21283.733	145.889	6.95	13.25	255.	399.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	10 ##	1.631	1.691	2.613	0.813	0.387	0.622	0.836	1.12	2.404	2.599
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			49.074								

** - 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 NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-09/18/89	12	13.75	14.583	32.	0.	132.856	11.526	0.3	4.25	24.75	31.25
00060	FLOW, STREAM, MEAN DAILY CFS	05/16/68-09/22/86	12	1011.5	1010.25	1507.	622.	68390.932	261.517	651.4	771.5	1219.25	1425.1
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-09/18/89	12	212.5	202.25	245.	47.	2731.659	52.265	85.4	202.5	228.75	243.5
00300p	OXYGEN, DISSOLVED MG/L	05/16/68-09/18/89	11	10.6	10.373	13.2	7.9	3.416	1.848	7.9	8.5	11.8	13.14
00310	BOD, 5 DAY, 20 DEG C MG/L	12/14/77-09/13/83	12	2.5	2.508	5.7	0.2	2.457	1.568	0.26	1.225	3.475	5.25

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Annual Analysis for 1980 - Station NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00340	COD, .25N K2CR2O7 MG/L	12/14/77-09/18/89	12	27.5	28.583	74.	9.	261.174	16.161	11.7	19.	32.	61.7
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	12	8.05	8.042	8.6	7.5	0.068	0.261	7.59	7.925	8.175	8.48
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	12	8.047	7.969	8.6	7.5	0.074	0.272	7.59	7.925	8.175	8.48
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	12	0.009	0.011	0.032	0.003	0.	0.007	0.004	0.007	0.012	0.027
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-09/18/89	12	59.5	78.833	200.	5.	3648.879	60.406	5.9	38.	133.25	185.9
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-09/18/89	12	0.02	0.035	0.1	0.01	0.001	0.034	0.01	0.01	0.05	0.1
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-09/18/89	12	0.4	0.376	0.79	0.01	0.082	0.286	0.01	0.05	0.585	0.79
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/21/80-09/18/89	8	0.09	0.113	0.25	0.03	0.007	0.082	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-09/18/89	12	30.	30.417	35.	28.	3.538	1.881	28.	29.25	31.	34.1
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-09/18/89	12	4.	4.083	7.	3.	1.174	1.084	3.	3.25	4.	6.4
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-09/18/89	12	9.	8.833	10.	8.	0.515	0.718	8.	8.	9.	10.
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/16/68-09/18/89	12	1.	1.375	4.	0.5	1.051	1.025	0.5	0.5	2.	3.4
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	12 ##	53.25	81.583	520.	2.5	20168.992	142.018	2.65	8.125	74.375	394.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	12 ##	1.723	1.474	2.716	0.398	0.47	0.685	0.422	0.906	1.871	2.501
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			29.799								

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Annual Analysis for 1981 - Station NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-09/18/89	12	8.	10.833	26.	0.	79.652	8.925	0.3	3.75	20.625	25.1
00060	FLOW, STREAM, MEAN DAILY CFS	05/16/68-09/22/86	12	964.	952.167	1279.	556.	32837.606	181.211	633.1	864.5	1074.25	1232.5
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-09/18/89	12	220.	217.917	250.	180.	524.811	22.909	184.5	200.	240.	247.
00300p	OXYGEN, DISSOLVED MG/L	05/16/68-09/18/89	12	10.75	10.617	13.	7.9	3.143	1.773	7.96	8.9	12.325	12.94
00310	BOD, 5 DAY, 20 DEG C MG/L	12/14/77-09/13/83	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	12/14/77-09/18/89	9 ##	1.5	8.611	28.	1.5	95.736	9.784	1.5	1.5	16.5	28.
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	12	8.15	8.158	8.6	7.9	0.044	0.211	7.93	8.	8.2	8.57
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	12	8.147	8.118	8.6	7.9	0.046	0.215	7.93	8.	8.2	8.57
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	12	0.007	0.008	0.013	0.003	0.	0.003	0.003	0.006	0.01	0.012
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-09/18/89	12	82.	75.667	125.	27.	824.424	28.713	29.7	51.	96.5	117.5
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-09/18/89	12 ##	0.015	0.023	0.05	0.01	0.	0.014	0.01	0.015	0.038	0.047
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-09/18/89	12	0.405	0.389	0.82	0.05	0.063	0.251	0.05	0.14	0.605	0.766
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/21/80-09/18/89	12	0.06	0.075	0.27	0.01	0.005	0.074	0.01	0.016	0.115	0.225
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/20/81-09/18/89	3	1.9	1.9	2.1	1.7	0.04	0.2	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-09/18/89	12	30.5	31.192	37.	28.	8.332	2.886	28.	29.	33.6	36.25
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-09/18/89	10	4.	4.1	8.	3.	2.1	1.449	3.	3.	4.	7.6
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-09/18/89	10	8.	7.4	9.	5.	1.822	1.35	5.1	6.	8.25	9.
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/16/68-09/18/89	12	2.	2.208	6.	0.5	2.884	1.698	0.65	1.	2.75	5.7
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	12	20.	1046.375	8300.	0.	6321645.778	2514.288	0.	0.875	216.75	6920.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	12	1.301	1.533	3.919	0.	1.763	1.328	0.	0.136	2.336	3.814
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			34.123								

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Annual Analysis for 1982 - Station NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-09/18/89	10	11.75	13.2	28.5	-1.	133.567	11.557	0.2	5.75	27.25	28.45
00060	FLOW, STREAM, MEAN DAILY CFS	05/16/68-09/22/86	11	1071.	1019.545	1272.	789.	25442.273	159.506	796.2	864.	1126.	1253.6
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-09/18/89	11	221.	240.909	378.	190.	2957.091	54.379	191.4	212.	240.	363.
00300p	OXYGEN, DISSOLVED MG/L	05/16/68-09/18/89	10	10.15	10.11	13.3	7.1	4.188	2.046	7.15	8.2	11.825	13.19
00310	BOD, 5 DAY, 20 DEG C MG/L	12/14/77-09/13/83	11	1.1	1.673	3.4	0.7	1.148	1.072	0.7	0.8	3.	3.38
00340	COD, .25N K2CR2O7 MG/L	12/14/77-09/18/89	9	65.	69.222	166.	3.5	3305.132	57.49	3.5	9.25	113.	166.
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	11	8.2	8.282	9.2	7.8	0.17	0.412	7.82	8.	8.5	9.12

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Annual Analysis for 1982 - Station NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	11	8.2	8.153	9.2	7.8	0.188	0.433	7.82	8.	8.5	9.12
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	11	0.006	0.007	0.016	0.001	0.	0.005	0.001	0.003	0.01	0.015
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-09/18/89	11	66.	78.909	152.	32.	1510.891	38.87	34.8	48.	109.	147.6
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-09/18/89	11	0.01	0.035	0.16	0.01	0.002	0.046	0.01	0.01	0.06	0.14
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-09/18/89	11	0.44	0.43	0.85	0.02	0.118	0.343	0.02	0.05	0.77	0.844
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/21/80-09/18/89	11	0.07	0.064	0.11	0.01	0.001	0.029	0.016	0.04	0.08	0.108
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/20/81-09/18/89	10	2.9	3.23	5.4	2.2	1.096	1.047	2.21	2.375	3.925	5.32
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-09/18/89	11	33.1	33.	37.6	30.1	4.168	2.042	30.28	31.1	33.9	37.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-09/18/89	11	4.	4.009	4.5	3.7	0.059	0.243	3.72	3.8	4.1	4.46
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-09/18/89	10	8.35	8.572	9.74	7.8	0.489	0.7	7.81	7.975	9.275	9.716
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/16/68-09/18/89	11	2.	2.364	8.	1.	4.005	2.001	1.	1.	2.5	7.
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	11	47.	457.	2800.	0.	882074.8	939.188	0.	20.	150.	2600.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	11	1.672	1.684	3.447	0.	1.185	1.088	0.	1.301	2.176	3.409
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			48.338								

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Annual Analysis for 1983 - Station NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-09/18/89	10	15.	13.85	31.5	0.	129.336	11.373	0.	0.375	22.875	30.9
00060	FLOW, STREAM, MEAN DAILY CFS	05/16/68-09/22/86	9	1327.	1396.222	1969.	817.	129181.694	359.419	817.	1160.5	1692.5	1969.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-09/18/89	10	226.	231.5	270.	203.	531.167	23.047	203.7	213.	255.25	268.9
00300p	OXYGEN, DISSOLVED MG/L	05/16/68-09/18/89	10	9.3	9.89	13.8	6.4	6.725	2.593	6.51	7.95	12.725	13.76
00310	BOD, 5 DAY, 20 DEG C MG/L	12/14/77-09/13/83	9	1.3	1.622	3.3	0.6	1.024	1.012	0.6	0.75	2.5	3.3
00340	COD, .25N K2CR2O7 MG/L	12/14/77-09/18/89	8	64.	76.875	184.	5.	3209.554	56.653	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	6	8.05	8.083	8.6	7.7	0.094	0.306	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	6	8.047	8.005	8.6	7.7	0.101	0.318	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	6	0.009	0.01	0.02	0.003	0.	0.006	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/23/83-09/18/89	2	7.5	7.5	7.6	7.4	0.02	0.141	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/23/83-09/18/89	2	7.489	7.489	7.6	7.4	0.02	0.142	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/83-09/18/89	2	0.032	0.032	0.04	0.025	0.	0.01	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-09/18/89	10	134.5	231.5	676.	62.	43252.944	207.973	64.1	85.25	354.	658.8
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-09/18/89	10	0.025	0.025	0.06	0.01	0.	0.016	0.01	0.01	0.033	0.058
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-09/18/89	10	0.545	0.53	0.92	0.025	0.069	0.263	0.043	0.388	0.728	0.906
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/21/80-09/18/89	10	0.17	0.295	0.8	0.07	0.065	0.256	0.072	0.105	0.553	0.779
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/20/81-09/18/89	10	3.95	5.51	13.7	2.5	13.397	3.66	2.52	2.775	7.675	13.24
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-09/18/89	10	32.15	33.1	43.6	28.4	20.044	4.477	28.5	29.7	35.2	42.82
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-09/18/89	10	3.75	5.09	17.	3.1	17.637	4.2	3.15	3.6	4.3	15.73
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-09/18/89	10	9.5	9.66	12.3	7.7	2.234	1.495	7.75	8.425	10.65	12.21
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/16/68-09/18/89	10 ##	2.5	2.35	4.	1.	0.725	0.851	1.	2.125	2.5	3.85
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	10	190.	6082.9	46000.	13.	205360413.656	14330.402	15.5	49.25	6125.	42260.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	10	2.256	2.58	4.663	1.114	1.325	1.151	1.161	1.688	3.777	4.59
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			380.547								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/25/83-09/18/89	1	320.	320.	320.	320.	0.	0.	**	**	**	**
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/25/83-09/18/89	1	2.505	2.505	2.505	2.505	0.	0.	**	**	**	**
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			320.								

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Annual Analysis for 1984 - Station NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-09/18/89	12	8.5	11.417	27.	0.	116.129	10.776	0.15	1.625	23.75	27.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-09/18/89	12	230.	230.083	254.	194.	299.538	17.307	200.3	218.5	246.	252.8

** - 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 NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00300p	OXYGEN, DISSOLVED MG/L	05/16/68-09/18/89	11	11.1	10.673	13.9	7.3	5.46	2.337	7.38	8.5	12.7	13.86
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	6	8.25	8.25	8.6	8.	0.043	0.207	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	6	8.247	8.212	8.6	8.	0.045	0.211	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	6	0.006	0.006	0.01	0.003	0.	0.003	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/23/83-09/18/89	12	8.	7.942	8.4	7.2	0.121	0.348	7.35	7.7	8.25	8.4
00403	CONVERTED PH, LAB, STANDARD UNITS	08/23/83-09/18/89	12	8.	7.801	8.4	7.2	0.142	0.377	7.35	7.7	8.25	8.4
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/83-09/18/89	12	0.01	0.016	0.063	0.004	0.	0.016	0.004	0.006	0.02	0.05
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-09/18/89	12	108.5	139.	300.	38.	7721.818	87.874	39.2	61.25	222.75	278.4
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-09/18/89	12 ##	0.015	0.034	0.12	0.01	0.001	0.035	0.01	0.01	0.05	0.108
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-09/18/89	12	0.49	0.453	0.92	0.01	0.086	0.294	0.01	0.168	0.703	0.86
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/21/80-09/18/89	12	0.175	0.191	0.41	0.09	0.008	0.087	0.096	0.13	0.238	0.368
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/20/81-09/18/89	12	3.5	3.717	6.2	1.7	2.3	1.516	1.82	2.3	4.975	6.08
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-09/18/89	12	33.55	32.508	36.5	27.6	7.594	2.756	28.05	30.325	34.775	36.08
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-09/18/89	12	4.65	4.6	5.1	3.6	0.207	0.455	3.69	4.5	4.975	5.07
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-09/18/89	12	9.99	10.063	14.6	6.	5.653	2.378	6.471	8.625	10.975	14.3
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/16/68-09/18/89	12 ##	2.5	2.542	3.	2.5	0.021	0.144	2.5	2.5	2.5	2.85
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	12	62.5	1276.333	14000.	5.	16080878.788	4010.097	11.	32.25	222.5	9974.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	12	1.79	1.982	4.146	0.699	0.731	0.855	0.909	1.503	2.322	3.731
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			95.885								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/25/83-09/18/89	12	172.5	2961.083	26000.	20.	54542601.174	7385.296	37.1	98.5	2822.5	19400.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/25/83-09/18/89	12	2.237	2.58	4.415	1.301	0.784	0.886	1.477	1.987	3.382	4.171
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			379.841								

** - 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 NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-09/18/89	12	11.	12.042	27.	0.	98.703	9.935	0.	1.25	21.	26.25
00060	FLOW, STREAM, MEAN DAILY CFS	05/16/68-09/22/86	3	1133.	1146.667	1298.	1009.	21020.333	144.984	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-09/18/89	12	234.	235.083	265.	214.	165.174	12.852	216.7	226.25	241.5	258.7
00300p	OXYGEN, DISSOLVED MG/L	05/16/68-09/18/89	12	10.75	10.95	13.9	8.2	4.334	2.082	8.38	9.	13.05	13.69
00340	COD, .25N K2CR2O7 MG/L	12/14/77-09/18/89	10	14.5	38.15	248.	2.5	5519.447	74.293	2.85	7.5	26.75	226.1
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	4	8.1	8.025	8.3	7.6	0.089	0.299	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	4	8.1	7.939	8.3	7.6	0.099	0.315	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	4	0.008	0.012	0.025	0.005	0.	0.009	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/23/83-09/18/89	12	7.95	7.95	8.5	7.6	0.068	0.261	7.6	7.75	8.	8.44
00403	CONVERTED PH, LAB, STANDARD UNITS	08/23/83-09/18/89	12	7.947	7.886	8.5	7.6	0.073	0.27	7.6	7.75	8.	8.44
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/83-09/18/89	12	0.011	0.013	0.025	0.003	0.	0.007	0.004	0.01	0.018	0.025
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-09/18/89	12	72.	109.75	330.	30.	7088.75	84.195	37.2	56.5	161.	285.9
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-09/18/89	12	0.03	0.028	0.05	0.01	0.	0.015	0.01	0.01	0.04	0.05
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-09/18/89	12	0.29	0.405	1.51	0.01	0.17	0.413	0.019	0.178	0.453	1.318
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/21/80-09/18/89	12	0.145	0.153	0.3	0.06	0.004	0.059	0.078	0.12	0.165	0.276
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/20/81-09/18/89	11	3.1	3.082	6.	0.5	2.254	1.501	0.78	2.2	3.9	5.76
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-09/18/89	12	27.95	28.1	32.7	24.9	4.589	2.142	25.08	26.625	29.25	32.04
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-09/18/89	12	4.	4.058	4.6	3.7	0.081	0.284	3.73	3.8	4.275	4.54
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-09/18/89	12	8.45	8.55	9.9	7.4	0.555	0.745	7.46	7.925	9.175	9.72
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/16/68-09/18/89	12 ##	2.5	2.5	2.5	2.5	0.	0.	2.5	2.5	2.5	2.5
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	12	73.5	326.833	2100.	8.	412639.788	642.37	12.5	30.5	157.	1818.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	12	1.866	1.945	3.322	0.903	0.464	0.682	1.041	1.46	2.178	3.245
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			88.103								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/25/83-09/18/89	12	82.5	247.167	1660.	9.	209153.788	457.333	15.9	44.25	262.5	1267.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/25/83-09/18/89	12	1.916	2.	3.22	0.954	0.335	0.579	1.12	1.641	2.416	3.017
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			99.904								

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Annual Analysis for 1986 - Station NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-09/18/89	12	12.	11.667	30.	0.	108.97	10.439	0.	0.5	19.5	28.8
00060	FLOW, STREAM, MEAN DAILY CFS	05/16/68-09/22/86	9	1371.	1349.222	2076.	866.	131903.694	363.185	866.	1059.5	1514.	2076.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-09/18/89	12	246.5	251.333	292.	223.	443.697	21.064	226.	234.75	268.25	289.
00300p	OXYGEN, DISSOLVED MG/L	05/16/68-09/18/89	12	10.35	10.558	13.2	7.9	3.706	1.925	7.99	8.7	12.575	13.11
00340	COD, .25N K2CR2O7 MG/L	12/14/77-09/18/89	5	26.	26.	42.	13.	143.5	11.979	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	12	8.2	8.183	8.8	7.4	0.149	0.386	7.49	8.025	8.525	8.74
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	12	8.2	8.014	8.8	7.4	0.18	0.424	7.49	8.025	8.525	8.74
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	12	0.006	0.01	0.04	0.002	0.	0.011	0.002	0.003	0.009	0.034
00403	PH, LAB, STANDARD UNITS SU	08/23/83-09/18/89	9	8.2	8.233	8.8	7.7	0.143	0.377	7.7	7.9	8.6	8.8
00403	CONVERTED PH, LAB, STANDARD UNITS	08/23/83-09/18/89	9	8.2	8.099	8.8	7.7	0.163	0.404	7.7	7.9	8.6	8.8
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/83-09/18/89	9	0.006	0.008	0.02	0.002	0.	0.006	0.002	0.003	0.013	0.02
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-09/18/89	12	70.	81.5	202.	2.	2756.636	52.504	10.4	54.75	112.75	182.2
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-09/18/89	12	0.02	0.029	0.08	0.01	0.001	0.024	0.01	0.01	0.038	0.077
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-09/18/89	12	0.48	0.397	0.8	0.01	0.092	0.303	0.01	0.013	0.653	0.779
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/21/80-09/18/89	12	0.19	0.178	0.27	0.08	0.004	0.06	0.083	0.133	0.23	0.264
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/20/81-09/18/89	11	5.6	5.936	9.8	2.4	5.427	2.329	2.58	4.8	7.8	9.76
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-09/18/89	12	27.4	27.367	30.7	24.1	5.328	2.308	24.28	25.05	29.65	30.64
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-09/18/89	12	4.6	4.558	5.7	3.1	0.515	0.718	3.34	4.	4.975	5.64
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-09/18/89	12	8.	8.233	11.8	6.	3.359	1.833	6.06	6.35	9.875	11.26
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/16/68-09/18/89	12 ##	2.5	2.583	4.	0.5	1.038	1.019	0.65	2.5	3.	4.
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	11	40.	102.091	580.	20.	26361.491	162.362	20.	33.	100.	490.6
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	11	1.602	1.755	2.763	1.301	0.18	0.424	1.301	1.519	2.	2.636
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			56.823								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/25/83-09/18/89	11	60.	147.	525.	24.	32883.2	181.337	24.8	30.	343.	498.6
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/25/83-09/18/89	11	1.778	1.885	2.72	1.38	0.249	0.499	1.394	1.477	2.535	2.695
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			76.648								

** - 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 NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-09/18/89	12	11.	12.5	26.	0.	95.545	9.775	0.6	4.25	22.25	25.4
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-09/18/89	12	227.	238.	312.	208.	828.909	28.791	211.	221.25	256.	297.9
00300p	OXYGEN, DISSOLVED MG/L	05/16/68-09/18/89	11	9.5	10.409	12.9	8.1	4.037	2.009	8.12	8.4	12.4	12.82
00340	COD, .25N K2CR2O7 MG/L	12/14/77-09/18/89	9	14.	21.389	74.	2.5	469.361	21.665	2.5	8.	28.	74.
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	10	8.2	8.25	8.8	8.	0.063	0.251	8.	8.075	8.425	8.77
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	10	8.2	8.197	8.8	8.	0.066	0.257	8.	8.075	8.425	8.77
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	10	0.006	0.006	0.01	0.002	0.	0.003	0.002	0.004	0.008	0.01
00403	PH, LAB, STANDARD UNITS SU	08/23/83-09/18/89	10	8.	8.09	8.4	7.9	0.05	0.223	7.9	7.9	8.4	8.4
00403	CONVERTED PH, LAB, STANDARD UNITS	08/23/83-09/18/89	10	8.	8.045	8.4	7.9	0.052	0.228	7.9	7.9	8.4	8.4
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/83-09/18/89	10	0.01	0.009	0.013	0.004	0.	0.004	0.004	0.004	0.013	0.013
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-09/18/89	12	90.	115.667	230.	40.	4093.333	63.979	43.9	71.5	187.25	221.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-09/18/89	12	0.04	0.083	0.48	0.01	0.017	0.129	0.01	0.023	0.078	0.372
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-09/18/89	12	0.43	0.417	0.77	0.02	0.062	0.248	0.032	0.19	0.633	0.737
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/21/80-09/18/89	12	0.195	0.229	0.5	0.11	0.012	0.112	0.116	0.153	0.288	0.455
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/20/81-09/18/89	12	3.1	3.142	6.1	1.4	1.71	1.308	1.55	1.95	3.8	5.53
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-09/18/89	12	28.9	26.108	31.6	10.	43.126	6.567	11.77	24.925	30.175	31.3
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-09/18/89	12	3.75	3.967	5.4	3.5	0.326	0.571	3.5	3.6	4.2	5.19
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-09/18/89	12	9.25	8.917	11.	6.5	1.62	1.273	6.65	8.15	9.725	10.7
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/16/68-09/18/89	12	2.5	2.667	6.	0.5	2.152	1.467	0.65	2.	3.75	5.4
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	12	35.	78.167	400.	20.	11806.515	108.658	20.	23.5	86.25	325.9
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	12	1.544	1.673	2.602	1.301	0.161	0.401	1.301	1.371	1.928	2.477
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			47.107								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/25/83-09/18/89	11	59.	76.909	248.	9.	4714.291	68.661	12.2	25.	105.	225.6
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/25/83-09/18/89	11	1.771	1.732	2.394	0.954	0.162	0.402	1.043	1.398	2.021	2.342
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			53.973								

** - 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 NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-09/18/89	12	12.5	11.917	32.	0.	144.083	12.003	0.	0.	24.25	30.5
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-09/18/89	12	220.	223.667	251.	192.	395.879	19.897	194.1	210.25	246.25	250.4
00300p	OXYGEN, DISSOLVED MG/L	05/16/68-09/18/89	12	9.6	10.275	12.9	7.6	4.149	2.037	7.75	8.45	12.475	12.87
00340	COD, .25N K2CR2O7 MG/L	12/14/77-09/18/89	12	19.	20.375	44.	2.5	186.96	13.673	2.95	10.5	33.25	42.8
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	12	8.1	8.058	8.5	7.6	0.075	0.275	7.63	7.775	8.2	8.47
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	12	8.1	7.977	8.5	7.6	0.083	0.287	7.63	7.775	8.2	8.47
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	12	0.008	0.011	0.025	0.003	0.	0.007	0.003	0.006	0.017	0.024
00403	PH, LAB, STANDARD UNITS SU	08/23/83-09/18/89	12	8.	8.125	8.6	7.8	0.082	0.286	7.83	7.9	8.425	8.6
00403	CONVERTED PH, LAB, STANDARD UNITS	08/23/83-09/18/89	12	8.	8.054	8.6	7.8	0.088	0.296	7.83	7.9	8.425	8.6
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/83-09/18/89	12	0.01	0.009	0.016	0.003	0.	0.004	0.003	0.004	0.013	0.015
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-09/18/89	12	87.	99.75	221.	21.	3692.75	60.768	27.6	60.5	126.75	215.6
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-09/18/89	12	0.03	0.04	0.13	0.01	0.001	0.032	0.01	0.02	0.05	0.109
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-09/18/89	12	0.515	0.448	0.82	0.01	0.087	0.294	0.01	0.1	0.648	0.811
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/21/80-09/18/89	12	0.16	0.208	0.38	0.11	0.009	0.094	0.119	0.15	0.313	0.371
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/20/81-09/18/89	12	3.55	4.092	9.8	2.	4.261	2.064	2.18	2.825	4.525	8.63
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-09/18/89	12	30.2	30.267	33.3	25.4	5.088	2.256	26.33	28.8	32.3	33.15
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-09/18/89	12	3.9	4.042	5.4	2.9	0.544	0.738	3.02	3.55	4.75	5.28
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-09/18/89	12	8.55	9.292	11.6	7.	2.394	1.547	7.21	8.3	10.65	11.54
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/16/68-09/18/89	12	2.	1.875	3.	0.5	0.551	0.742	0.65	1.25	2.	3.
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	12	36.	794.333	7300.	7.	4414800.97	2101.143	7.	9.	220.	5608.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	12	1.509	1.785	3.863	0.845	0.944	0.972	0.845	0.928	2.311	3.67
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			60.914								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/25/83-09/18/89	12	22.5	528.583	4650.	10.	1766166.629	1328.972	10.	14.75	241.5	3561.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/25/83-09/18/89	12	1.349	1.811	3.667	1.	0.761	0.872	1.	1.167	2.369	3.47
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			64.71								

** - 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

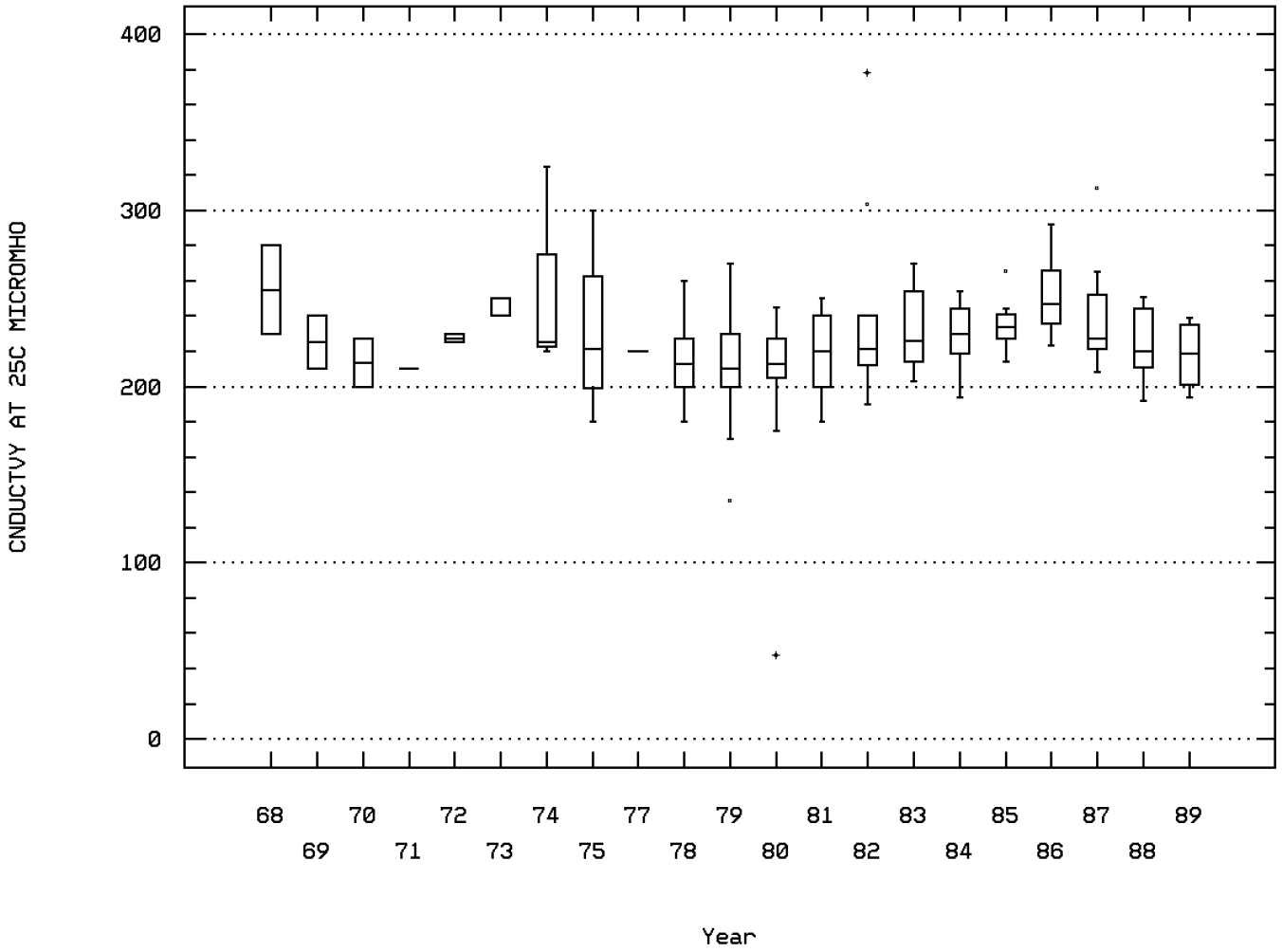
Annual Analysis for 1989 - Station NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-09/18/89	9	20.	14.667	27.	0.	139.5	11.811	0.	1.	26.	27.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-09/18/89	9	219.	218.444	239.	194.	319.528	17.875	194.	199.	236.	239.
00300p	OXYGEN, DISSOLVED MG/L	05/16/68-09/18/89	9	9.	9.833	12.9	7.	5.075	2.253	7.	7.85	12.2	12.9
00340	COD, .25N K2CR2O7 MG/L	12/14/77-09/18/89	9	14.	13.444	24.	4.	57.278	7.568	4.	6.	21.	24.
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	8	7.9	7.95	8.3	7.5	0.074	0.273	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	8	7.889	7.875	8.3	7.5	0.081	0.284	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	8	0.013	0.013	0.032	0.005	0.	0.009	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/23/83-09/18/89	9	8.1	8.122	8.6	7.7	0.102	0.319	7.7	7.85	8.4	8.6
00403	CONVERTED PH, LAB, STANDARD UNITS	08/23/83-09/18/89	9	8.1	8.027	8.6	7.7	0.112	0.335	7.7	7.85	8.4	8.6
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/83-09/18/89	9	0.008	0.009	0.02	0.003	0.	0.006	0.003	0.004	0.014	0.02
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-09/18/89	9	60.	77.556	189.	30.	3552.278	59.601	30.	36.	122.5	189.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-09/18/89	9 ##	0.01	0.012	0.03	0.01	0.	0.007	0.01	0.01	0.01	0.03
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-09/18/89	9	0.44	0.41	0.82	0.01	0.077	0.278	0.01	0.155	0.63	0.82
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/21/80-09/18/89	9	0.13	0.134	0.26	0.07	0.003	0.059	0.07	0.085	0.165	0.26
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/20/81-09/18/89	9	2.7	2.733	4.1	1.8	0.502	0.709	1.8	2.15	3.25	4.1
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-09/18/89	9	28.3	28.333	31.3	25.2	3.98	1.995	25.2	26.7	29.95	31.3
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-09/18/89	9	3.5	3.422	3.7	2.9	0.092	0.303	2.9	3.15	3.7	3.7
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-09/18/89	9	7.7	7.722	8.8	6.9	0.489	0.7	6.9	7.05	8.35	8.8
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/16/68-09/18/89	9	1.	1.389	3.	0.5	0.799	0.894	0.5	0.5	2.	3.
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	9	20.	36.778	133.	7.	1961.444	44.288	7.	7.	58.5	133.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	9	1.301	1.328	2.124	0.845	0.217	0.466	0.845	0.845	1.693	2.124
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			21.259								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/25/83-09/18/89	9	14.	18.333	50.	7.	162.75	12.757	7.	12.	21.5	50.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/25/83-09/18/89	9	1.146	1.197	1.699	0.845	0.057	0.238	0.845	1.079	1.331	1.699
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			15.733								

** - 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: NIOB0005 Parameter Code: 00095

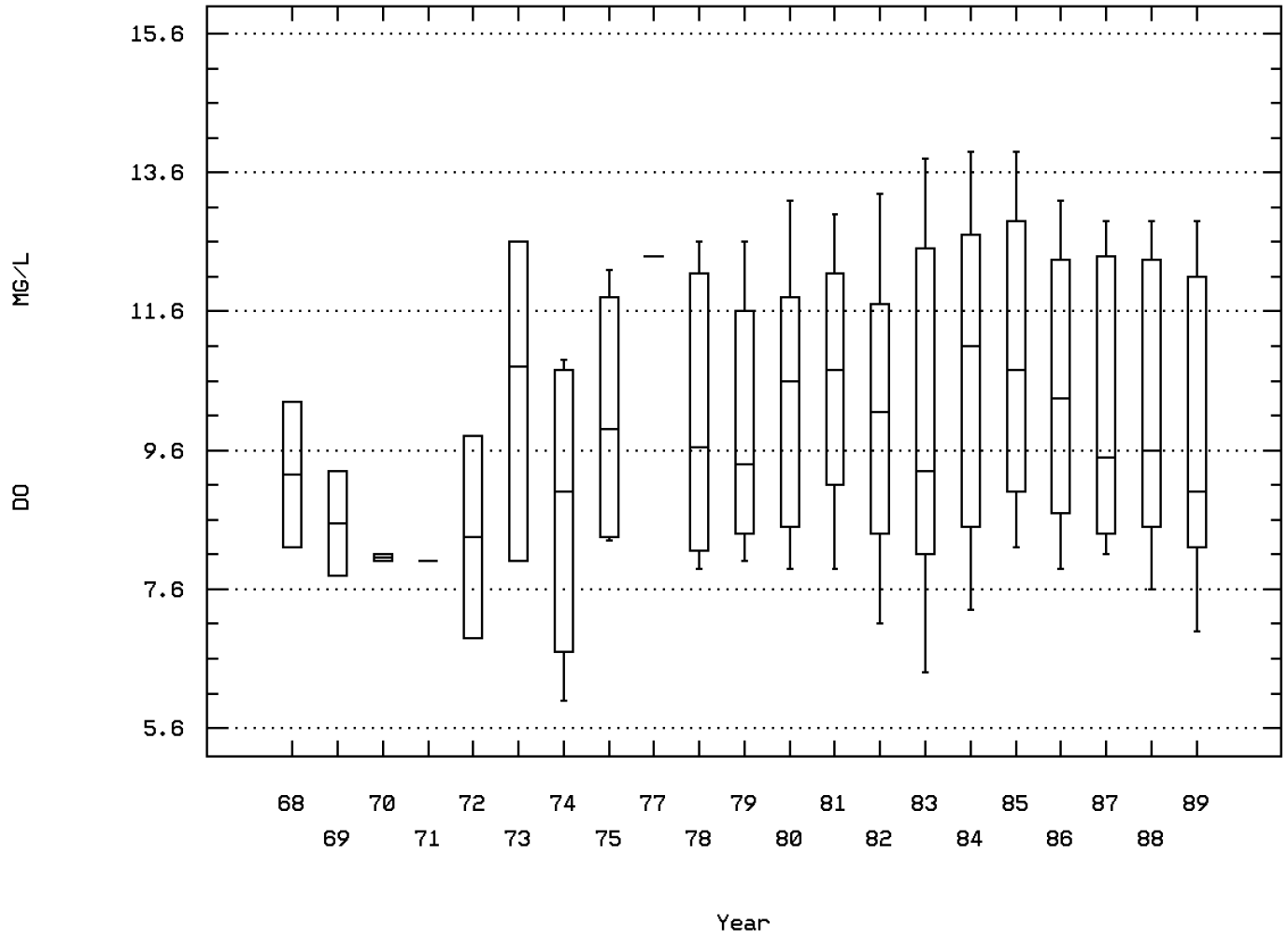
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



NIOBRARA RIVER S OF RIVERVIEW

Station: NIOB0005 Parameter Code: 00300

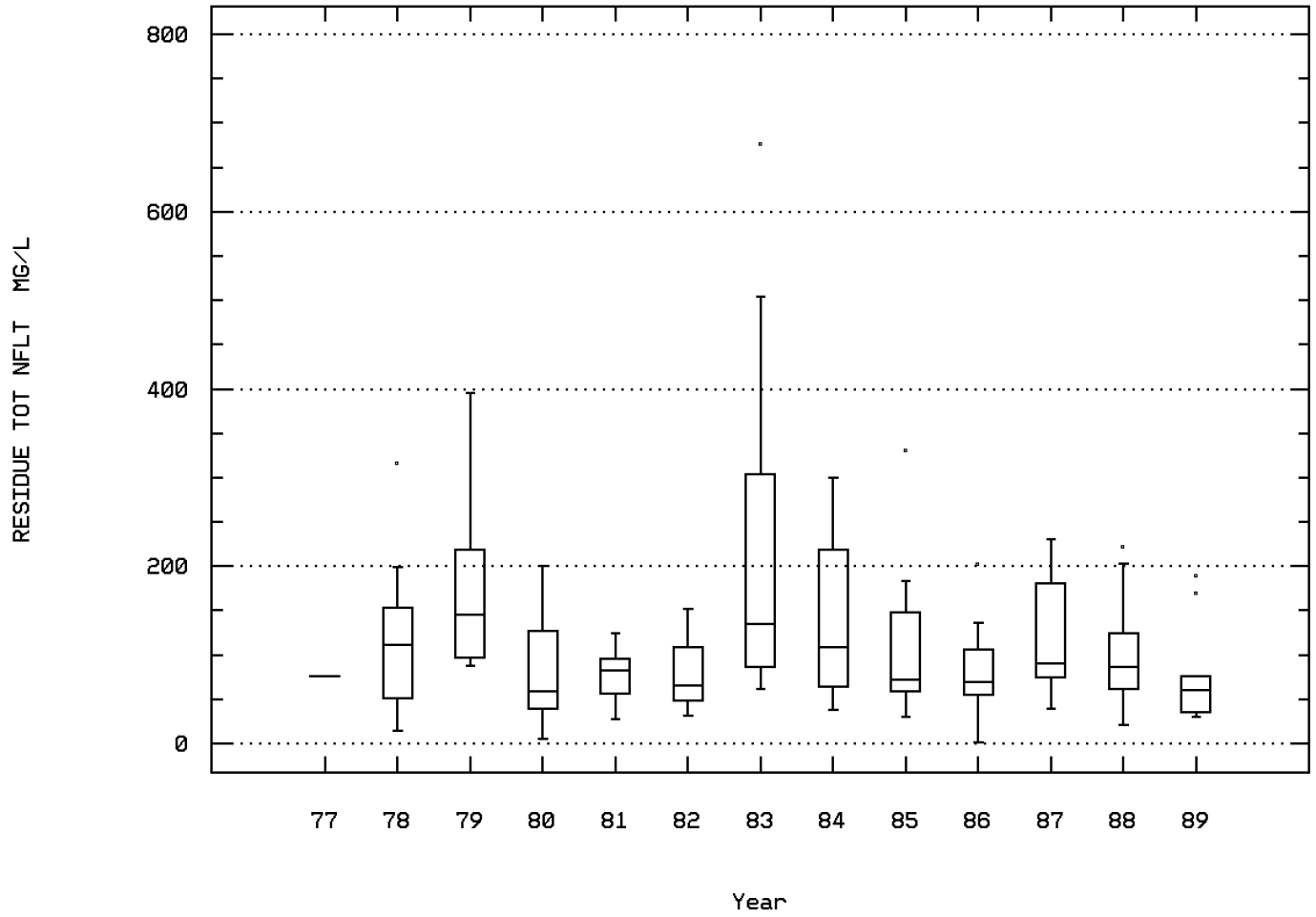
OXYGEN, DISSOLVED



NIOBRARA RIVER S OF RIVERVIEW

Station: NIOB0005 Parameter Code: 00530

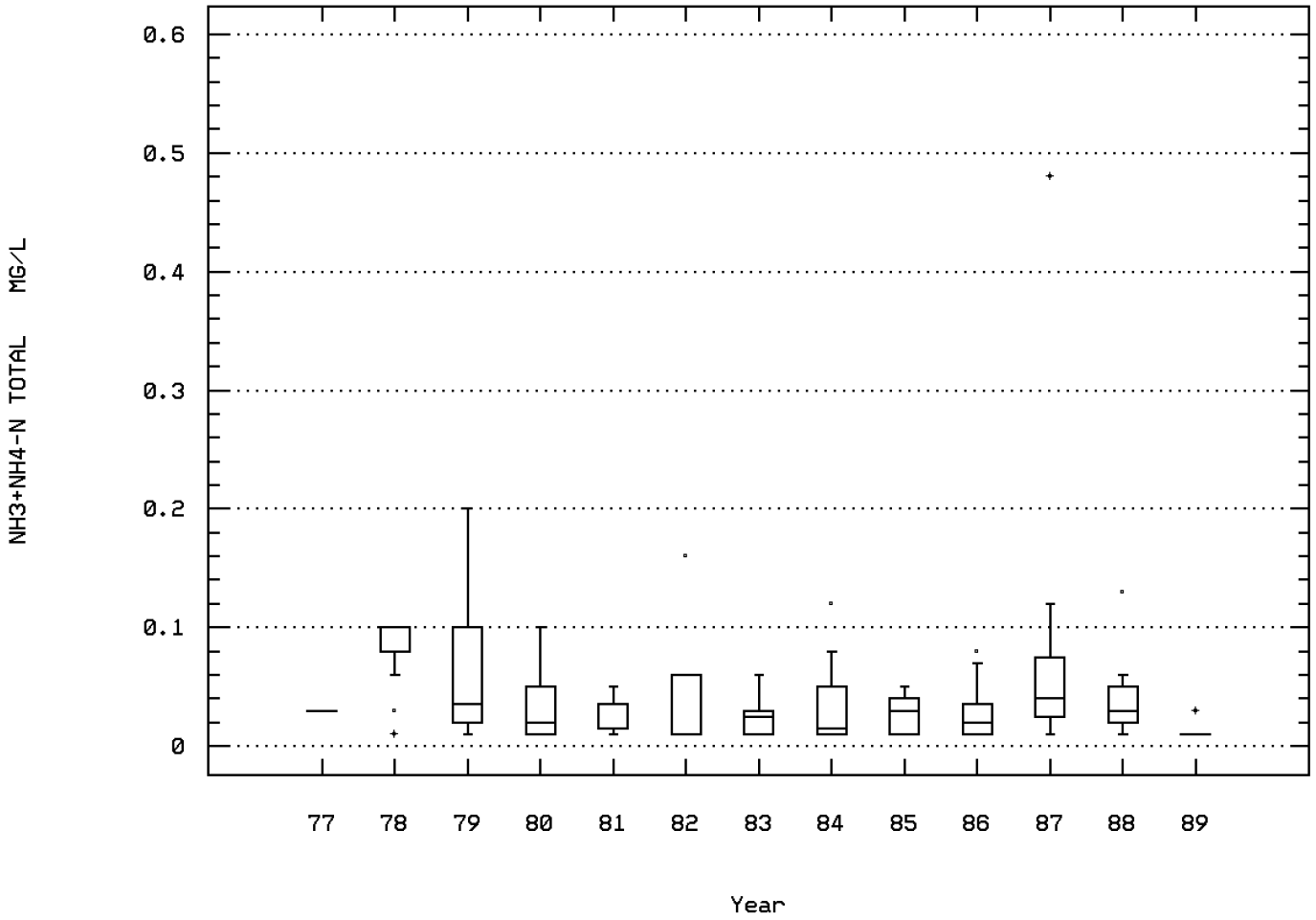
RESIDUE, TOTAL NONFILTRABLE (MG/L)



NIOBRARA RIVER S OF RIVERVIEW

Station: NIOB0005 Parameter Code: 00610

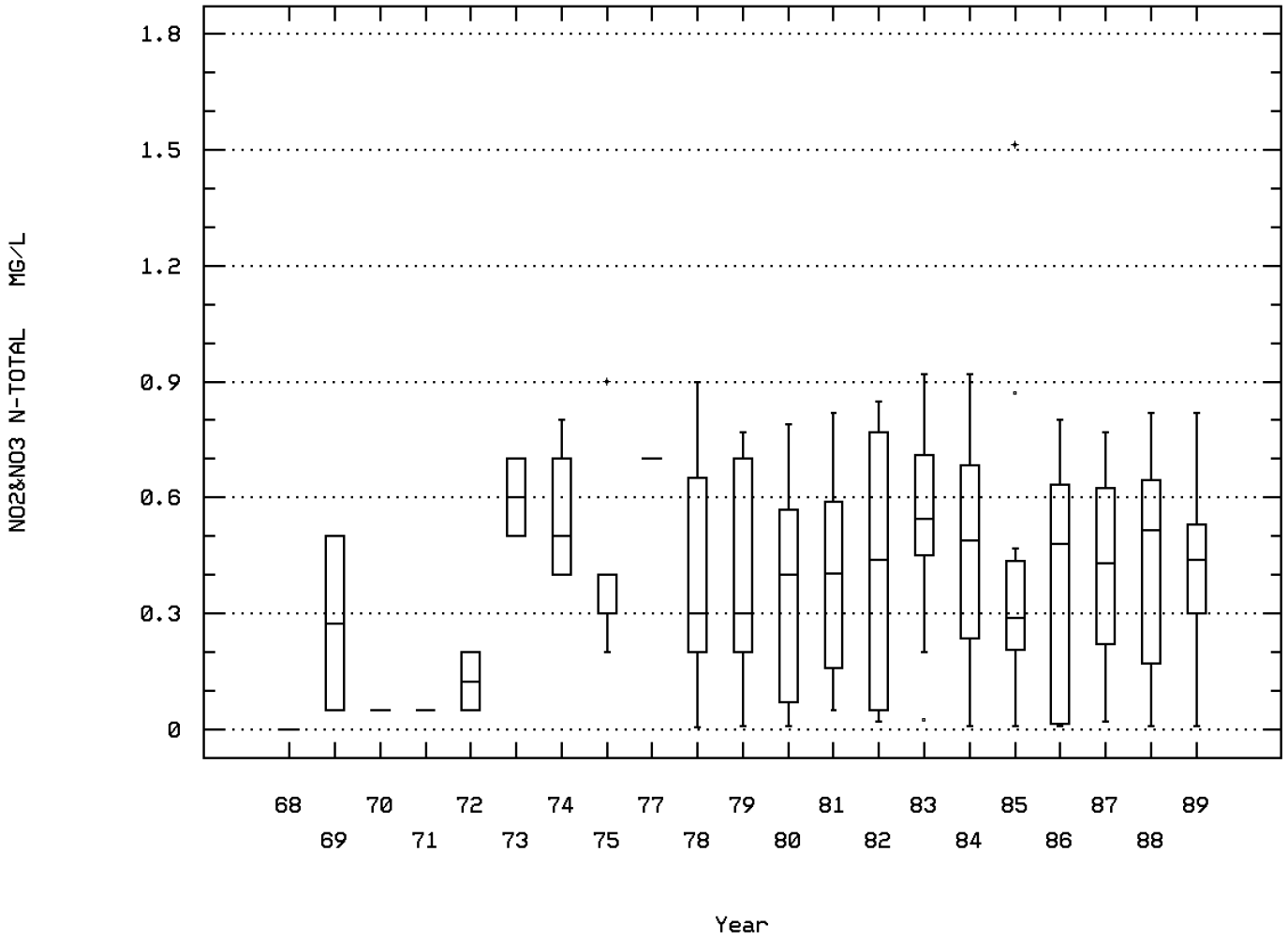
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



NIOBRARA RIVER S OF RIVERVIEW

Station: NIOB0005 Parameter Code: 00630

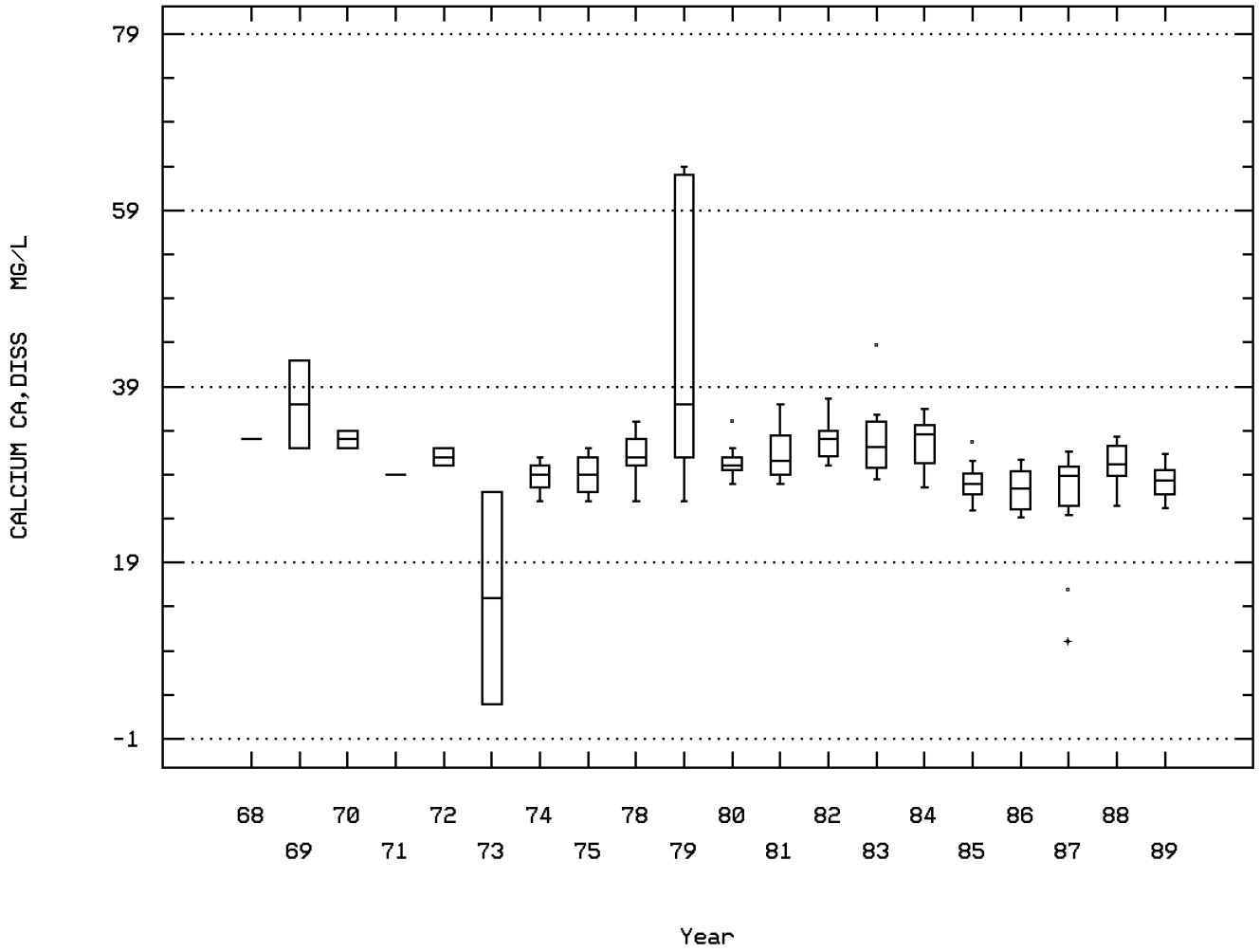
NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/



NIOBRARA RIVER S OF RIVERVIEW

Station: NIOB0005 Parameter Code: 00915

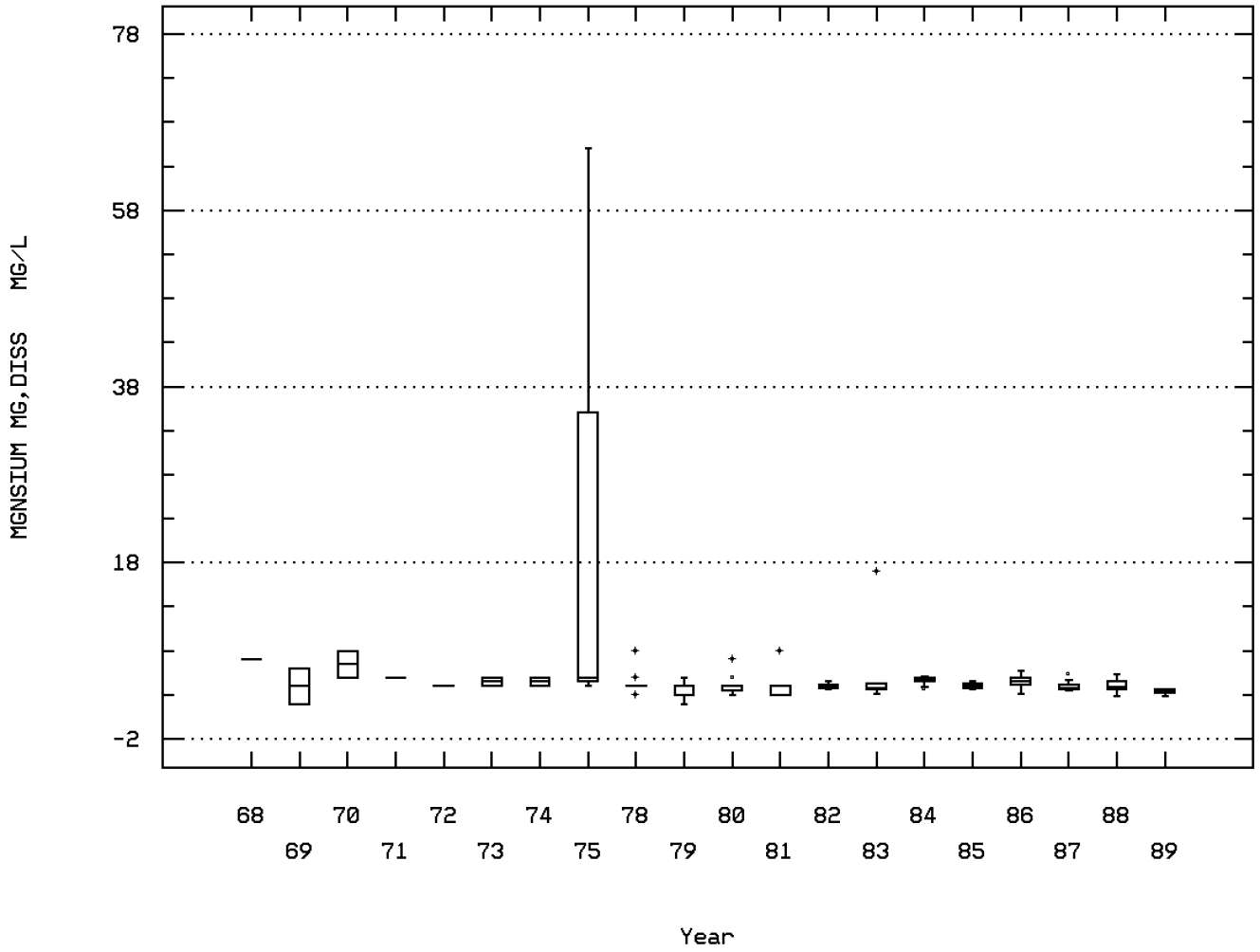
CALCIUM, DISSOLVED (MG/L AS CA)



NIOBRARA RIVER S OF RIVERVIEW

Station: NIOB0005 Parameter Code: 00925

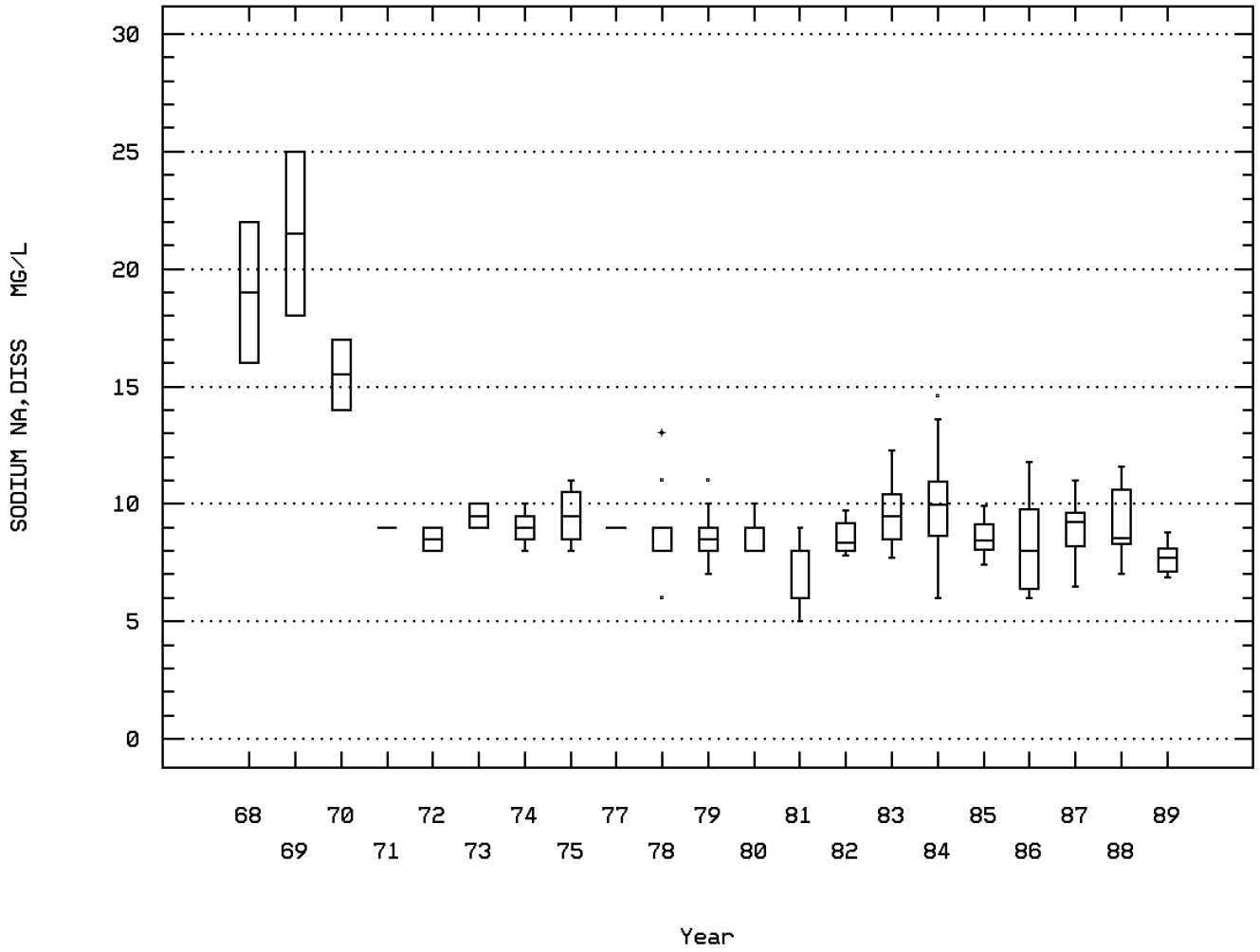
MAGNESIUM, DISSOLVED (MG/L AS MG)



NIOBRARA RIVER S OF RIVERVIEW

Station: NIOB0005 Parameter Code: 00930

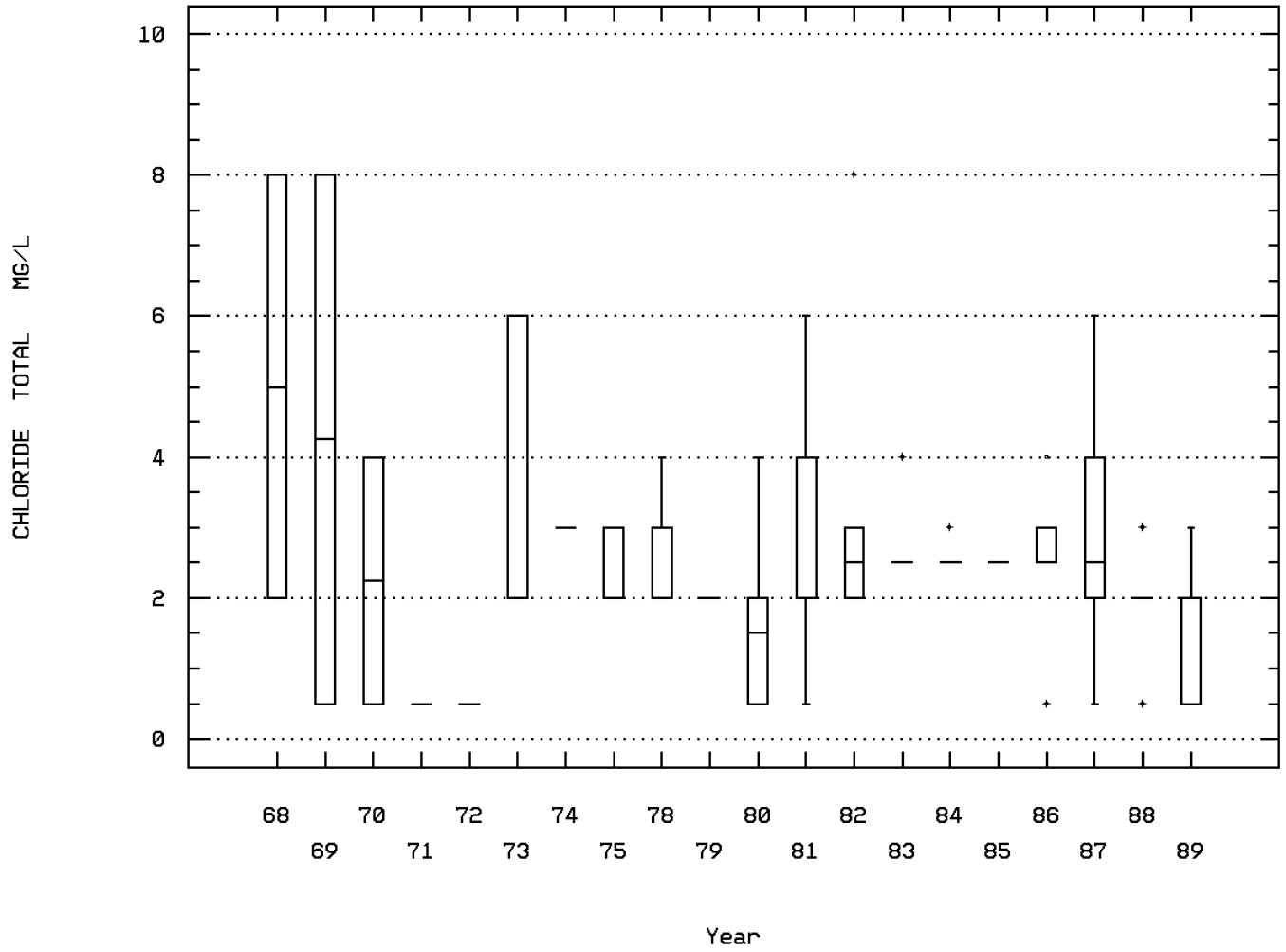
SODIUM, DISSOLVED (MG/L AS NA)



NIOBRARA RIVER S OF RIVERVIEW

Station: NIOB0005 Parameter Code: 00940

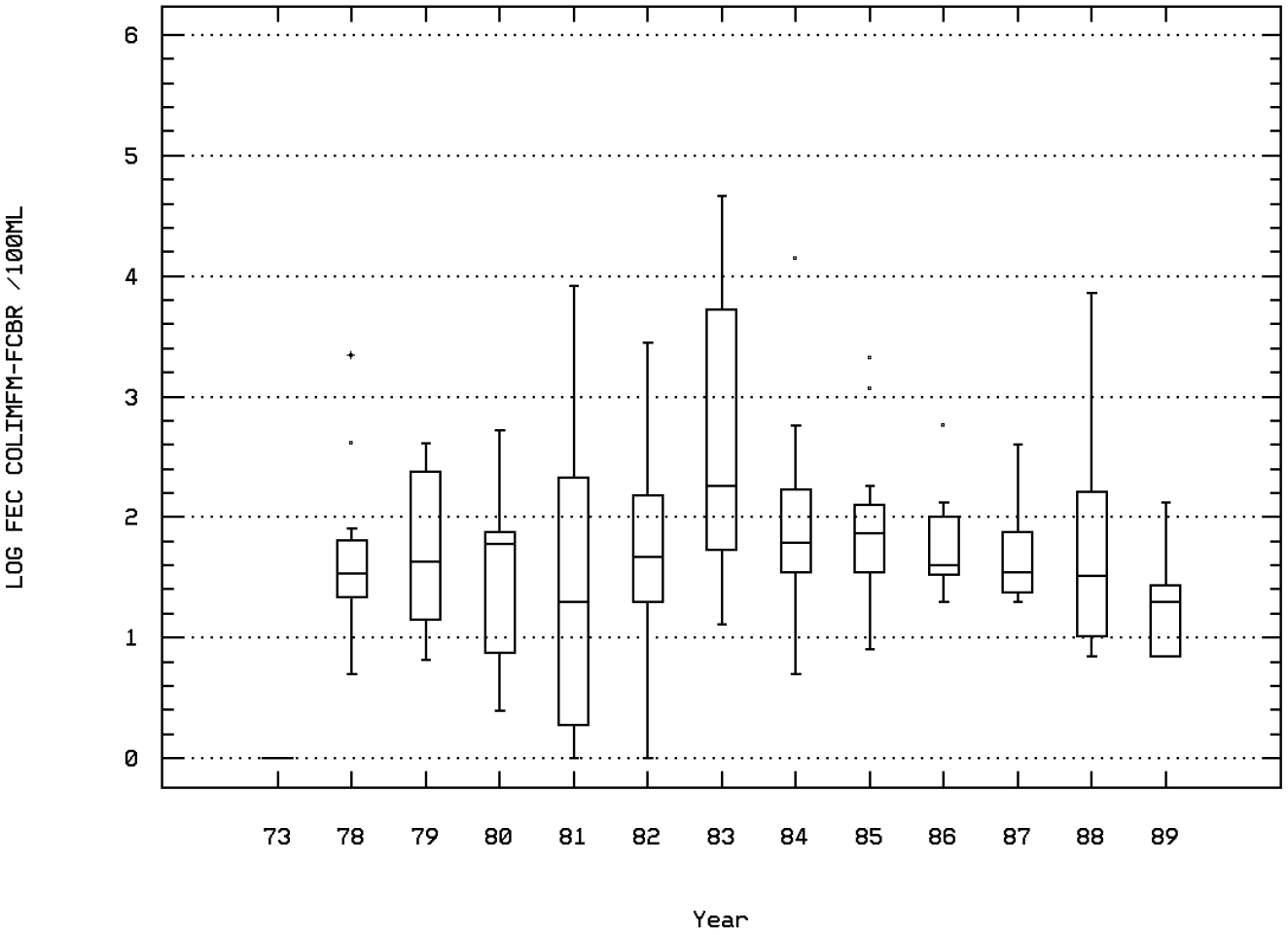
CHLORIDE,TOTAL IN WATER



NIOBRARA RIVER S OF RIVERVIEW

Station: NIOB0005 Parameter Code: 31616

LOG FECAL COLIFORM,MEMBR FILTER,M-FC BR



NIOBRARA RIVER S OF RIVERVIEW

Seasonal Analysis for Season #1: 8/01 to 1/14 - Station NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-09/18/89	67	11.	11.594	30.	0.	93.476	9.668	0.	1.	20.	25.1
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/16/68-12/14/77	9	19.	10.367	28.	-32.	321.293	17.925	0.5	10.55	26.	-32.
00057	FLOW, INDICATES IT HAS BEEN CHECKED	02/20/80-09/22/86	19	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060	FLOW, STREAM, MEAN DAILY CFS	05/16/68-09/22/86	43	982.	1019.93	1537.	629.	57442.447	239.672	724.	833.	1180.	1384.4
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/16/68-12/14/77	11	15.	55.545	466.	4.	18563.873	136.249	5.2	11.	21.	377.8
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-09/18/89	68	221.5	222.971	378.	47.	1320.268	36.335	196.8	210.	234.	248.2
00300	OXYGEN, DISSOLVED MG/L	05/16/68-09/18/89	66	10.45	10.442	13.9	6.	4.139	2.034	7.97	8.65	12.425	13.06
00335	COD, .025N K2CR2O7 MG/L	05/30/79-03/30/87	15	17.1	18.54	47.5	2.5	156.457	12.508	4.	7.1	28.	38.14
00340	COD, .25N K2CR2O7 MG/L	12/14/77-09/18/89	40	18.5	31.088	248.	1.5	2216.358	47.078	3.65	9.125	27.75	83.9
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	50	8.1	8.074	9.2	7.2	0.113	0.336	7.62	8.	8.2	8.49
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	50	8.1	7.936	9.2	7.2	0.132	0.364	7.62	8.	8.2	8.49
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	50	0.008	0.012	0.063	0.001	0.	0.012	0.003	0.006	0.01	0.024
00403	PH, LAB, STANDARD UNITS SU	08/23/83-09/18/89	29	7.9	7.962	8.6	7.2	0.12	0.346	7.6	7.7	8.2	8.6
00403	CONVERTED PH, LAB, STANDARD UNITS	08/23/83-09/18/89	29	7.9	7.834	8.6	7.2	0.137	0.37	7.6	7.7	8.2	8.6
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/83-09/18/89	29	0.013	0.015	0.063	0.003	0.	0.013	0.003	0.006	0.02	0.025
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/16/68-10/29/75	10	105.5	104.5	116.	95.	39.167	6.258	95.1	99.	108.	115.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-09/18/89	58	81.5	99.569	504.	2.	6622.636	81.38	37.8	60.75	102.25	179.1
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-09/18/89	58	0.03	0.043	0.48	0.01	0.005	0.067	0.01	0.01	0.05	0.1
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-09/18/89	68	0.47	0.436	0.92	0.	0.068	0.262	0.02	0.2	0.648	0.772
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/21/80-09/18/89	47	0.14	0.151	0.54	0.01	0.011	0.105	0.04	0.08	0.18	0.284
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/20/81-09/18/89	38	2.8	3.126	9.8	0.5	2.69	1.64	1.7	2.175	3.3	6.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/16/68-10/29/75	10	92.	87.	112.	28.	534.444	23.118	33.3	81.	101.75	111.2
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-09/18/89	67	30.4	31.76	64.	3.	78.704	8.872	26.	28.8	33.	35.16
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-09/18/89	65	4.	4.162	8.	2.9	0.696	0.834	3.42	3.7	4.5	5.
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-09/18/89	66	8.79	8.75	16.	6.	2.39	1.546	7.07	8.	9.	10.03
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/68-10/29/75	10	6.	5.9	8.	3.	2.767	1.663	3.1	4.75	7.25	8.
00940	CHLORIDE,TOTAL IN WATER MG/L	05/16/68-09/18/89	68	2.	2.029	8.	0.5	1.462	1.209	0.5	1.	2.5	3.
00945	SULFATE, TOTAL (MG/L AS SO4)	05/16/68-10/29/75	10	3.	6.25	29.	0.5	78.625	8.867	0.55	1.75	6.5	27.5
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	58	53.	918.259	14000.	0.	6555339.537	2560.34	7.45	20.	252.5	2890.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	58	1.724	1.91	4.146	0.	0.812	0.901	0.872	1.301	2.402	3.459
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			81.244								

** - 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: 1/15 to 3/09 - Station NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-09/18/89	21	0.5	1.071	5.	-1.	2.532	1.591	0.	0.	2.5	4.8
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/16/68-12/14/77	1	-6.7	-6.7	-6.7	-6.7	0.	0.	**	**	**	**
00057	FLOW, INDICATES IT HAS BEEN CHECKED	02/20/80-09/22/86	7	0.	0.	0.	0.	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	05/16/68-09/22/86	12	1110.	1096.583	1507.	556.	70156.083	264.87	654.4	897.75	1232.75	1495.6
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/16/68-12/14/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-09/18/89	21	214.	220.619	312.	180.	765.348	27.665	197.6	200.5	230.	256.
00300	OXYGEN, DISSOLVED MG/L	05/16/68-09/18/89	21	12.5	12.395	13.8	10.6	0.473	0.688	11.54	12.	12.85	13.2
00335	COD, .025N K2CR2O7 MG/L	05/30/79-03/30/87	4	26.25	24.725	43.9	2.5	323.803	17.995	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	12/14/77-09/18/89	16	12.5	16.875	71.	2.5	323.55	17.987	2.5	4.25	22.5	48.6
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	16	7.9	7.919	8.5	7.4	0.068	0.261	7.61	7.7	8.075	8.29
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	16	7.9	7.848	8.5	7.4	0.074	0.271	7.61	7.7	8.075	8.29
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	16	0.013	0.014	0.04	0.003	0.	0.009	0.005	0.008	0.02	0.026
00403	PH, LAB, STANDARD UNITS SU	08/23/83-09/18/89	11	7.9	7.864	8.1	7.7	0.017	0.129	7.7	7.7	7.9	8.08
00403	CONVERTED PH, LAB, STANDARD UNITS	08/23/83-09/18/89	11	7.9	7.847	8.1	7.7	0.017	0.13	7.7	7.7	7.9	8.08
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/83-09/18/89	11	0.013	0.014	0.02	0.008	0.	0.004	0.008	0.013	0.02	0.02
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/16/68-10/29/75	1	103.	103.	103.	103.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-09/18/89	20	60.	83.55	227.	5.	4795.313	69.248	14.7	31.75	119.75	217.1
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-09/18/89	20	0.03	0.038	0.1	0.01	0.001	0.03	0.01	0.02	0.055	0.098
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-09/18/89	21	0.77	0.782	1.51	0.57	0.037	0.193	0.584	0.685	0.82	0.9
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/21/80-09/18/89	15	0.15	0.169	0.5	0.02	0.014	0.118	0.038	0.07	0.19	0.374

** - 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: 1/15 to 3/09 - Station NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/20/81-09/18/89	13	2.6	2.9	5.8	1.8	1.533	1.238	1.84	1.95	3.15	5.52
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/16/68-10/29/75	1	91.	91.	91.	91.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-09/18/89	21	28.	28.29	33.8	10.	22.603	4.754	25.72	27.4	30.7	32.88
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-09/18/89	21	4.	3.986	5.	3.	0.241	0.491	3.06	3.8	4.3	4.66
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-09/18/89	20	8.	8.185	10.	6.5	0.827	0.909	6.94	7.725	8.5	9.95
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/68-10/29/75	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/16/68-09/18/89	21	2.5	2.143	4.	0.5	0.929	0.964	1.	1.	2.5	3.8
00945	SULFATE, TOTAL (MG/L AS SO4)	05/16/68-10/29/75	1	6.	6.	6.	6.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	20	36.	40.425	100.	0.	881.507	29.69	2.95	19.5	52.5	99.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	20	1.556	1.423	2.	0.	0.267	0.517	0.443	1.287	1.72	1.995
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			26.506								

** - 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: 3/10 to 7/31 - Station NIOB0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-09/18/89	68	20.	18.087	32.	0.	81.632	9.035	5.68	10.	25.875	28.05
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/16/68-12/14/77	9	16.	17.644	33.	2.	130.238	11.412	2.	7.9	29.5	33.
00057	FLOW, INDICATES IT HAS BEEN CHECKED	02/20/80-09/22/86	16	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060	FLOW, STREAM, MEAN DAILY CFS	05/16/68-09/22/86	46	1131.5	1215.761	2260.	622.	123546.675	351.492	812.7	988.	1384.75	1762.8
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/16/68-12/14/77	10	30.5	34.1	78.	9.	501.878	22.403	9.7	16.	49.	76.3
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-09/18/89	68	237.	233.691	303.	135.	790.217	28.111	207.2	219.25	248.75	265.5
00300	OXYGEN, DISSOLVED MG/L	05/16/68-09/18/89	66	8.65	9.244	13.4	6.4	2.599	1.612	7.67	8.1	10.425	11.73
00335	COD, .025N K2CR2O7 MG/L	05/30/79-03/30/87	10	31.5	30.21	47.4	13.4	93.497	9.669	14.27	23.15	36.45	46.56
00340	COD, .25N K2CR2O7 MG/L	12/14/77-09/18/89	49	26.	34.816	184.	1.	1282.549	35.813	1.5	11.	42.5	74.
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	65	8.2	8.188	8.8	7.4	0.09	0.301	7.8	8.1	8.3	8.6
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	65	8.2	8.077	8.8	7.4	0.103	0.321	7.8	8.1	8.3	8.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	65	0.006	0.008	0.04	0.002	0.	0.007	0.003	0.005	0.008	0.016
00403	PH, LAB, STANDARD UNITS SU	08/23/83-09/18/89	26	8.2	8.227	8.8	7.8	0.071	0.266	7.9	8.	8.425	8.6
00403	CONVERTED PH, LAB, STANDARD UNITS	08/23/83-09/18/89	26	8.189	8.155	8.8	7.8	0.076	0.276	7.9	8.	8.425	8.6
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/83-09/18/89	26	0.006	0.007	0.016	0.002	0.	0.004	0.003	0.004	0.01	0.013
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/16/68-10/29/75	10	110.	111.3	120.	101.	45.122	6.717	101.2	106.75	117.75	120.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-09/18/89	59	119.	135.559	676.	30.	11138.113	105.537	44.	61.	189.	228.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-09/18/89	59	0.02	0.04	0.2	0.01	0.002	0.039	0.01	0.01	0.06	0.1
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-09/18/89	68	0.295	0.264	0.92	0.	0.05	0.223	0.01	0.05	0.438	0.521
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/21/80-09/18/89	48	0.15	0.178	0.8	0.01	0.019	0.138	0.06	0.093	0.218	0.35
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/20/81-09/18/89	39	4.5	4.918	13.7	2.1	5.885	2.426	2.4	3.5	5.9	9.1
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/16/68-10/29/75	9	96.	99.222	112.	92.	50.444	7.102	92.	93.5	106.	112.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-09/18/89	66	30.6	30.902	43.6	15.9	17.435	4.176	26.	28.575	33.025	36.15
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-09/18/89	66	4.	5.338	65.	2.	59.266	7.698	3.	3.7	4.9	5.65
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-09/18/89	67	9.2	9.914	25.	5.	11.052	3.324	7.	8.	10.7	13.12
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/68-10/29/75	8	6.5	6.75	9.	5.	1.643	1.282	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/16/68-09/18/89	69	2.	2.312	8.	0.5	2.435	1.56	0.5	1.	2.5	4.
00945	SULFATE, TOTAL (MG/L AS SO4)	05/16/68-10/29/75	10	5.	5.4	10.	2.	8.489	2.914	2.	2.75	8.	9.8
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	59	43.	1026.847	46000.	0.	36066948.442	6005.576	3.5	19.	110.	580.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-09/18/89	59	1.633	1.683	4.663	0.	0.783	0.885	0.544	1.279	2.041	2.763
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			48.183								

** - 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: NIOB0006

NPS Station ID: NIOB0006
LAT/LON: 42.681115/ -99.586116
Agency: 21NEB001
Date Created: 05/07/88
Location: ELK CREEK
FIPS State/County: 31149 NEBRASKA/ROCK
Station Type: /TYPA/AMBNT/STREAM/BIO
STORET Station ID(s): NI3114
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id: NENI3-11800
Minor Basin:
ECO Region: 44G
RF1 Index: 10150004
RF1 Mile Point: 0.000
Distance from RF1: 32.20
On/Off RF1:
RF3 Index: 10150004005802.40
RF3 Mile Point: 4.67
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: NIOB0006

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th

******** No Parameter Data at this Station Suitable for Statistical Analysis ********

Station Inventory for Station: NIOB0007

NPS Station ID: NIOB0007
LAT/LON: 42.716948/ -99.592504
Agency: 21NEB001
Date Created: 05/07/88
Location: SAND CREEK
FIPS State/County: 31149 NEBRASKA/ROCK
Station Type: /TYPA/AMBNT/STREAM/BIO
STORET Station ID(s): NI3115
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id: NENI3-12000
Minor Basin:
ECO Region: 44G
RF1 Index: 10150004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10150004298800.00
RF3 Mile Point: 2.99
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: NIOB0007

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th

******** No Parameter Data at this Station Suitable for Statistical Analysis ********

Station Inventory for Station: NIOB0008

NPS Station ID: NIOB0008
LAT/LON: 42.701142/ -99.634115
Agency: 21NEB001
Date Created: / /
Location: LONG PINE CREEK AT RIVERVIEW
FIPS State/County: 31149 NEBRASKA/ROCK
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 300973
RMI-Indexes: 1021500
Within Park Boundary: No
RMI-Miles: 1149.40
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 0
Water Body Id:
Minor Basin: NIOBRARA
ECO Region:
RF1 Index: 10150004027
RF1 Mile Point: 2.010
Distance from RF1: 15.10
On/Off RF1: ON
RF3 Index: 10150004266200.00
RF3 Mile Point: 0.43
Distance from RF3: 0.01
On/Off RF3:
Description:
T32N R20W SEC 27 DD ROCK COUNTY 5 MILES N OF JCT 7 & 20 2 MILES W 1 MILE N 2 MILES W 2 MILES N 0.5 MILES W & 1.5 MILES NW OF BASSETT ON CO RD BR 11-17-78 NO SAMPLES TAKEN: 83/11, 83/12,
W 2 MILES N 0.5 MILES W & 1.5 MILES NW OF BASSETT ON CO RD BR 1-15-77

Parameter Inventory for Station: NIOB0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-01/10/84	27	14.5	13.956	24.	2.5	53.707	7.329	3.4	7.2	21.	23.6
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/08/69-11/16/77	22	25.	20.464	45.	1.	138.539	11.77	1.37	9.95	29.125	31.7
00032	CLOUD COVER (PERCENT)	08/30/70-10/20/76	17	8.	22.529	100.	0.	913.14	30.218	0.	0.	45.	80.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/68-11/16/77	25	16.	25.88	176.	5.	1151.61	33.935	7.6	10.5	27.	50.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-01/10/84	28	180.	183.857	260.	100.	959.46	30.975	159.2	169.25	195.25	231.
00300	OXYGEN, DISSOLVED MG/L	05/15/68-01/10/84	27	9.2	9.607	13.2	6.6	2.599	1.612	8.	8.4	11.2	11.72
00310	BOD, 5 DAY, 20 DEG C MG/L	10/03/73-11/16/77	8	1.6	2.313	8.3	0.7	6.061	2.462	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	01/10/84-01/10/84	1	15.1	15.1	15.1	15.1	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	03/24/76-11/16/77	7	21.	40.571	166.	0.	3284.286	57.309	**	**	**	**
00400	PH (STANDARD UNITS)	05/08/69-11/16/77	23	7.9	7.943	8.5	6.9	0.138	0.372	7.34	7.8	8.2	8.36
00400	CONVERTED PH (STANDARD UNITS)	05/08/69-11/16/77	23	7.9	7.732	8.5	6.9	0.185	0.43	7.34	7.8	8.2	8.36
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/08/69-11/16/77	23	0.013	0.019	0.126	0.003	0.001	0.028	0.004	0.006	0.016	0.056
00403	PH, LAB, STANDARD UNITS SU	01/10/84-01/10/84	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	01/10/84-01/10/84	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/10/84-01/10/84	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	20	82.5	84.8	124.	67.	176.274	13.277	73.1	78.25	88.	113.2
00500	RESIDUE, TOTAL (MG/L)	05/15/68-05/08/69	3	276.	528.667	1058.	252.	210289.333	458.573	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/08/69-05/08/69	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-11/16/77	23	138.	142.913	210.	68.	1002.81	31.667	103.	128.	162.	189.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/24/76-01/10/84	8	62.5	69.25	134.	16.	2585.357	50.846	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/03/73-01/10/84	9	0.03	0.421	3.5	0.	1.335	1.155	0.	0.	0.105	3.5
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-01/10/84	26	0.8	0.788	1.7	0.	0.198	0.445	0.05	0.575	1.125	1.33
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/15/68-10/04/72	9	0.6	0.678	1.8	0.3	0.194	0.441	0.3	0.45	0.7	1.8
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	03/24/76-11/16/77	7	0.2	0.257	0.4	0.2	0.006	0.079	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/10/84-01/10/84	1	0.27	0.27	0.27	0.27	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/10/84-01/10/84	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
00700	ACIDS, TOTAL VOLATILE (MG/L AS ACETIC ACID)	12/10/73-12/10/73	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	20	74.	75.75	124.	23.	507.145	22.52	28.6	71.	87.	103.2
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-01/10/84	19	24.	21.068	27.3	3.	49.367	7.026	4.	22.	24.	27.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-01/10/84	18	4.	5.072	12.	3.	7.4	2.72	3.	3.225	6.25	11.1
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-01/10/84	26	8.	9.096	21.	6.	13.4	3.661	7.	7.	9.25	14.4

** - 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 time series plot

Parameter Inventory for Station: NIOB0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00931	SODIUM ADSORPTION RATIO	05/15/68-05/15/75	17	0.4	0.476	1.	0.1	0.052	0.228	0.26	0.4	0.55	0.92
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/68-10/29/75	19	5.	5.579	10.	3.	2.146	1.465	4.	5.	6.	7.
00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-01/10/84	28	2.	2.25	6.	0.	2.806	1.675	0.45	0.625	3.	5.1
00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/68-10/29/75	19	3.	3.053	9.	0.5	5.442	2.333	0.5	1.	4.	7.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/15/68-12/10/73	4	0.24	6.633	26.	0.05	166.719	12.912	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/08/69-05/08/69	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/08/69-05/08/69	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/15/68-05/08/69	3	300.	416.667	900.	50.	190833.333	436.845	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/15/68-05/15/68	1	300.	300.	300.	300.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/15/68-05/08/69	3	50.	117.	300.	1.	25717.	160.365	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-01/10/84	9	183.	1550.444	10600.	0.	11928906.028	3453.825	0.	10.	1400.	10600.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-01/10/84	9	2.262	2.015	4.025	0.	1.921	1.386	0.	0.651	3.105	4.025
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			103.623								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	01/10/84-01/10/84	1	13000.	13000.	13000.	13000.	0.	0.	**	**	**	**
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	01/10/84-01/10/84	1	4.114	4.114	4.114	4.114	0.	0.	**	**	**	**
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			13000.								

** - 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: NIOB0008

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/01-1/14---------- Obs	Exceed	Prop.	----------1/15-3/09---------- Obs	Exceed	Prop.	----------3/10-7/31---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	25	2	0.08	13	1	0.08	1	0	0.00	11	1	0.09			
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	27	0	0.00	14	0	0.00	1	0	0.00	12	0	0.00			
00400	PH	Other-Hi Lim.	9.	23	0	0.00	12	0	0.00	1	0	0.00	10	0	0.00			
		Other-Lo Lim.	6.5	23	0	0.00	12	0	0.00	1	0	0.00	10	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									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	26	0	0.00	15	0	0.00	1	0	0.00	10	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	28	0	0.00	15	0	0.00	1	0	0.00	12	0	0.00			
		Drinking Water	250.	28	0	0.00	15	0	0.00	1	0	0.00	12	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	19	0	0.00	9	0	0.00	1	0	0.00	9	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	4	1	0.25	2	1	0.50				2	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	0 &	0	0.00												
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	3	1	0.33	1	0	0.00				2	1	0.50			
		Drinking Water	5000.	3	0	0.00	1	0	0.00				2	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	9	4	0.44	5	2	0.40				4	2	0.50			

& - 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: 8/01 to 1/14 - Station NIOB0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-01/10/84	14	13.	12.214	21.	3.	39.031	6.247	3.5	6.4	19.125	20.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/08/69-11/16/77	10	15.8	17.19	32.	1.	112.392	10.602	1.6	9.1	26.875	31.75
00032	CLOUD COVER (PERCENT)	08/30/70-10/20/76	9	5.	27.778	100.	0.	1450.694	38.088	0.	0.	62.5	100.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/68-11/16/77	13	11.	17.308	65.	5.	242.731	15.58	5.8	8.5	21.	48.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-01/10/84	15	170.	181.333	230.	152.	549.381	23.439	156.8	162.	197.	224.
00300	OXYGEN, DISSOLVED MG/L	05/15/68-01/10/84	14	9.7	9.821	11.6	6.6	2.305	1.518	7.5	8.65	11.225	11.5
00400	PH (STANDARD UNITS)	05/08/69-11/16/77	12	8.1	8.	8.5	6.9	0.173	0.416	7.14	7.9	8.2	8.47
00400	CONVERTED PH (STANDARD UNITS)	05/08/69-11/16/77	12	8.089	7.725	8.5	6.9	0.255	0.505	7.14	7.9	8.2	8.47
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/08/69-11/16/77	12	0.008	0.019	0.126	0.003	0.001	0.034	0.003	0.006	0.013	0.094
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	10	83.	85.2	124.	67.	232.178	15.237	67.7	76.25	88.	120.4
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-11/16/77	14	134.	143.071	190.	95.	816.533	28.575	105.	123.	166.	189.
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-01/10/84	15	0.9	0.81	1.7	0.	0.281	0.53	0.03	0.2	1.3	1.52
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	10	72.5	73.1	104.	24.	413.433	20.333	28.7	71.	85.	102.4
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-01/10/84	11	22.	20.118	27.3	3.	46.314	6.805	5.2	16.	24.	26.64
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-01/10/84	11	4.	5.755	12.	3.	10.663	3.265	3.	3.3	8.	11.8
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-01/10/84	14	8.	8.821	20.	7.	11.062	3.326	7.	7.	8.625	15.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/68-10/29/75	10	5.5	5.7	10.	3.	3.567	1.889	3.1	4.75	6.25	9.7
00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-01/10/84	15	2.	2.067	6.	0.	3.138	1.771	0.	0.5	3.	5.4
00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/68-10/29/75	9	3.	2.5	7.	0.5	4.188	2.046	0.5	0.5	3.	7.

** - 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: 1/15 to 3/09 - Station NIOB0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-01/10/84	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/08/69-11/16/77	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00032	CLOUD COVER (PERCENT)	08/30/70-10/20/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/68-11/16/77	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-01/10/84	1	220.	220.	220.	220.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/15/68-01/10/84	1	13.2	13.2	13.2	13.2	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/08/69-11/16/77	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/08/69-11/16/77	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/08/69-11/16/77	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	1	73.	73.	73.	73.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-11/16/77	1	130.	130.	130.	130.	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-01/10/84	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	1	73.	73.	73.	73.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-01/10/84	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-01/10/84	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-01/10/84	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/68-10/29/75	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-01/10/84	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/68-10/29/75	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 box-and-whisker plot

Seasonal Analysis for Season #3: 3/10 to 7/31 - Station NIOB0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-01/10/84	12	18.6	16.942	24.	3.5	55.301	7.436	3.95	11.575	23.375	24.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/08/69-11/16/77	11	27.2	23.027	45.	1.1	169.774	13.03	1.28	16.	29.5	42.2
00032	CLOUD COVER (PERCENT)	08/30/70-10/20/76	7	10.	19.	50.	0.	360.333	18.982	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/68-11/16/77	11	26.	37.182	176.	8.	2219.964	47.116	8.6	15.	32.	149.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-01/10/84	12	180.	184.	260.	100.	1528.364	39.094	118.	175.	188.75	254.

** - 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: 3/10 to 7/31 - Station NIOB0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00300	OXYGEN, DISSOLVED MG/L	05/15/68-01/10/84	12	8.6	9.058	12.2	7.6	1.859	1.363	7.75	8.1	9.375	11.9
00400	PH (STANDARD UNITS)	05/08/69-11/16/77	10	7.9	7.88	8.3	7.1	0.117	0.343	7.16	7.7	8.125	8.29
00400	CONVERTED PH (STANDARD UNITS)	05/08/69-11/16/77	10	7.9	7.727	8.3	7.1	0.143	0.379	7.16	7.7	8.125	8.29
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/08/69-11/16/77	10	0.013	0.019	0.079	0.005	0.	0.022	0.005	0.008	0.02	0.073
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	9	82.	85.667	116.	78.	139.	11.79	78.	79.5	86.	116.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-11/16/77	8	145.5	144.25	210.	68.	1609.357	40.117	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-01/10/84	10	0.8	0.715	1.1	0.05	0.089	0.298	0.095	0.575	0.925	1.09
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	9	76.	79.	124.	23.	717.75	26.791	23.	72.5	94.	124.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-01/10/84	7	24.	22.286	27.	4.	66.905	8.18	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-01/10/84	6	4.	4.	6.	3.	1.2	1.095	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-01/10/84	11	8.	9.636	21.	6.	18.255	4.273	6.2	7.	12.	19.2
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/68-10/29/75	8	5.5	5.5	7.	4.	0.857	0.926	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-01/10/84	12	2.5	2.5	6.	0.5	2.773	1.665	0.5	1.	3.75	5.4
00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/68-10/29/75	9	3.	3.833	9.	0.5	6.5	2.55	0.5	2.	5.5	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

Station Inventory for Station: NIOB0009

NPS Station ID: NIOB0009
LAT/LON: 42.702504/ -99.638059
Agency: 21NEB001
Date Created: 05/07/88
Location: SHORT PINE CREEK
FIPS State/County: 31149 NEBRASKA/ROCK
Station Type: /TYPA/AMBNT/STREAM/BIO
STORET Station ID(s): NI3117
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id: NENI3-12210
Minor Basin:
ECO Region: 44G
RF1 Index: 10150004
RF1 Mile Point: 0.000
Distance from RF1: 4.70
On/Off RF1:
RF3 Index: 10150004298600.00
RF3 Mile Point: 0.32
Distance from RF3: 0.08
On/Off RF3:
Description:

Parameter Inventory for Station: NIOB0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th

******** No Parameter Data at this Station Suitable for Statistical Analysis ********

Station Inventory for Station: NIOB0010

NPS Station ID: NIOB0010
LAT/LON: 42.689170/ -99.678615
Agency: 21NEB001
Date Created: 01/28/84
Location: LONG PINE CREEK BLW CNFL BONE CR
FIPS State/County: 31017 NEBRASKA/BROWN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 300899
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 0
Water Body Id:
Minor Basin: NIOBRARA
ECO Region:
RF1 Index: 10150004027
RF1 Mile Point: 4.540
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10150004002900.32
RF3 Mile Point: 0.71
Distance from RF3: 0.01
On/Off RF3:
Description:
ON LEFT BANK 75 FT DOWNSTREAM FROM COUNTY ROAD BRIDGE, 10 MILES N OF HWY 20 ON ROCK/BROWN COUNTY LINE ROAD. SAME SITE AS USGS 06463500 AND DEC INTENSIVE SURVEY LP0008.

Parameter Inventory for Station: NIOB0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/21/84-04/12/93	95	11.5	13.068	26.	0.	52.844	7.269	4.	7.	20.	23.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/21/84-04/12/93	95	200.	199.032	300.	165.	258.818	16.088	183.	190.	206.	212.
00300	OXYGEN, DISSOLVED MG/L	02/21/84-04/12/93	92	10.	10.096	14.3	6.2	2.822	1.68	8.06	8.625	11.45	12.47
00335	COD, .025N K2CR2O7 MG/L	02/21/84-03/30/87	21	12.8	16.967	67.9	2.4	282.48	16.807	2.5	6.65	18.35	48.72
00340	COD, .25N K2CR2O7 MG/L	08/21/84-04/12/93	72	10.5	17.479	190.	2.	849.348	29.144	4.	4.	17.5	31.4
00400	PH (STANDARD UNITS)	03/28/84-09/18/89	51	8.1	8.094	8.7	7.2	0.097	0.311	7.6	7.9	8.3	8.48
00400	CONVERTED PH (STANDARD UNITS)	03/28/84-09/18/89	51	8.1	7.972	8.7	7.2	0.112	0.334	7.6	7.9	8.3	8.48
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/28/84-09/18/89	51	0.008	0.011	0.063	0.002	0.	0.01	0.003	0.005	0.013	0.025
00403	PH, LAB, STANDARD UNITS SU	02/21/84-04/12/93	90	8.	8.054	9.	7.4	0.104	0.323	7.7	7.8	8.2	8.6
00403	CONVERTED PH, LAB, STANDARD UNITS	02/21/84-04/12/93	90	8.	7.959	9.	7.4	0.113	0.336	7.7	7.8	8.2	8.6
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/21/84-04/12/93	90	0.01	0.011	0.04	0.001	0.	0.007	0.003	0.006	0.016	0.02
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/21/84-04/12/93	95	48.	97.463	1876.	2.	47972.719	219.027	16.6	31.	93.	151.4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/21/84-04/12/93	95	0.02	0.046	0.65	0.01	0.007	0.085	0.01	0.01	0.05	0.094
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/14/91-04/12/93	27 ##	0.25	0.489	1.1	0.25	0.083	0.289	0.25	0.25	0.75	1.
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/21/84-04/12/93	95	1.62	1.575	2.31	0.4	0.166	0.408	1.044	1.26	1.9	2.05
00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/21/84-04/12/93	95	0.22	0.277	2.32	0.01	0.073	0.27	0.14	0.18	0.28	0.378
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/21/84-11/16/92	90	2.35	3.523	18.3	1.	10.947	3.309	1.4	1.9	3.5	7.59
00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/21/84-04/12/93	95	23.5	23.065	33.5	7.4	9.941	3.153	19.36	21.9	24.7	25.6
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/21/84-04/12/93	95	3.5	3.552	7.8	2.1	0.444	0.666	2.96	3.2	3.7	4.
00930	SODIUM, DISSOLVED (MG/L AS NA)	02/21/84-04/12/93	95	7.4	7.392	12.2	2.5	1.753	1.324	5.86	6.9	8.	8.88
00940	CHLORIDE,TOTAL IN WATER MG/L	02/21/84-04/12/93	95	2.5	3.105	11.	0.5	2.324	1.524	2.	2.	3.	5.
01002	ARSENIC, TOTAL (UG/L AS AS)	11/04/91-11/04/91	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	11/04/91-11/04/91	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	11/04/91-11/04/91	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	11/04/91-11/04/91	1 ##	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	11/04/91-11/04/91	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	11/04/91-11/04/91	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	11/04/91-11/04/91	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	11/04/91-11/04/91	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/21/84-04/12/93	94	101.5	1605.266	73000.	7.	61076510.95	7815.146	10.	32.75	440.	2430.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/21/84-04/12/93	94	2.006	2.127	4.863	0.845	0.739	0.86	1.	1.515	2.643	3.377
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			133.833								
31648	E. COLI - MTEC-MF N0/100ML	06/23/87-09/18/89	27	40.	3333.333	80000.	7.	237094121.308	15397.861	7.	7.	153.	1952.

** - 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: NIOB0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31648	LOG E. COLI - MTEC-MF N0/1	06/23/87-09/18/89	27	1.602	1.72	4.903	0.845	0.978	0.989	0.845	0.845	2.185	2.895
31648	GM E. COLI - MTEC-MF N0/10	GEOMETRIC MEAN =			52.461								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	02/21/84-04/12/93	93	108.	2942.172	124000.	7.	269475087.361	16415.696	26.4	45.	363.	1640.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	02/21/84-04/12/93	93	2.033	2.196	5.093	0.845	0.588	0.767	1.422	1.653	2.56	3.197
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			157.009								
71900	MERCURY, TOTAL (UG/L AS HG)	11/04/91-11/04/91	1 ##	0.2	0.2	0.2	0.2	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: NIOB0010

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	92	0	0.00	36	0	0.00	14	0	0.00	42	0	0.00			
00400	PH	Other-Hi Lim.	9.	51	0	0.00	16	0	0.00	6	0	0.00	29	0	0.00			
		Other-Lo Lim.	6.5	51	0	0.00	16	0	0.00	6	0	0.00	29	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	90	1	0.01	36	0	0.00	15	0	0.00	39	1	0.03			
		Other-Lo Lim.	6.5	90	0	0.00	36	0	0.00	15	0	0.00	39	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	95	0	0.00	37	0	0.00	15	0	0.00	43	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	95	0	0.00	37	0	0.00	15	0	0.00	43	0	0.00			
		Drinking Water	250.	95	0	0.00	37	0	0.00	15	0	0.00	43	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									
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									
01034	CHROMIUM, TOTAL	Drinking Water	100.	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									
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									
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									
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									
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									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	94	31	0.33	37	12	0.32	15	1	0.07	42	18	0.43			
31648	E. COLI, MTEC, MF	Other	126.	27	8	0.30	11	2	0.18	4	0	0.00	12	6	0.50			
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

Annual Analysis for 1984 - Station NIOB0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/21/84-04/12/93	11	11.	12.909	24.5	3.	72.291	8.502	3.	5.	23.	24.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/21/84-04/12/93	11	187.	185.727	230.	165.	376.818	19.412	165.2	166.	197.	224.
00300	OXYGEN, DISSOLVED MG/L	02/21/84-04/12/93	11	10.	9.555	12.8	6.2	5.523	2.35	6.32	7.2	11.8	12.72
00340	COD, .25N K2CR2O7 MG/L	08/21/84-04/12/93	1	153.	153.	153.	153.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	02/21/84-04/12/93	11	7.8	7.864	8.4	7.6	0.055	0.234	7.62	7.7	7.9	8.36
00403	CONVERTED PH, LAB, STANDARD UNITS	02/21/84-04/12/93	11	7.8	7.818	8.4	7.6	0.057	0.238	7.62	7.7	7.9	8.36
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/21/84-04/12/93	11	0.016	0.015	0.025	0.004	0.	0.006	0.004	0.013	0.02	0.024
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/21/84-04/12/93	11	77.	233.818	1876.	2.	299601.364	547.359	7.2	32.	88.	1543.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/21/84-04/12/93	11 ##	0.01	0.03	0.13	0.01	0.001	0.037	0.01	0.01	0.05	0.114
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/21/84-04/12/93	11	1.59	1.585	2.01	1.15	0.081	0.285	1.166	1.26	1.8	1.982
00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/21/84-04/12/93	11	0.25	0.341	1.33	0.17	0.109	0.33	0.176	0.21	0.28	1.124
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/21/84-11/16/92	11	1.9	4.1	18.3	1.3	24.804	4.98	1.32	1.7	4.6	15.96
00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/21/84-04/12/93	11	24.2	23.773	26.9	19.3	6.28	2.506	19.44	22.5	26.2	26.88
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/21/84-04/12/93	11	3.4	3.445	4.	2.6	0.223	0.472	2.64	3.2	3.9	4.
00930	SODIUM, DISSOLVED (MG/L AS NA)	02/21/84-04/12/93	11	7.2	7.205	10.	2.5	3.625	1.904	3.274	6.49	8.4	9.8
00940	CHLORIDE,TOTAL IN WATER MG/L	02/21/84-04/12/93	11 ##	2.5	3.636	7.	2.5	2.505	1.583	2.5	2.5	5.	6.6
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/21/84-04/12/93	11	260.	7008.091	73000.	54.	479167922.091	21889.905	62.2	130.	880.	58620.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/21/84-04/12/93	11	2.415	2.648	4.863	1.732	0.714	0.845	1.781	2.114	2.944	4.499
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			444.954								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	02/21/84-04/12/93	11	240.	12037.818	124000.	120.	1381260432.364	37165.312	129.2	170.	760.	100280.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	02/21/84-04/12/93	11	2.38	2.798	5.093	2.079	0.795	0.892	2.107	2.23	2.881	4.821
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			627.371								

** - 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 box-and-whisker plot

Annual Analysis for 1985 - Station NIOB0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/21/84-04/12/93	12	11.25	11.792	22.5	0.	60.066	7.75	0.75	3.75	18.625	22.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/21/84-04/12/93	12	189.5	192.5	210.	180.	93.545	9.672	180.9	184.25	200.	208.2
00300	OXYGEN, DISSOLVED MG/L	02/21/84-04/12/93	12	10.5	10.975	14.3	9.	3.295	1.815	9.03	9.4	12.7	13.97
00340	COD, .25N K2CR2O7 MG/L	08/21/84-04/12/93	9	19.	37.889	190.	7.	3348.611	57.867	7.	9.	32.	190.
00403	PH, LAB, STANDARD UNITS SU	02/21/84-04/12/93	12	7.85	7.883	8.3	7.4	0.072	0.269	7.49	7.7	8.075	8.3
00403	CONVERTED PH, LAB, STANDARD UNITS	02/21/84-04/12/93	12	7.847	7.81	8.3	7.4	0.078	0.28	7.49	7.7	8.075	8.3
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/21/84-04/12/93	12	0.014	0.016	0.04	0.005	0.	0.01	0.005	0.008	0.02	0.034
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/21/84-04/12/93	12	58.	102.75	318.	22.	10404.568	102.003	25.6	35.25	158.	307.8
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/21/84-04/12/93	12	0.03	0.033	0.06	0.01	0.	0.02	0.01	0.013	0.055	0.06
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/21/84-04/12/93	12	1.2	1.348	2.18	0.75	0.211	0.46	0.798	1.008	1.703	2.156
00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/21/84-04/12/93	12	0.195	0.218	0.78	0.01	0.037	0.193	0.022	0.14	0.253	0.624
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/21/84-11/16/92	11	1.9	3.109	8.5	1.4	4.995	2.235	1.42	1.7	4.3	7.92
00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/21/84-04/12/93	12	21.9	21.867	24.4	19.4	2.392	1.546	19.7	20.5	23.375	24.16
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/21/84-04/12/93	12	3.65	3.483	3.8	2.8	0.131	0.361	2.83	3.225	3.8	3.8
00930	SODIUM, DISSOLVED (MG/L AS NA)	02/21/84-04/12/93	12	7.3	7.375	9.1	6.	0.533	0.73	6.27	7.1	7.7	8.77
00940	CHLORIDE,TOTAL IN WATER MG/L	02/21/84-04/12/93	12 ##	2.5	2.5	2.5	2.5	0.	0.	2.5	2.5	2.5	2.5
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/21/84-04/12/93	12	135.	2614.5	17000.	25.	31925670.818	5650.281	27.1	58.75	1122.5	15476.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/21/84-04/12/93	12	2.097	2.403	4.23	1.398	0.893	0.945	1.43	1.768	2.991	4.184
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			252.74								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	02/21/84-04/12/93	12	178.5	920.083	7300.	27.	4195309.902	2048.246	28.2	37.75	927.5	5440.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	02/21/84-04/12/93	12	2.243	2.311	3.863	1.431	0.583	0.763	1.449	1.568	2.967	3.617
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			204.877								

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Annual Analysis for 1986 - Station NIOB0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/21/84-04/12/93	12	12.	12.25	25.	2.	55.159	7.427	2.3	5.625	19.25	23.8
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/21/84-04/12/93	12	203.	200.583	217.	178.	155.72	12.479	180.7	189.	211.	217.
00300	OXYGEN, DISSOLVED MG/L	02/21/84-04/12/93	12	10.65	10.617	13.1	8.2	2.774	1.666	8.32	9.1	12.175	12.92
00340	COD, .25N K2CR2O7 MG/L	08/21/84-04/12/93	5	12.	13.6	22.	7.	32.3	5.683	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	02/21/84-04/12/93	9	8.	8.144	8.9	7.6	0.153	0.391	7.6	7.9	8.45	8.9
00403	CONVERTED PH, LAB, STANDARD UNITS	02/21/84-04/12/93	9	8.	8.017	8.9	7.6	0.171	0.414	7.6	7.9	8.45	8.9
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/21/84-04/12/93	9	0.01	0.01	0.025	0.001	0.	0.007	0.001	0.004	0.013	0.025
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/21/84-04/12/93	12	77.	99.333	400.	36.	9541.879	97.683	37.8	51.	99.	310.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/21/84-04/12/93	12 ##	0.025	0.037	0.1	0.01	0.001	0.032	0.01	0.01	0.065	0.094
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/21/84-04/12/93	12	1.555	1.428	2.02	0.69	0.218	0.467	0.708	1.028	1.848	1.993
00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/21/84-04/12/93	12	0.265	0.272	0.49	0.13	0.01	0.102	0.142	0.193	0.318	0.463
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/21/84-11/16/92	12	3.55	5.625	16.6	1.2	23.069	4.803	1.32	2.325	8.225	15.4
00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/21/84-04/12/93	12	21.	20.375	23.5	16.1	6.164	2.483	16.7	18.15	22.95	23.41
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/21/84-04/12/93	12	3.75	4.15	7.8	2.1	2.395	1.548	2.34	3.2	5.3	7.17
00930	SODIUM, DISSOLVED (MG/L AS NA)	02/21/84-04/12/93	12	6.7	6.333	8.6	2.5	3.024	1.739	2.98	5.575	7.725	8.36
00940	CHLORIDE,TOTAL IN WATER MG/L	02/21/84-04/12/93	12	3.5	3.5	6.	0.5	3.091	1.758	0.65	2.5	5.	5.7
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/21/84-04/12/93	11	207.	922.545	4500.	18.	2282164.673	1510.684	26.4	86.	660.	4260.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/21/84-04/12/93	11	2.316	2.463	3.653	1.255	0.511	0.715	1.36	1.934	2.82	3.626
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			290.134								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	02/21/84-04/12/93	11	154.	529.818	3400.	44.	973948.164	986.888	46.4	58.	375.	2908.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	02/21/84-04/12/93	11	2.188	2.301	3.531	1.643	0.34	0.584	1.664	1.763	2.574	3.42
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			199.892								

** - 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 NIOB0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/21/84-04/12/93	12	16.	14.083	23.	6.	46.629	6.829	6.3	7.	20.	23.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/21/84-04/12/93	12	201.	207.5	300.	180.	929.909	30.494	182.7	193.5	209.5	273.3
00300	OXYGEN, DISSOLVED MG/L	02/21/84-04/12/93	11	9.7	9.973	13.1	8.3	2.604	1.614	8.34	8.5	11.3	12.8
00340	COD, .25N K2CR2O7 MG/L	08/21/84-04/12/93	9	7.	10.444	30.	2.5	103.403	10.169	2.5	2.5	19.	30.
00403	PH, LAB, STANDARD UNITS SU	02/21/84-04/12/93	10	8.	8.02	8.4	7.8	0.037	0.193	7.8	7.875	8.2	8.38
00403	CONVERTED PH, LAB, STANDARD UNITS	02/21/84-04/12/93	10	8.	7.985	8.4	7.8	0.039	0.197	7.8	7.875	8.2	8.38
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/21/84-04/12/93	10	0.01	0.01	0.016	0.004	0.	0.004	0.004	0.006	0.013	0.016
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/21/84-04/12/93	12	46.	61.25	141.	14.	2230.568	47.229	14.6	21.25	110.5	140.1
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/21/84-04/12/93	12	0.03	0.047	0.11	0.01	0.001	0.038	0.01	0.013	0.08	0.11
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/21/84-04/12/93	12	1.405	1.408	1.99	0.47	0.18	0.424	0.635	1.188	1.715	1.96
00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/21/84-04/12/93	12	0.235	0.249	0.45	0.14	0.006	0.08	0.155	0.195	0.293	0.411
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/21/84-11/16/92	12	2.15	2.458	5.1	1.3	1.152	1.073	1.3	1.625	2.975	4.59
00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/21/84-04/12/93	12	21.95	20.992	33.5	7.4	37.45	6.12	9.59	19.05	22.975	30.74
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/21/84-04/12/93	12	3.3	3.375	4.5	2.9	0.208	0.456	2.9	3.025	3.675	4.26
00930	SODIUM, DISSOLVED (MG/L AS NA)	02/21/84-04/12/93	12	6.8	6.817	8.4	5.	1.4	1.183	5.09	5.825	7.975	8.34
00940	CHLORIDE,TOTAL IN WATER MG/L	02/21/84-04/12/93	12	3.	3.625	6.	2.	1.733	1.316	2.15	2.5	5.	5.7
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/21/84-04/12/93	12	52.	190.583	1300.	7.	136464.447	369.411	7.	16.25	140.	1042.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/21/84-04/12/93	12	1.7	1.754	3.114	0.845	0.478	0.691	0.845	1.207	2.146	2.973
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			56.703								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	02/21/84-04/12/93	11	45.	433.364	3300.	20.	951053.455	975.22	21.	30.	560.	2760.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	02/21/84-04/12/93	11	1.653	1.959	3.519	1.301	0.515	0.717	1.32	1.477	2.748	3.37
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			90.904								

** - 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 NIOB0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/21/84-04/12/93	12	12.5	12.667	26.	4.	67.515	8.217	4.	5.25	20.75	25.7
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/21/84-04/12/93	12	203.5	198.833	215.	175.	131.788	11.48	177.4	190.5	206.	212.6
00300	OXYGEN, DISSOLVED MG/L	02/21/84-04/12/93	11	9.5	9.945	12.2	7.6	2.523	1.588	7.8	8.6	11.6	12.16
00340	COD, .25N K2CR2O7 MG/L	08/21/84-04/12/93	12	11.	17.625	87.	2.5	537.778	23.19	2.95	5.25	16.5	70.5
00403	PH, LAB, STANDARD UNITS SU	02/21/84-04/12/93	12	7.95	7.992	8.4	7.8	0.028	0.168	7.8	7.9	8.1	8.31
00403	CONVERTED PH, LAB, STANDARD UNITS	02/21/84-04/12/93	12	7.947	7.966	8.4	7.8	0.029	0.17	7.8	7.9	8.1	8.31
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/21/84-04/12/93	12	0.011	0.011	0.016	0.004	0.	0.004	0.005	0.008	0.013	0.016
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/21/84-04/12/93	12	48.	135.75	1023.	22.	79481.841	281.925	22.6	27.	92.75	761.4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/21/84-04/12/93	12	0.06	0.109	0.65	0.01	0.031	0.176	0.01	0.023	0.113	0.501
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/21/84-04/12/93	12	1.705	1.619	2.05	0.4	0.21	0.458	0.679	1.413	1.988	2.035
00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/21/84-04/12/93	12	0.245	0.476	2.32	0.15	0.387	0.622	0.153	0.188	0.365	1.918
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/21/84-11/16/92	12	2.6	4.275	17.2	1.6	20.035	4.476	1.6	2.075	3.65	14.62
00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/21/84-04/12/93	12	24.2	24.933	31.2	22.5	4.924	2.219	22.71	23.85	25.425	29.7
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/21/84-04/12/93	12	3.45	3.542	4.6	3.	0.184	0.429	3.06	3.225	3.75	4.42
00930	SODIUM, DISSOLVED (MG/L AS NA)	02/21/84-04/12/93	12	8.1	8.45	12.2	7.2	1.85	1.36	7.23	7.525	9.025	11.3
00940	CHLORIDE,TOTAL IN WATER MG/L	02/21/84-04/12/93	12	3.	4.167	11.	2.	6.879	2.623	2.	3.	5.5	9.8
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/21/84-04/12/93	12	83.	1095.333	6000.	7.	5264108.788	2294.365	7.9	18.5	393.25	6000.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/21/84-04/12/93	12	1.917	2.077	3.778	0.845	0.933	0.966	0.892	1.221	2.583	3.778
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			119.361								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	02/21/84-04/12/93	12	123.5	9563.5	100000.	25.	819146922.636	28620.743	26.2	35.75	2000.	73000.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	02/21/84-04/12/93	12	2.084	2.509	5.	1.398	1.329	1.153	1.417	1.543	3.301	4.7
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			322.561								

** - 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 1989 - Station NIOB0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/21/84-04/12/93	9	17.	13.889	23.	4.	42.611	6.528	4.	8.	19.	23.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/21/84-04/12/93	9	195.	195.778	208.	188.	49.944	7.067	188.	189.5	202.	208.
00300	OXYGEN, DISSOLVED MG/L	02/21/84-04/12/93	9	9.2	10.1	12.5	8.5	2.285	1.512	8.5	8.85	11.55	12.5
00340	COD, .25N K2CR2O7 MG/L	08/21/84-04/12/93	9 ##	4.	9.111	26.	4.	58.111	7.623	4.	4.	13.	26.
00403	PH, LAB, STANDARD UNITS SU	02/21/84-04/12/93	9	8.1	8.167	8.7	7.7	0.15	0.387	7.7	7.8	8.6	8.7
00403	CONVERTED PH, LAB, STANDARD UNITS	02/21/84-04/12/93	9	8.1	8.031	8.7	7.7	0.171	0.413	7.7	7.8	8.6	8.7
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/21/84-04/12/93	9	0.008	0.009	0.02	0.002	0.	0.007	0.002	0.003	0.016	0.02
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/21/84-04/12/93	9	27.	53.333	246.	5.	5967.75	77.251	5.	7.	65.5	246.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/21/84-04/12/93	9 ##	0.01	0.018	0.06	0.01	0.	0.017	0.01	0.01	0.02	0.06
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/21/84-04/12/93	9	1.6	1.663	2.31	1.11	0.117	0.342	1.11	1.48	1.91	2.31
00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/21/84-04/12/93	9	0.16	0.187	0.36	0.13	0.005	0.07	0.13	0.15	0.205	0.36
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/21/84-11/16/92	9	2.2	2.422	5.4	1.	1.484	1.218	1.	1.85	2.6	5.4
00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/21/84-04/12/93	9	23.9	23.589	25.3	20.7	1.939	1.392	20.7	22.8	24.6	25.3
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/21/84-04/12/93	9	3.2	3.2	3.6	2.9	0.04	0.2	2.9	3.05	3.3	3.6
00930	SODIUM, DISSOLVED (MG/L AS NA)	02/21/84-04/12/93	9	7.3	7.367	8.4	6.4	0.405	0.636	6.4	6.9	7.95	8.4
00940	CHLORIDE,TOTAL IN WATER MG/L	02/21/84-04/12/93	9	2.	2.056	4.	0.5	1.028	1.014	0.5	1.5	2.5	4.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/21/84-04/12/93	9	19.	74.667	340.	7.	12463.	111.638	7.	7.	126.	340.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/21/84-04/12/93	9	1.279	1.433	2.531	0.845	0.438	0.662	0.845	0.845	2.094	2.531
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			27.106								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	02/21/84-04/12/93	9	30.	64.333	220.	7.	4766.25	69.038	7.	16.	100.	220.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	02/21/84-04/12/93	9	1.477	1.578	2.342	0.845	0.243	0.493	0.845	1.196	1.998	2.342
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			37.816								

** - 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 NIOB0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/21/84-04/12/93	12	16.	14.75	25.	4.	59.841	7.736	4.6	6.25	22.25	24.7
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/21/84-04/12/93	12	203.5	206.5	229.	197.	86.636	9.308	197.6	200.25	210.75	226.
00300	OXYGEN, DISSOLVED MG/L	02/21/84-04/12/93	12	9.15	9.2	10.8	7.5	1.38	1.175	7.62	8.05	10.525	10.74
00340	COD, .25N K2CR2O7 MG/L	08/21/84-04/12/93	12	10.	13.5	34.	4.	133.364	11.548	4.	4.	24.25	33.7
00403	PH, LAB, STANDARD UNITS SU	02/21/84-04/12/93	12	7.95	7.992	8.3	7.7	0.046	0.215	7.7	7.825	8.2	8.3
00403	CONVERTED PH, LAB, STANDARD UNITS	02/21/84-04/12/93	12	7.947	7.945	8.3	7.7	0.049	0.221	7.7	7.825	8.2	8.3
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/21/84-04/12/93	12	0.011	0.011	0.02	0.005	0.	0.005	0.005	0.006	0.015	0.02
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/21/84-04/12/93	12	59.	68.167	152.	17.	1791.788	42.33	17.	35.25	105.75	143.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/21/84-04/12/93	12	0.02	0.03	0.12	0.01	0.001	0.033	0.01	0.01	0.035	0.105
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/21/84-04/12/93	12	1.79	1.768	2.27	1.18	0.107	0.327	1.201	1.62	2.05	2.204
00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/21/84-04/12/93	12	0.255	0.266	0.49	0.12	0.012	0.111	0.126	0.18	0.36	0.46
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/21/84-11/16/92	12	2.4	3.308	9.6	1.2	6.241	2.498	1.2	2.	4.8	8.55
00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/21/84-04/12/93	12	24.6	24.308	27.3	20.6	2.377	1.542	21.32	24.025	24.85	26.67
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/21/84-04/12/93	12	3.55	3.592	4.4	3.3	0.083	0.287	3.3	3.425	3.675	4.19
00930	SODIUM, DISSOLVED (MG/L AS NA)	02/21/84-04/12/93	12	7.45	7.858	9.7	6.9	0.841	0.917	6.93	7.175	8.375	9.61
00940	CHLORIDE,TOTAL IN WATER MG/L	02/21/84-04/12/93	12	3.	2.833	5.	2.	0.697	0.835	2.	2.	3.	4.4
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/21/84-04/12/93	12	393.	1185.833	5800.	24.	2973846.152	1724.484	24.	47.	1840.	4930.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/21/84-04/12/93	12	2.473	2.492	3.763	1.38	0.738	0.859	1.38	1.606	3.262	3.673
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			310.551								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	02/21/84-04/12/93	12	198.	227.25	600.	29.	28203.295	167.938	46.1	91.25	349.5	543.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	02/21/84-04/12/93	12	2.297	2.231	2.778	1.462	0.138	0.372	1.604	1.96	2.542	2.729
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			170.083								

** - 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 1992 - Station NIOB0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/21/84-04/12/93	11	14.	15.	22.	7.	34.2	5.848	7.	10.	21.	21.8
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/21/84-04/12/93	11	203.	201.364	212.	194.	44.255	6.652	194.	195.	206.	211.2
00300	OXYGEN, DISSOLVED MG/L	02/21/84-04/12/93	10	10.1	9.97	11.5	7.8	1.709	1.307	7.86	8.7	11.2	11.5
00340	COD, .25N K2CR2O7 MG/L	08/21/84-04/12/93	11	10.	10.182	20.	4.	24.764	4.976	4.2	6.	13.	19.2
00403	PH, LAB, STANDARD UNITS SU	02/21/84-04/12/93	11	8.6	8.455	9.	8.	0.149	0.386	8.	8.	8.8	8.98
00403	CONVERTED PH, LAB, STANDARD UNITS	02/21/84-04/12/93	11	8.6	8.31	9.	8.	0.172	0.414	8.	8.	8.8	8.98
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/21/84-04/12/93	11	0.003	0.005	0.01	0.001	0.	0.004	0.001	0.002	0.01	0.01
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/21/84-04/12/93	11	31.	40.455	121.	7.	1119.073	33.453	8.	13.	59.	111.8
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/21/84-04/12/93	11 ##	0.01	0.021	0.09	0.01	0.001	0.024	0.01	0.01	0.02	0.078
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/21/84-04/12/93	11	1.7	1.654	2.12	1.18	0.098	0.313	1.208	1.37	2.	2.098
00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/21/84-04/12/93	11	0.19	0.204	0.28	0.14	0.002	0.042	0.146	0.17	0.24	0.274
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/21/84-11/16/92	11	2.4	2.545	4.4	1.3	0.805	0.897	1.4	1.9	3.4	4.22
00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/21/84-04/12/93	11	24.1	24.209	25.6	22.8	0.805	0.897	22.9	23.5	25.	25.5
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/21/84-04/12/93	11	3.5	3.5	3.6	3.4	0.008	0.089	3.4	3.4	3.6	3.6
00930	SODIUM, DISSOLVED (MG/L AS NA)	02/21/84-04/12/93	11	7.6	7.509	8.6	6.6	0.319	0.565	6.66	6.9	7.8	8.48
00940	CHLORIDE,TOTAL IN WATER MG/L	02/21/84-04/12/93	11	2.	2.455	4.	2.	0.473	0.688	2.	2.	3.	3.8
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/21/84-04/12/93	11	92.	170.727	960.	20.	72438.618	269.144	21.6	34.	192.	807.2
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/21/84-04/12/93	11	1.964	1.948	2.982	1.301	0.231	0.481	1.33	1.531	2.283	2.844
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			88.656								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	02/21/84-04/12/93	11	72.	89.818	220.	26.	3441.964	58.668	29.6	44.	108.	210.4
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	02/21/84-04/12/93	11	1.857	1.877	2.342	1.415	0.072	0.269	1.461	1.643	2.033	2.321
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			75.336								

** - 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 1993 - Station NIOB0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/21/84-04/12/93	4	6.	5.75	10.	1.	14.25	3.775	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/21/84-04/12/93	4	204.5	204.25	209.	199.	20.917	4.573	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	02/21/84-04/12/93	4	10.7	11.125	12.9	10.2	1.516	1.231	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	08/21/84-04/12/93	4	9.	8.75	15.	2.	38.917	6.238	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	02/21/84-04/12/93	4	8.	8.	8.1	7.9	0.013	0.115	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	02/21/84-04/12/93	4	7.989	7.989	8.1	7.9	0.014	0.116	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/21/84-04/12/93	4	0.01	0.01	0.013	0.008	0.	0.003	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/21/84-04/12/93	4	38.5	38.75	60.	18.	314.25	17.727	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/21/84-04/12/93	4	0.045	0.15	0.5	0.01	0.055	0.235	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/21/84-04/12/93	4	2.015	2.04	2.19	1.94	0.013	0.112	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/21/84-04/12/93	4	0.2	0.218	0.29	0.18	0.002	0.049	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/21/84-04/12/93	4	25.35	25.35	26.4	24.3	0.777	0.881	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/21/84-04/12/93	4	3.6	3.625	3.8	3.5	0.016	0.126	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	02/21/84-04/12/93	4	7.7	8.025	9.3	7.4	0.803	0.896	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	02/21/84-04/12/93	4	2.5	2.5	3.	2.	0.333	0.577	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/21/84-04/12/93	4	13.	18.25	40.	7.	224.25	14.975	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/21/84-04/12/93	4	1.102	1.163	1.602	0.845	0.107	0.328	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			14.549								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	02/21/84-04/12/93	4	50.	128.5	400.	14.	33073.	181.86	**	**	**	**
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	02/21/84-04/12/93	4	1.696	1.785	2.602	1.146	0.366	0.605	**	**	**	**
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			60.948								

** - 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 #1: 8/01 to 1/14 - Station NIOB0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/21/84-04/12/93	37	11.5	12.122	25.	0.	54.117	7.356	3.	6.	18.5	22.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/21/84-04/12/93	37	197.	196.892	230.	166.	129.766	11.391	182.4	189.5	204.	207.
00300	OXYGEN, DISSOLVED MG/L	02/21/84-04/12/93	36	10.35	10.394	14.3	7.2	2.747	1.658	8.47	9.025	11.75	12.59
00340	COD, .25N K2CR2O7 MG/L	08/21/84-04/12/93	27	7.	21.278	190.	2.5	1951.679	44.178	2.5	4.	13.	56.2
00403	PH, LAB, STANDARD UNITS SU	02/21/84-04/12/93	36	8.	8.019	8.9	7.4	0.122	0.35	7.7	7.8	8.175	8.63
00403	CONVERTED PH, LAB, STANDARD UNITS	02/21/84-04/12/93	36	8.	7.91	8.9	7.4	0.134	0.367	7.7	7.8	8.175	8.63
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/21/84-04/12/93	36	0.01	0.012	0.04	0.001	0.	0.008	0.002	0.007	0.016	0.02
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/21/84-04/12/93	37	36.	115.243	1876.	5.	94942.3	308.127	11.8	22.	79.	225.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/21/84-04/12/93	37 ##	0.02	0.029	0.152	0.01	0.001	0.034	0.01	0.01	0.035	0.092
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/21/84-04/12/93	37	1.62	1.583	2.27	0.69	0.167	0.409	1.03	1.255	1.955	2.05
00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/21/84-04/12/93	37	0.2	0.305	2.32	0.01	0.157	0.396	0.14	0.165	0.29	0.41
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/21/84-11/16/92	36	2.15	3.328	18.3	1.2	12.268	3.503	1.27	1.475	3.2	8.46
00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/21/84-04/12/93	37	23.	22.732	33.5	16.1	8.495	2.915	19.1	20.75	24.1	25.2
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/21/84-04/12/93	37	3.4	3.459	5.7	2.1	0.304	0.551	2.98	3.2	3.6	3.84
00930	SODIUM, DISSOLVED (MG/L AS NA)	02/21/84-04/12/93	37	7.4	7.175	9.2	2.5	1.624	1.274	5.74	6.695	7.8	8.44
00940	CHLORIDE,TOTAL IN WATER MG/L	02/21/84-04/12/93	37	2.5	3.054	11.	0.5	3.414	1.848	2.	2.	3.	5.2
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/21/84-04/12/93	37	98.	2898.324	73000.	7.	148940492.059	12204.118	9.4	29.	420.	3840.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/21/84-04/12/93	37	1.991	2.147	4.863	0.845	0.889	0.943	0.969	1.462	2.623	3.57
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			140.139								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	02/21/84-04/12/93	36	125.	4178.639	124000.	19.	426129742.523	20642.91	25.7	54.	303.	4570.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	02/21/84-04/12/93	36	2.09	2.267	5.093	1.279	0.657	0.811	1.41	1.732	2.479	3.631
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			184.942								

** - 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: 1/15 to 3/09 - Station NIOB0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/21/84-04/12/93	15	6.	5.567	9.5	1.	4.852	2.203	1.9	4.	7.	8.3
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/21/84-04/12/93	15	200.	200.2	212.	187.	65.457	8.091	187.6	191.	208.	211.4
00300	OXYGEN, DISSOLVED MG/L	02/21/84-04/12/93	14	11.7	11.75	13.2	10.	1.123	1.06	10.2	10.675	12.95	13.15
00340	COD, .25N K2CR2O7 MG/L	08/21/84-04/12/93	12	11.	9.833	19.	2.	35.242	5.937	2.6	4.	15.	18.7
00403	PH, LAB, STANDARD UNITS SU	02/21/84-04/12/93	15	7.9	7.9	8.1	7.6	0.019	0.136	7.66	7.8	8.	8.1
00403	CONVERTED PH, LAB, STANDARD UNITS	02/21/84-04/12/93	15	7.9	7.879	8.1	7.6	0.019	0.138	7.66	7.8	8.	8.1
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/21/84-04/12/93	15	0.013	0.013	0.025	0.008	0.	0.005	0.008	0.01	0.016	0.022
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/21/84-04/12/93	15	57.	65.2	176.	18.	1543.886	39.292	23.4	37.	88.	130.4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/21/84-04/12/93	15	0.05	0.047	0.12	0.01	0.001	0.032	0.01	0.02	0.07	0.096
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/21/84-04/12/93	15	2.	1.992	2.31	1.67	0.031	0.176	1.7	1.88	2.1	2.238
00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/21/84-04/12/93	15	0.24	0.231	0.35	0.13	0.003	0.057	0.148	0.19	0.27	0.32
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/21/84-11/16/92	13	2.7	2.492	4.1	1.	0.941	0.97	1.2	1.55	3.4	3.86
00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/21/84-04/12/93	15	24.3	22.66	31.2	7.4	30.775	5.548	11.78	22.	25.5	28.62
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/21/84-04/12/93	15	3.5	3.453	4.6	2.8	0.233	0.482	2.86	2.9	3.6	4.24
00930	SODIUM, DISSOLVED (MG/L AS NA)	02/21/84-04/12/93	15	7.4	7.42	9.1	5.3	0.749	0.865	6.08	7.1	8.	8.68
00940	CHLORIDE,TOTAL IN WATER MG/L	02/21/84-04/12/93	15	3.	3.233	6.	2.	1.781	1.335	2.	2.5	3.	6.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/21/84-04/12/93	15	24.	86.733	660.	7.	27497.067	165.822	7.	15.	76.	378.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/21/84-04/12/93	15	1.38	1.533	2.82	0.845	0.321	0.567	0.845	1.176	1.881	2.495
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			34.149								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	02/21/84-04/12/93	15	144.	356.667	2000.	7.	290949.095	539.397	11.2	50.	400.	1460.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	02/21/84-04/12/93	15	2.158	2.124	3.301	0.845	0.464	0.681	1.026	1.699	2.602	3.145
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			133.								

** - 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: 3/10 to 7/31 - Station NIOB0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/21/84-04/12/93	43	17.	16.5	26.	5.	37.321	6.109	7.6	11.	22.5	23.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/21/84-04/12/93	43	201.	200.465	300.	165.	439.588	20.966	177.	189.	208.	216.2
00300	OXYGEN, DISSOLVED MG/L	02/21/84-04/12/93	42	9.2	9.288	12.5	6.2	1.882	1.372	7.66	8.45	10.35	11.1
00340	COD, .25N K2CR2O7 MG/L	08/21/84-04/12/93	33	12.	17.152	87.	2.5	252.429	15.888	4.	7.	24.	33.6
00403	PH, LAB, STANDARD UNITS SU	02/21/84-04/12/93	39	8.1	8.146	9.	7.7	0.105	0.324	7.8	7.9	8.3	8.6
00403	CONVERTED PH, LAB, STANDARD UNITS	02/21/84-04/12/93	39	8.1	8.05	9.	7.7	0.115	0.339	7.8	7.9	8.3	8.6
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/21/84-04/12/93	39	0.008	0.009	0.02	0.001	0.	0.005	0.003	0.005	0.013	0.016
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/21/84-04/12/93	43	51.	93.419	1023.	2.	24806.773	157.502	18.2	36.	104.	147.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/21/84-04/12/93	43	0.03	0.06	0.65	0.01	0.015	0.12	0.01	0.01	0.07	0.11
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/21/84-04/12/93	43	1.5	1.422	1.97	0.4	0.133	0.364	0.994	1.18	1.7	1.826
00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/21/84-04/12/93	43	0.23	0.269	0.98	0.05	0.026	0.162	0.144	0.18	0.29	0.43
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/21/84-11/16/92	41	2.5	4.022	17.2	1.6	12.706	3.565	1.9	2.	5.	8.34
00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/21/84-04/12/93	43	23.8	23.493	27.3	18.1	4.364	2.089	20.06	22.8	24.8	25.84
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/21/84-04/12/93	43	3.6	3.665	7.8	2.8	0.631	0.795	3.14	3.3	3.7	4.06
00930	SODIUM, DISSOLVED (MG/L AS NA)	02/21/84-04/12/93	43	7.4	7.57	12.2	2.5	2.209	1.486	5.96	7.	8.3	9.36
00940	CHLORIDE,TOTAL IN WATER MG/L	02/21/84-04/12/93	43	2.5	3.105	7.	1.	1.673	1.294	2.	2.	4.	5.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/21/84-04/12/93	42	168.5	1008.476	11920.	7.	5035636.353	2244.022	26.4	59.	790.	4020.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/21/84-04/12/93	42	2.224	2.321	4.076	0.845	0.618	0.786	1.418	1.771	2.897	3.596
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			209.317								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	02/21/84-04/12/93	42	104.	2805.738	100000.	13.	237000019.125	15394.805	27.6	43.	377.	1682.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	02/21/84-04/12/93	42	2.017	2.161	5.	1.114	0.592	0.77	1.441	1.633	2.576	3.203
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			144.782								

** - 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: NIOB0011

NPS Station ID: NIOB0011
LAT/LON: 42.687505/ -99.682504
Agency: 1117MBR
Date Created: 12/15/77
Location: LONG PINE CREEK
FIPS State/County: 31017 NEBRASKA/BROWN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 003580
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 0
Water Body Id:
Minor Basin: NIOBRARA
ECO Region:
RF1 Index: 10150004027
RF1 Mile Point: 4.740
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10150004002800.00
RF3 Mile Point: 8.28
Distance from RF3: 0.03
On/Off RF3:
Description:
COUNTY: BROWN, CITY: AINSWORTH, LAMS STATION CODE: 63000000 SAMPLING POINT LOCATED IN SEC 5 T31N R20W AT BRIDGE

Parameter Inventory for Station: NIOB0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/77-10/11/77	2	6.5	6.5	7.	6.	0.5	0.707	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/77-10/11/77	4 ##	0.02	0.03	0.06	0.02	0.	0.02	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/07/77-10/11/77	4	0.65	0.65	0.7	0.6	0.003	0.058	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/07/77-10/11/77	4	1.2	1.2	1.3	1.1	0.007	0.082	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/77-10/11/77	4 ##	0.3	0.3	0.5	0.1	0.053	0.231	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/07/77-10/11/77	4	0.18	0.18	0.19	0.17	0.	0.008	**	**	**	**

** - 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: NIOB0011

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	4	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: NIOB0012

NPS Station ID: NIOB0012
LAT/LON: 42.667309/ -99.684366
Agency: 21NEB001
Date Created: 06/06/81
Location: LONG PINE CREEK
FIPS State/County: 31017 NEBRASKA/BROWN
Station Type: /TYPA/AMBNT/STREAM/BIO
STORET Station ID(s): LP0007
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id: NENI3-12300
Minor Basin:
ECO Region: 44G
RF1 Index: 10150004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10150004003106.41
RF3 Mile Point: 6.65
Distance from RF3: 0.42
On/Off RF3:
Description:

Parameter Inventory for Station: NIOB0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/79-07/12/83	32	14.	13.297	22.	3.5	28.578	5.346	6.	8.	18.	20.
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/24/79-07/12/83	41	97.	97.268	116.	78.	95.951	9.795	83.	91.5	103.5	113.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/24/79-07/12/83	43	167.	164.256	200.	130.	283.909	16.85	140.	146.	177.	185.2
00300	OXYGEN, DISSOLVED MG/L	07/24/79-07/12/83	32	9.95	10.038	11.9	7.2	1.246	1.116	8.83	9.15	10.8	11.7
00310	BOD, 5 DAY, 20 DEG C MG/L	07/24/79-07/12/83	42	1.7	1.723	7.	0.05	1.596	1.263	0.395	0.7	2.5	3.
00335	COD, .025N K2CR2O7 MG/L	07/24/79-07/12/83	31	9.	10.081	32.	1.	66.718	8.168	1.5	2.5	18.	20.8
00340	COD, .25N K2CR2O7 MG/L	02/08/83-02/08/83	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/24/79-07/12/83	31	7.7	7.758	8.3	6.8	0.117	0.341	7.4	7.6	8.	8.3
00400	CONVERTED PH (STANDARD UNITS)	07/24/79-07/12/83	31	7.7	7.611	8.3	6.8	0.139	0.373	7.4	7.6	8.	8.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/24/79-07/12/83	31	0.02	0.024	0.158	0.005	0.001	0.028	0.005	0.01	0.025	0.04
00403	PH, LAB, STANDARD UNITS SU	04/23/80-04/23/80	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/23/80-04/23/80	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/23/80-04/23/80	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/24/79-07/12/83	32	138.5	139.688	210.	16.	1210.931	34.798	96.	128.75	157.5	182.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/24/79-07/12/83	31	24.	39.597	338.	0.5	3546.474	59.552	4.4	10.	51.	63.8
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/24/79-07/12/83	32 ##	0.015	0.043	0.2	0.01	0.002	0.049	0.012	0.015	0.048	0.1
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/24/79-07/12/83	32	0.9	0.913	1.3	0.4	0.055	0.234	0.518	0.803	1.028	1.273
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/23/80-07/12/83	38	0.065	0.088	0.26	0.005	0.006	0.075	0.01	0.02	0.143	0.204
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	11/03/81-07/12/83	13	3.	2.592	3.6	1.1	0.864	0.93	1.26	1.55	3.5	3.56
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/24/79-07/12/83	32	19.	21.094	38.	17.	42.539	6.522	17.	18.	19.75	37.7
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/24/79-07/12/83	32	2.	2.516	8.	0.5	1.992	1.411	1.	2.	3.	3.7
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/24/79-07/12/83	32	5.	4.641	6.	0.5	1.649	1.284	2.3	4.25	5.	6.
00940	CHLORIDE,TOTAL IN WATER MG/L	07/24/79-07/12/83	32	2.25	2.553	8.	0.5	4.11	2.027	0.5	0.55	4.	5.7
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/24/79-07/12/83	32	70.5	789.25	12500.	7.	7009435.29	2647.534	10.	45.	145.25	895.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/24/79-07/12/83	32	1.848	1.953	4.097	0.845	0.534	0.731	1.	1.653	2.162	2.905
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			89.664								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	07/24/79-07/12/83	32	156.5	925.5	13100.	10.	6545941.161	2558.504	33.	100.	316.5	3468.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	07/24/79-07/12/83	32	2.194	2.301	4.117	1.	0.423	0.651	1.515	2.	2.5	3.465
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			199.813								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/24/79-04/23/80	6	0.15	0.167	0.3	0.1	0.006	0.078	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	09/22/81-07/12/83	11	35.	48.455	119.	7.	1451.673	38.101	8.	18.	70.	116.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	09/22/81-07/12/83	11	8.99	13.055	32.07	1.71	116.719	10.804	1.888	4.49	19.68	31.76
80250	SEDIMENT PARTICLE SIZE FRACT.<.0625MM % DRY WEIGHT	07/24/79-07/12/83	31	0.32	0.557	5.6	0.003	0.938	0.969	0.174	0.21	0.5	0.98
80253	SEDIMENT PRCTL.SIZE CLASS0.25-.50MMMED SAND %DRYWT	07/24/79-07/12/83	31	27.	28.545	47.3	9.	65.724	8.107	20.44	22.9	32.	42.6
80256	SEDIMENT PRTCL.SIZE CLASS>2.0MM GRAVEL % DRY WT.	07/24/79-07/12/83	31	72.5	70.903	91.	52.2	64.255	8.016	57.02	67.1	76.4	77.98

** - 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: NIOB0012

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	32	0	0.00	13	0	0.00	2	0	0.00	17	0	0.00			
00400	PH	Other-Hi Lim.	9.	31	0	0.00	13	0	0.00	2	0	0.00	16	0	0.00			
		Other-Lo Lim.	6.5	31	0	0.00	13	0	0.00	2	0	0.00	16	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			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	32	0	0.00	13	0	0.00	2	0	0.00	17	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	32	0	0.00	13	0	0.00	2	0	0.00	17	0	0.00			
		Drinking Water	250.	32	0	0.00	13	0	0.00	2	0	0.00	17	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	32	7	0.22	13	4	0.31	2	0	0.00	17	3	0.18			

& - 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: NIOB0013

NPS Station ID: NIOB0013
LAT/LON: 42.667309/ -99.684366
Agency: 21NEB001
Date Created: 10/08/83
Location: LONG PINE CREEK
FIPS State/County: 31017 NEBRASKA/BROWN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): LPR007
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 0
Water Body Id:
Minor Basin: NIOBRARA
ECO Region:
RF1 Index: 10150004031
RF1 Mile Point: 1.400
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10150004298200.00
RF3 Mile Point: 0.19
Distance from RF3: 0.62
On/Off RF3:
Description:
T31N R20W SEC8 SW1/4 1/2 MILE ABOVE PINE GLEN ST. AREA USGS GAGING STA RAINFALL COLLECTION SITES:
LOCATION 1 LPR001
LOCATION 2 LPR008
LOCATION 3 AINSWORTH AIRPORT

Parameter Inventory for Station: NIOB0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/13/82-06/27/83	45	126.	134.253	285.	0.4	1784.57	42.244	105.2	112.	142.	188.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/13/82-06/27/83	29	153.	154.655	184.	124.	274.52	16.569	124.	144.5	164.5	184.
00121	PRECIPITATION,CUMULATIVE AT GIVEN TIME,LOC.3(IN)	05/13/82-06/13/83	39	3.15	2.075	3.15	0.29	1.546	1.243	0.58	0.58	3.15	3.15
00122	PRECIPITATION,CUMULATIVE AT GIVEN TIME,LOC.2(IN)	05/13/82-06/13/83	39	2.2	1.835	2.75	0.58	0.842	0.918	0.68	0.88	2.7	2.7
00123	PRECIPITATION,CUMULATIVE AT GIVEN TIME,LOC.1(IN)	05/13/82-06/13/83	39	1.4	1.286	1.45	0.63	0.046	0.214	1.1	1.25	1.4	1.45
00127	PRECIPITATION,INTENSITY AT GIVEN TIME,LOC.3 IN/HR	05/13/82-06/12/83	16	0.	0.116	0.6	0.	0.049	0.221	0.	0.	0.125	0.6
00128	PRECIPITATION,INTENSITY AT GIVEN TIME,LOC.2 IN/HR	05/13/82-06/13/83	20	0.	0.093	0.7	0.	0.036	0.19	0.	0.	0.094	0.48
00129	PRECIPITATION,INTENSITY AT GIVEN TIME,LOC.1 IN/HR	05/13/82-06/13/83	18	0.	0.042	0.325	0.	0.007	0.085	0.	0.	0.05	0.19
00310	BOD, 5 DAY, 20 DEG C MG/L	05/13/82-06/27/83	14	5.4	8.793	19.	2.2	40.384	6.355	2.35	3.675	14.875	18.4
00403	PH, LAB, STANDARD UNITS SU	05/13/82-06/27/83	29	6.8	6.645	7.3	5.8	0.133	0.364	6.	6.4	6.9	7.
00403	CONVERTED PH, LAB, STANDARD UNITS	05/13/82-06/27/83	29	6.8	6.478	7.3	5.8	0.161	0.402	6.	6.4	6.9	7.
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/13/82-06/27/83	29	0.158	0.333	1.585	0.05	0.125	0.353	0.1	0.126	0.398	1.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/13/82-06/27/83	28	179.	258.25	1580.	49.	81629.602	285.709	73.6	125.5	344.	404.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/13/82-06/27/83	29	0.06	0.081	0.24	0.02	0.003	0.056	0.02	0.04	0.12	0.14
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/13/82-06/27/83	29	0.89	0.867	1.02	0.56	0.011	0.106	0.62	0.855	0.915	0.98
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/13/82-06/27/83	29	0.56	0.577	1.38	0.2	0.057	0.24	0.29	0.415	0.67	0.87
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/13/82-06/27/83	29	8.9	8.386	15.7	3.8	8.182	2.86	4.4	6.2	10.2	11.8
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/13/82-05/14/82	11	21.5	21.236	22.8	19.6	0.775	0.88	19.7	20.8	21.6	22.64
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/13/82-05/14/82	11	3.2	3.145	3.4	2.8	0.043	0.207	2.82	2.9	3.3	3.38
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/13/82-05/14/82	11	9.6	9.509	11.8	7.	2.913	1.707	7.04	8.	11.3	11.72
00940	CHLORIDE,TOTAL IN WATER MG/L	05/13/82-06/27/83	29 ##	2.5	2.569	6.	2.	0.531	0.729	2.	2.25	2.5	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 time series plot

EPA Water Quality Criteria Analysis for Station: NIOB0013

Parameter				Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Other-Hi Lim.	9.	29	0	0.00							29	0	0.00			
		Other-Lo Lim.	6.5	29	11	0.38							29	11	0.38			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	29	0	0.00							29	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	29	0	0.00							29	0	0.00			
		Drinking Water	250.	29	0	0.00							29	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: NIOB0014

NPS Station ID: NIOB0014
LAT/LON: 42.683921/ -99.684588
Agency: 21NEB001
Date Created: 10/08/83
Location: LONG PINE CREEK
FIPS State/County: 31017 NEBRASKA/BROWN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): LPR008
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 0
Water Body Id:
Minor Basin: NIOBRARA
ECO Region:
RF1 Index: 10150004027
RF1 Mile Point: 5.090
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10150004003100.00
RF3 Mile Point: 1.66
Distance from RF3: 0.47
On/Off RF3:
Description:
T31N R20W SEC5 NE1/4 USGS GAGING STATION BELOW CONFLUENCE BONE CREEK RAINFALL COLLECTION SITES:
LOCATION 1 LPR001
LOCATION 2 LPR008
LOCATION 3 AINSWORTH AIRPORT

Parameter Inventory for Station: NIOB0014

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/13/82-06/29/83	80	373.	446.95	1134.	155.	73633.618	271.355	206.3	247.	445.	1008.7
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/13/82-06/27/83	45	223.	224.222	324.	2.	2719.04	52.144	180.	192.	261.	291.4
00121	PRECIPITATION,CUMULATIVE AT GIVEN TIME,LOC.3(IN)	05/13/82-06/13/83	48	1.525	1.924	3.15	0.58	1.345	1.16	0.58	0.58	3.15	3.15
00122	PRECIPITATION,CUMULATIVE AT GIVEN TIME,LOC.2(IN)	05/13/82-06/13/83	48	1.1	1.699	2.75	0.58	0.759	0.871	0.87	0.88	2.7	2.7
00123	PRECIPITATION,CUMULATIVE AT GIVEN TIME,LOC.1(IN)	05/13/82-06/13/83	44	1.35	1.273	1.45	0.6	0.05	0.223	0.9	1.25	1.4	1.45
00127	PRECIPITATION,INTENSITY AT GIVEN TIME,LOC.3 IN/HR	05/13/82-06/12/83	19	0.	0.097	0.6	0.	0.043	0.206	0.	0.	0.05	0.6
00128	PRECIPITATION,INTENSITY AT GIVEN TIME,LOC.2 IN/HR	05/13/82-06/13/83	21	0.	0.088	0.7	0.	0.035	0.187	0.	0.	0.087	0.46
00129	PRECIPITATION,INTENSITY AT GIVEN TIME,LOC.1 IN/HR	05/13/82-06/13/83	23	0.	0.087	0.6	0.	0.022	0.15	0.	0.	0.15	0.315
00310	BOD, 5 DAY, 20 DEG C MG/L	05/13/82-06/27/83	21	9.7	16.238	72.	3.4	243.259	15.597	3.94	7.35	18.5	34.84
00403	PH, LAB, STANDARD UNITS SU	05/13/82-06/27/83	45	6.9	6.904	7.4	6.4	0.036	0.191	6.7	6.8	7.	7.2
00403	CONVERTED PH, LAB, STANDARD UNITS	05/13/82-06/27/83	45	6.9	6.865	7.4	6.4	0.038	0.195	6.7	6.8	7.	7.2
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/13/82-06/27/83	45	0.126	0.136	0.398	0.04	0.004	0.062	0.063	0.1	0.158	0.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/13/82-06/27/83	45	920.	1090.356	2960.	260.	429981.598	655.73	366.8	620.	1368.	2199.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/13/82-06/27/83	45	0.28	0.345	1.1	0.05	0.063	0.251	0.09	0.15	0.47	0.72
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/13/82-06/27/83	45	0.96	0.996	1.57	0.48	0.044	0.21	0.752	0.81	1.155	1.264
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/13/82-06/27/83	45	1.64	2.437	12.5	0.4	5.11	2.261	0.61	1.165	2.71	5.302
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/13/82-06/27/83	44	12.7	14.711	49.3	4.3	95.461	9.77	5.2	7.725	17.15	28.05
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/13/82-05/14/82	12	30.9	31.175	39.	27.1	8.427	2.903	27.67	29.45	32.125	37.05
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/13/82-05/14/82	12	4.5	4.467	5.3	4.	0.146	0.382	4.	4.1	4.675	5.15
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/13/82-05/14/82	12	13.45	12.592	15.4	9.	7.326	2.707	9.03	9.975	15.1	15.37
00940	CHLORIDE,TOTAL IN WATER MG/L	05/13/82-06/27/83	44	6.5	7.614	20.	2.5	30.789	5.549	2.5	2.5	12.75	16.5

** - 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: NIOB0014

Parameter				Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Other-Hi Lim.	9.	45	0	0.00							45	0	0.00			
		Other-Lo Lim.	6.5	45	1	0.02							45	1	0.02			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	45	0	0.00							45	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	44	0	0.00							44	0	0.00			
		Drinking Water	250.	44	0	0.00							44	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: NIOB0015

NPS Station ID: NIOB0015
LAT/LON: 42.683921/ -99.684588
Agency: 21NEB001
Date Created: 06/06/81
Location: LONG PINE CREEK
FIPS State/County: 31017 NEBRASKA/BROWN
Station Type: /TYPA/AMBNT/STREAM/BIO
STORET Station ID(s): LP0008
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id: NENI3-12200
Minor Basin:
ECO Region: 44G
RF1 Index: 10150004
RF1 Mile Point: 0.000
Distance from RF1: 5.70
On/Off RF1:
RF3 Index: 10150004003100.00
RF3 Mile Point: 1.66
Distance from RF3: 0.47
On/Off RF3:
Description:

Parameter Inventory for Station: NIOB0015

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/79-07/12/83	35	15.	14.529	27.	2.	48.94	6.996	4.6	8.	21.	23.
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/24/79-07/12/83	44	168.5	174.341	293.	120.	987.718	31.428	143.5	152.	191.5	209.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/24/79-07/12/83	47	210.	206.894	277.	165.	581.923	24.123	175.	180.	220.	239.2
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/06/82-04/06/82	1	11.1	11.1	11.1	11.1	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/24/79-07/12/83	34	9.7	9.668	12.7	7.2	2.225	1.492	7.8	8.375	10.8	11.85
00310	BOD, 5 DAY, 20 DEG C MG/L	07/24/79-07/12/83	46	1.95	2.464	9.	0.05	3.441	1.855	0.9	1.275	2.875	5.
00335	COD, .025N K2CR2O7 MG/L	07/24/79-07/12/83	34	12.	14.794	38.	1.5	108.593	10.421	2.	6.	21.75	33.
00400	PH (STANDARD UNITS)	07/24/79-07/12/83	34	7.85	7.835	8.5	6.8	0.129	0.359	7.45	7.575	8.1	8.25
00400	CONVERTED PH (STANDARD UNITS)	07/24/79-07/12/83	34	7.847	7.666	8.5	6.8	0.158	0.398	7.45	7.575	8.1	8.25
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/24/79-07/12/83	34	0.014	0.022	0.158	0.003	0.001	0.027	0.006	0.008	0.027	0.036
00403	PH, LAB, STANDARD UNITS SU	04/23/80-04/23/80	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/23/80-04/23/80	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/23/80-04/23/80	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/24/79-07/12/83	34	157.5	162.794	260.	4.	2253.381	47.47	136.	146.75	180.	228.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/24/79-07/12/83	33	83.	120.939	678.	12.	20602.684	143.536	16.	33.	140.5	317.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/24/79-07/12/83	34	0.03	0.047	0.2	0.01	0.002	0.05	0.015	0.015	0.065	0.11
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/07/81-07/27/81	2	0.07	0.07	0.11	0.03	0.003	0.057	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/24/79-07/12/83	33	1.1	1.289	8.	0.4	1.557	1.248	0.72	0.855	1.3	1.612
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/23/80-07/12/83	42	0.135	0.294	2.03	0.005	0.205	0.453	0.01	0.05	0.308	0.816
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	11/03/81-07/12/83	15	4.	4.86	10.6	1.4	9.743	3.121	1.52	2.1	7.5	10.12
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/24/79-07/12/83	34	23.	25.347	49.	9.	70.132	8.374	20.5	21.75	25.25	45.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/24/79-07/12/83	34	3.	3.218	8.	1.	1.32	1.149	2.	3.	3.1	4.5
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/24/79-07/12/83	34	6.5	6.121	11.	0.5	3.855	1.963	4.	5.	7.	7.55
00940	CHLORIDE,TOTAL IN WATER MG/L	07/24/79-07/12/83	34	3.5	3.309	9.	0.5	5.197	2.28	0.5	1.	5.	6.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/24/79-07/12/83	34	183.	1444.206	7800.	15.	5293963.017	2300.861	30.5	74.	1837.5	6000.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/24/79-07/12/83	34	2.262	2.48	3.892	1.176	0.696	0.835	1.484	1.869	3.251	3.778
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			302.268								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	07/24/79-07/12/83	34	220.	806.824	6000.	10.	1708216.271	1306.987	52.5	129.25	917.	2800.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	07/24/79-07/12/83	34	2.342	2.499	3.778	1.	0.383	0.619	1.716	2.111	2.962	3.44
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			315.314								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/24/79-04/23/80	6	0.285	0.37	0.6	0.2	0.033	0.181	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	09/22/81-07/12/83	12	94.	199.917	828.	10.	77673.356	278.699	19.3	45.5	175.	802.8
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	09/22/81-07/12/83	12	45.64	108.048	514.19	4.1	26835.687	163.816	7.667	16.293	96.095	474.554
80250	SEDIMENT PARTICLE SIZE FRACT.<.0625MM % DRY WEIGHT	07/24/79-07/12/83	33	0.18	0.504	4.9	0.002	1.236	1.112	0.03	0.06	0.31	1.38
80253	SEDIMENT PRCTL.SIZE CLASS0.25-.50MMMED SAND %DRYWT	07/24/79-07/12/83	33	71.8	67.694	90.	32.5	272.126	16.496	46.18	55.45	81.6	86.66
80256	SEDIMENT PRTCL.SIZE CLASS>2.0MM GRAVEL % DRY WT.	07/24/79-07/12/83	33	28.1	31.791	67.3	9.5	264.926	16.277	12.72	18.3	44.35	53.34

** - 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: NIOB0015

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Fresh Acute	4.	1	0	0.00							1	0	0.00			
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	34	0	0.00	13	0	0.00	3	0	0.00	18	0	0.00			
00400	PH	Other-Hi Lim.	9.	34	0	0.00	13	0	0.00	3	0	0.00	18	0	0.00			
		Other-Lo Lim.	6.5	34	0	0.00	13	0	0.00	3	0	0.00	18	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			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	33	0	0.00	13	0	0.00	2	0	0.00	18	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	34	0	0.00	13	0	0.00	3	0	0.00	18	0	0.00			
		Drinking Water	250.	34	0	0.00	13	0	0.00	3	0	0.00	18	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	34	16	0.47	13	6	0.46	3	0	0.00	18	10	0.56			

& - 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: NIOB0016

NPS Station ID: NIOB0016
LAT/LON: 42.688892/ -99.688893
Agency: 112WRD
Date Created: / /
Location: LONG PINE CREEK NEAR RIVERVIEW, NEBR.
FIPS State/County: 31017 NEBRASKA/BROWN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 06463500
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10150004027
RF1 Mile Point: 4.950
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10150004002800.00
RF3 Mile Point: 8.23
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	263	12.5	12.591	29.	0.	53.507	7.315	3.	6.	18.5	22.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/69-09/09/93	223	17.	13.473	37.	-19.	150.249	12.258	3.7	-2.	24.5	30.5
00025	BAROMETRIC PRESSURE (MM OF HG)	10/23/85-10/10/91	2	348.	348.	696.	0.	242208.	492.146	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	06/29/48-10/11/73	38	122.5	147.921	762.	89.	11628.453	107.835	98.9	112.	146.25	179.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	301	162.	203.608	3450.	70.	58014.059	240.861	110.	139.	178.	284.6
00065	STAGE, STREAM (FEET)	05/05/83-12/11/84	13	4.	3.93	4.72	3.3	0.144	0.38	3.316	3.69	4.085	4.556
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/31/69-10/11/73	23	9.	10.63	40.	3.	63.869	7.992	4.	6.	10.	21.
00080	COLOR (PLATINUM-COBALT UNITS)	05/16/73-09/09/93	186	10.	20.573	350.	0.	1837.253	42.863	2.	5.	18.	41.5
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	236	190.	189.246	282.	151.	333.633	18.266	169.	176.	197.75	208.
00300	OXYGEN, DISSOLVED MG/L	07/31/69-10/23/85	23	10.7	10.413	12.2	8.6	1.787	1.337	8.7	9.	11.7	12.06
00310	BOD, 5 DAY, 20 DEG C MG/L	04/25/73-09/19/73	5	1.	1.36	3.3	0.6	1.233	1.11	**	**	**	**
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	238	7.9	7.892	8.9	6.7	0.181	0.425	7.39	7.6	8.24	8.452
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	238	7.9	7.697	8.9	6.7	0.219	0.468	7.39	7.6	8.24	8.452
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	238	0.013	0.02	0.2	0.001	0.	0.022	0.004	0.006	0.025	0.041
00403	PH, LAB, STANDARD UNITS SU	11/20/80-09/09/93	152	8.1	8.093	8.7	7.1	0.051	0.226	7.8	8.	8.2	8.3
00403	CONVERTED PH, LAB, STANDARD UNITS	11/20/80-09/09/93	152	8.1	8.026	8.7	7.1	0.055	0.235	7.8	8.	8.2	8.3
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/80-09/09/93	152	0.008	0.009	0.079	0.002	0.	0.007	0.005	0.006	0.01	0.016
00405	CARBON DIOXIDE (MG/L AS CO2)	05/16/73-09/26/79	26	6.15	7.996	28.	1.2	33.587	5.795	2.16	3.975	11.	15.3
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/29/48-09/04/80	60	79.	79.45	120.	62.	77.981	8.831	71.	75.	82.	89.7
00417	ALKALINITY,FIXED ENDPOINT TITRATION, USGS LAB MG/L	02/05/87-02/05/87	1	82.	82.	82.	82.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	06/29/48-09/26/79	36	97.5	100.	146.	86.	138.8	11.781	89.7	92.75	100.75	113.
00445	CARBONATE ION (MG/L AS CO3)	06/29/48-09/26/79	33	0.	0.03	1.	0.	0.03	0.174	0.	0.	0.	0.
00505	RESIDUE, TOTAL VOLATILE (MG/L)	06/29/48-05/17/52	10	21.	24.2	51.	15.	129.956	11.4	15.1	17.5	26.	49.7
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/25/73-09/19/73	5	0.39	0.35	0.51	0.16	0.019	0.139	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	11/15/90-09/09/93	30	0.02	0.026	0.07	0.005	0.	0.017	0.005	0.009	0.04	0.049
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/25/73-09/19/73	5	0.05	0.068	0.14	0.05	0.002	0.04	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/15/90-09/09/93	30	0.01	0.012	0.03	0.005	0.	0.008	0.005	0.005	0.02	0.02
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	11/15/90-09/09/93	30 ##	0.1	0.257	1.4	0.	0.087	0.294	0.1	0.1	0.3	0.4
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/25/73-09/19/73	5	0.44	0.418	0.65	0.21	0.028	0.168	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/25/73-09/09/93	207	1.5	1.446	3.2	0.025	0.228	0.478	0.9	1.1	1.8	2.1
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/25/73-09/09/93	145	0.21	0.268	2.1	0.03	0.078	0.279	0.15	0.18	0.26	0.382
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/25/73-09/09/93	192	0.17	0.193	1.8	0.01	0.025	0.157	0.12	0.14	0.198	0.257
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/15/90-09/09/93	30	0.15	0.143	0.21	0.005	0.001	0.036	0.11	0.13	0.16	0.179
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/29/48-02/05/86	96	71.	71.698	102.	52.	46.15	6.793	64.	68.	74.	79.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/29/48-09/04/80	60	0.	0.05	2.	0.	0.082	0.287	0.	0.	0.	0.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/29/48-09/09/93	213	24.	23.991	34.	16.	4.009	2.002	22.	23.	25.	26.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/29/48-09/09/93	214	3.5	3.466	5.5	0.5	0.207	0.455	3.1	3.3	3.6	3.9
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/16/73-09/09/93	204	7.6	7.95	15.	5.8	2.026	1.424	6.9	7.3	8.075	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 time series plot

Parameter Inventory for Station: NIOB0016

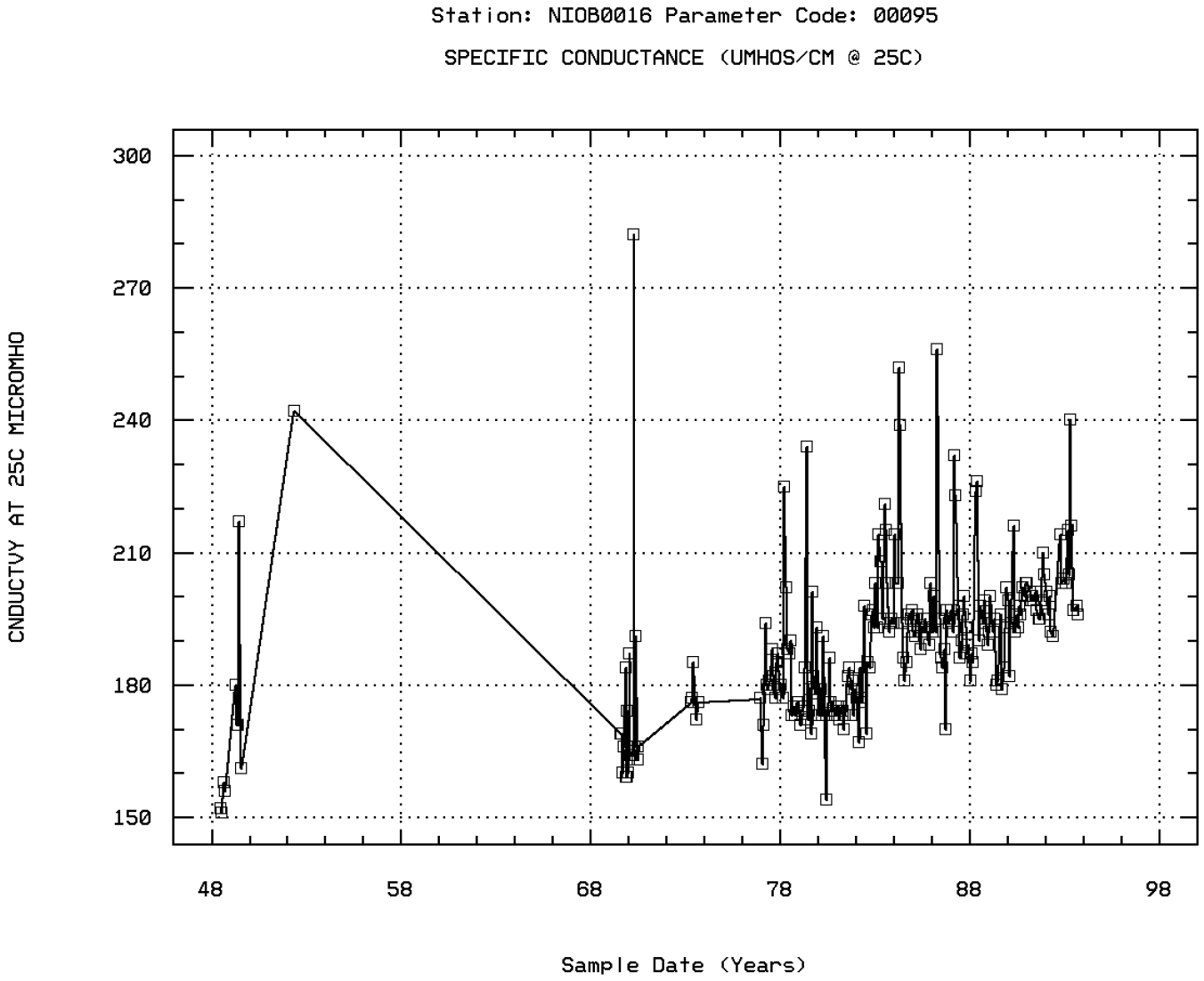
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00931	SODIUM ADSORPTION RATIO	06/29/48-02/05/86	96	0.4	0.419	0.7	0.1	0.007	0.086	0.4	0.4	0.4	0.5
00932	SODIUM, PERCENT	06/29/48-02/05/86	96	17.	18.021	32.	8.	11.642	3.412	16.	16.	18.75	22.
00933	SODIUM,PLUS POTASSIUM (MG/L)	06/29/48-03/19/80	22	13.	11.945	16.	3.	9.021	3.003	7.09	10.75	14.	14.7
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/73-09/09/93	205	5.7	6.001	23.	4.	2.93	1.712	5.1	5.3	6.1	6.9
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/29/48-09/09/93	218	2.	2.746	14.	0.	2.27	1.507	2.	2.	3.	4.
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/29/48-09/09/93	215	6.	5.838	17.	0.4	6.392	2.528	4.	4.	7.	8.4
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	06/29/48-09/09/93	214	0.3	0.272	0.6	0.05	0.005	0.07	0.2	0.2	0.3	0.3
00955p	SILICA, DISSOLVED (MG/L AS SI02)	06/29/48-09/09/93	212	54.	52.113	59.	27.	33.826	5.816	47.3	51.25	55.	56.
01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/08/73-08/08/73	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	06/29/48-09/09/93	203	20.	24.379	130.	0.	218.751	14.79	10.	20.	30.	30.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/08/73-08/08/73	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/08/73-08/08/73	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	08/08/73-08/08/73	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	06/29/48-09/09/93	208	21.	34.587	420.	0.	1970.07	44.385	8.	16.	37.	60.
01049	LEAD, DISSOLVED (UG/L AS PB)	08/08/73-08/08/73	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/16/73-09/09/93	198	3.	3.52	40.	0.5	14.692	3.833	1.	2.	4.	5.
01075	SILVER, DISSOLVED (UG/L AS AG)	08/08/73-08/08/73	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/08/73-08/08/73	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/08/73-08/08/73	1	4.	4.	4.	4.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/18/73-07/18/73	1	44.	44.	44.	44.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/18/73-07/18/73	1	1.643	1.643	1.643	1.643	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			44.								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	07/18/73-07/18/73	1	188.	188.	188.	188.	0.	0.	**	**	**	**
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	07/18/73-07/18/73	1	2.274	2.274	2.274	2.274	0.	0.	**	**	**	**
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			188.								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/29/48-09/26/79	14	149.5	156.	196.	143.	224.462	14.982	144.5	146.	165.	185.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/29/48-02/05/86	90	155.	154.211	183.	120.	96.91	9.844	142.3	149.	159.	165.
70302	SOLIDS, DISSOLVED-TONS PER DAY	06/29/48-03/10/83	88	64.1	69.032	403.	35.3	1587.68	39.846	49.76	57.25	69.8	77.61
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/29/48-03/10/83	88	0.21	0.211	0.27	0.18	0.	0.014	0.2	0.2	0.22	0.23
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	06/12/49-08/07/52	8	15.5	15.5	28.	7.	55.714	7.464	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	04/06/49-08/07/52	28	13.5	17.536	40.	6.	91.221	9.551	8.	9.25	24.	30.9
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	04/06/49-08/07/52	12	28.	27.083	54.	11.	157.538	12.551	12.2	16.	35.75	49.2
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	04/06/48-08/07/52	40	18.	22.15	64.	2.	214.336	14.64	8.1	11.25	32.5	45.8
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	04/06/48-08/07/52	28	22.	26.429	75.	2.	322.847	17.968	10.7	12.	36.	56.4
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	04/06/48-09/15/52	83	29.	32.639	87.	6.	325.526	18.042	16.	20.	41.	60.6
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	04/06/48-09/15/52	83	53.	54.277	96.	8.	374.203	19.344	31.4	40.	67.	82.
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	04/06/48-09/15/52	74	93.	89.095	99.	53.	120.772	10.99	72.	85.	96.25	98.
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	04/06/48-09/15/52	61	100.	98.59	100.	89.	7.513	2.741	94.2	99.	100.	100.
70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	11/21/50-08/07/52	6	100.	99.667	100.	98.	0.667	0.816	**	**	**	**
70347	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 2.00MM	05/17/52-05/17/52	1	100.	100.	100.	100.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	06/29/48-05/17/52	10	1.9	1.84	3.	0.	0.736	0.858	0.13	1.375	2.475	2.97
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/10/79-02/05/86	54	0.71	0.889	6.4	0.12	0.681	0.825	0.52	0.58	0.928	1.4
71890	MERCURY, DISSOLVED (UG/L AS HG)	08/08/73-08/08/73	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/08/73-08/08/73	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/06/48-09/15/52	83	596.	3436.446	31550.	165.	39114615.982	6254.168	247.2	381.	2770.	13220.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/06/48-09/15/52	83	669.	2154.133	15800.	73.	10968203.19	3311.828	115.	195.	2470.	6958.
80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	03/16/51-09/15/52	18	0.	0.056	1.	0.	0.056	0.236	0.	0.	0.	0.1
80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	03/16/51-09/15/52	18	2.	1.944	4.	1.	0.879	0.938	1.	1.	2.	4.
80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	03/16/51-09/15/52	18	32.	31.833	49.	11.	84.853	9.212	14.6	27.5	37.25	45.4
80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	03/16/51-09/15/52	18	75.5	72.167	89.	34.	188.029	13.712	41.2	69.25	80.25	83.6
80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	03/16/51-09/15/52	18	87.	83.333	98.	45.	175.176	13.235	53.1	82.5	90.5	94.4
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	03/16/51-09/15/52	18	92.	88.944	99.	53.	140.879	11.869	62.	88.5	96.	98.1
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	03/16/51-09/15/52	18	96.	93.444	100.	64.	89.673	9.47	72.1	94.	98.25	100.
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	01/14/81-06/04/81	6	3.7	3.7	3.8	3.5	0.012	0.11	**	**	**	**

** - 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

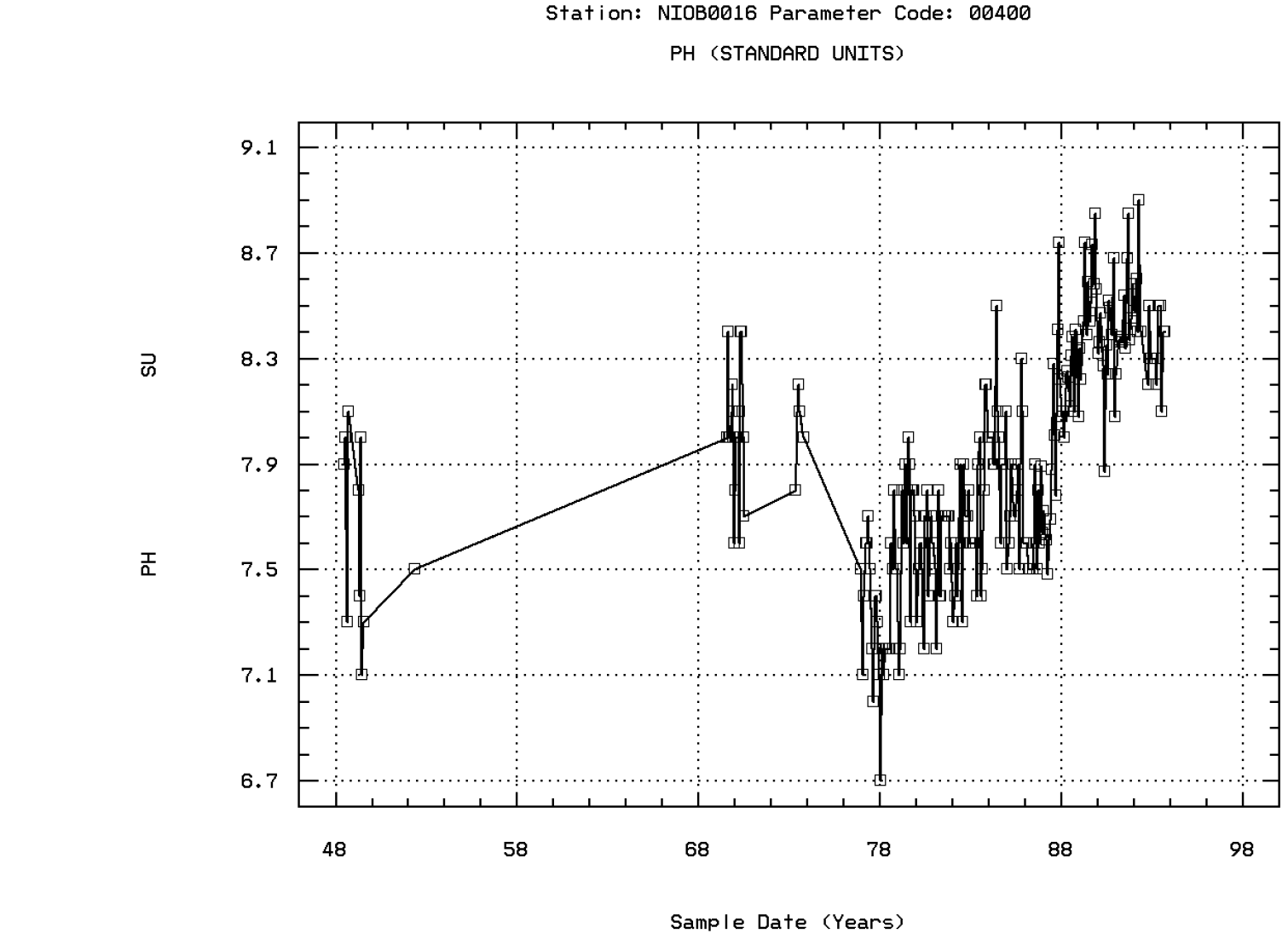
EPA Water Quality Criteria Analysis for Station: NIOB0016

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	23	0	0.00	10	0	0.00	5	0	0.00	8	0	0.00			
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	23	0	0.00	10	0	0.00	5	0	0.00	8	0	0.00			
00400	PH	Other-Hi Lim.	9.	238	0	0.00	110	0	0.00	31	0	0.00	97	0	0.00			
		Other-Lo Lim.	6.5	238	0	0.00	110	0	0.00	31	0	0.00	97	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	152	0	0.00	76	0	0.00	17	0	0.00	59	0	0.00			
		Other-Lo Lim.	6.5	152	0	0.00	76	0	0.00	17	0	0.00	59	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	30	0	0.00	14	0	0.00	4	0	0.00	12	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	207	0	0.00	99	0	0.00	26	0	0.00	82	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	218	0	0.00	102	0	0.00	26	0	0.00	90	0	0.00			
		Drinking Water	250.	218	0	0.00	102	0	0.00	26	0	0.00	90	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	215	0	0.00	101	0	0.00	26	0	0.00	88	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	214	0	0.00	100	0	0.00	26	0	0.00	88	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									
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									
01030	CHROMIUM, DISSOLVED	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									
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									
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									
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									
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									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00							1	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	10	0	0.00	2	0	0.00				8	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									

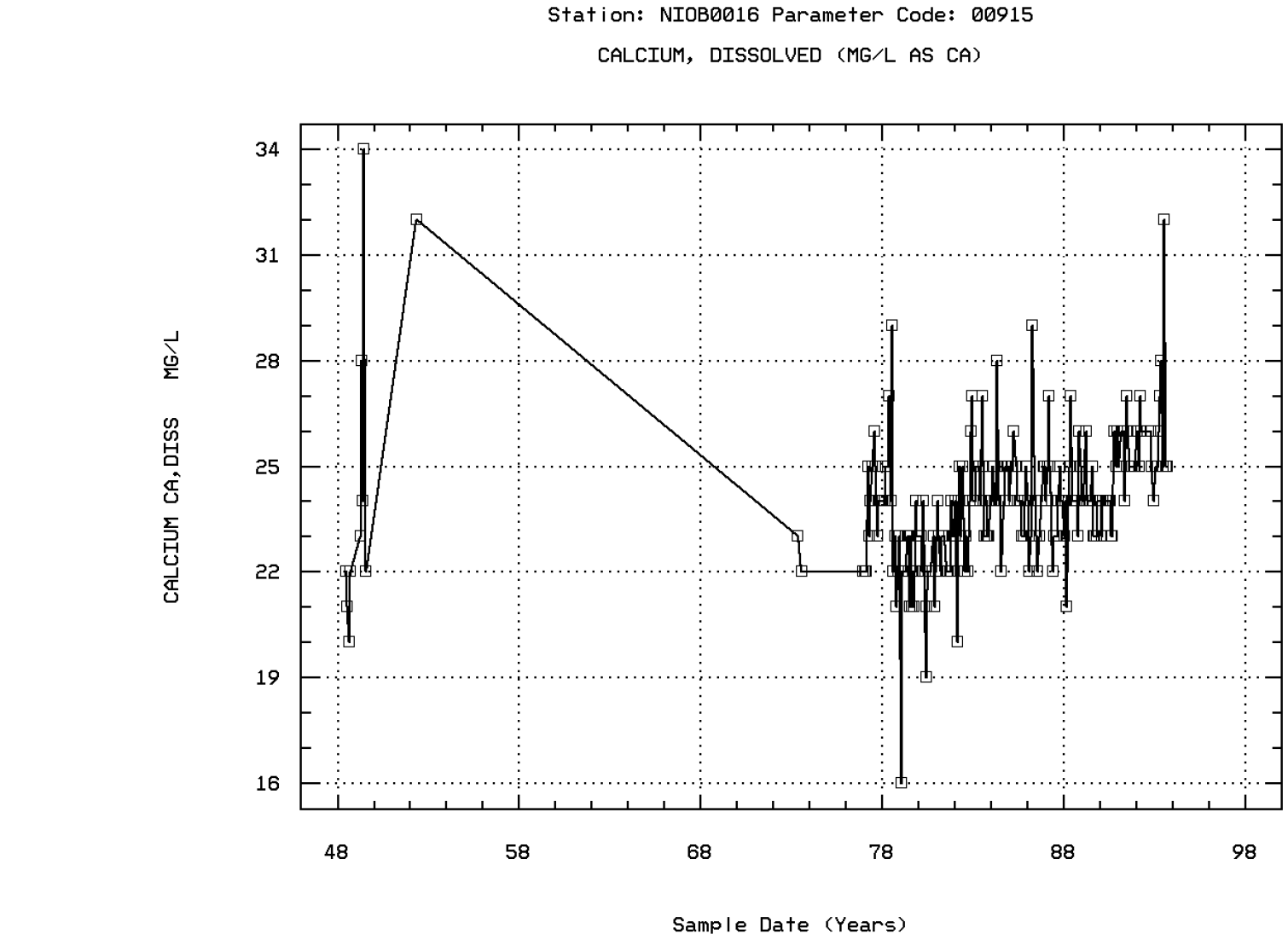
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter



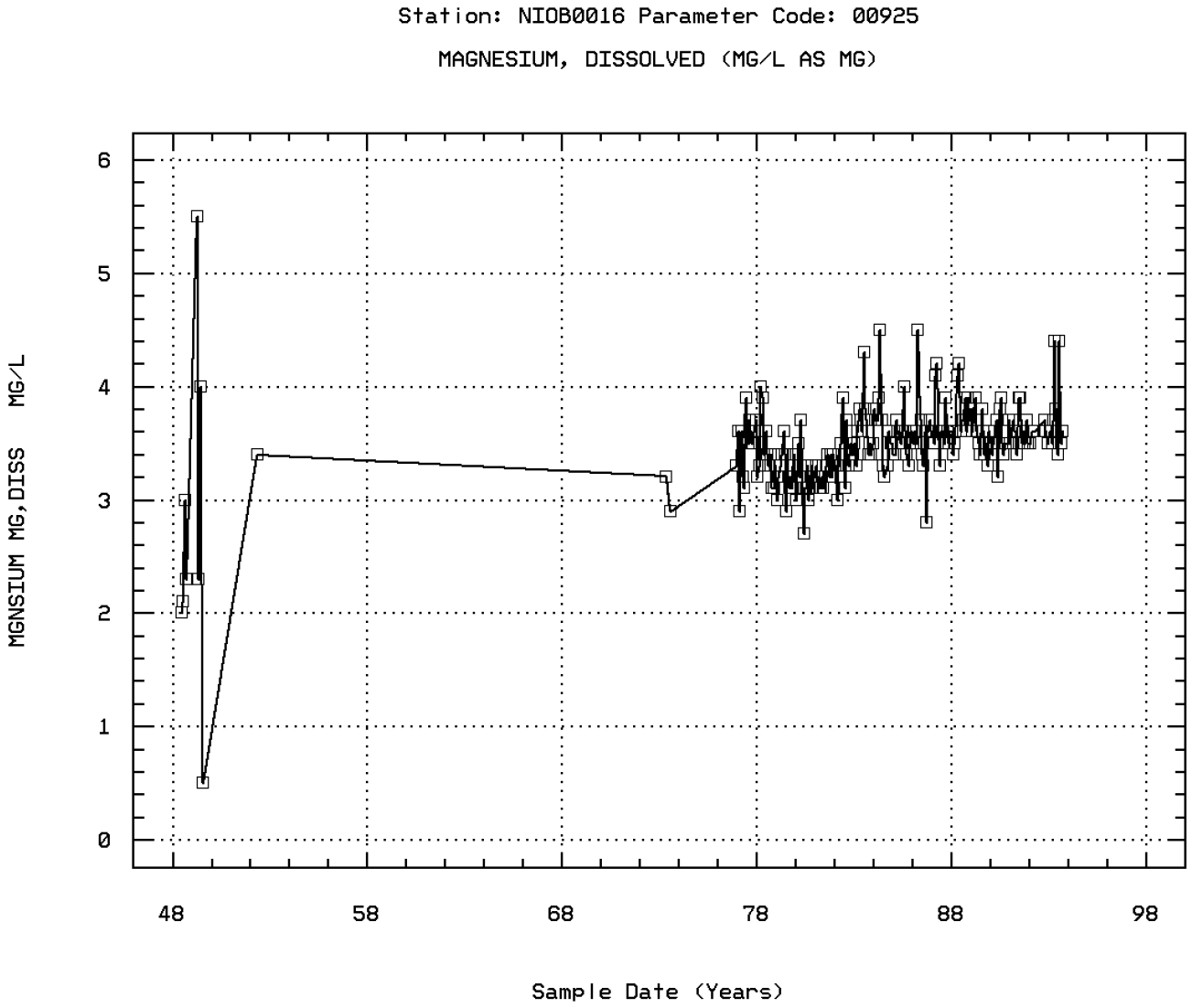
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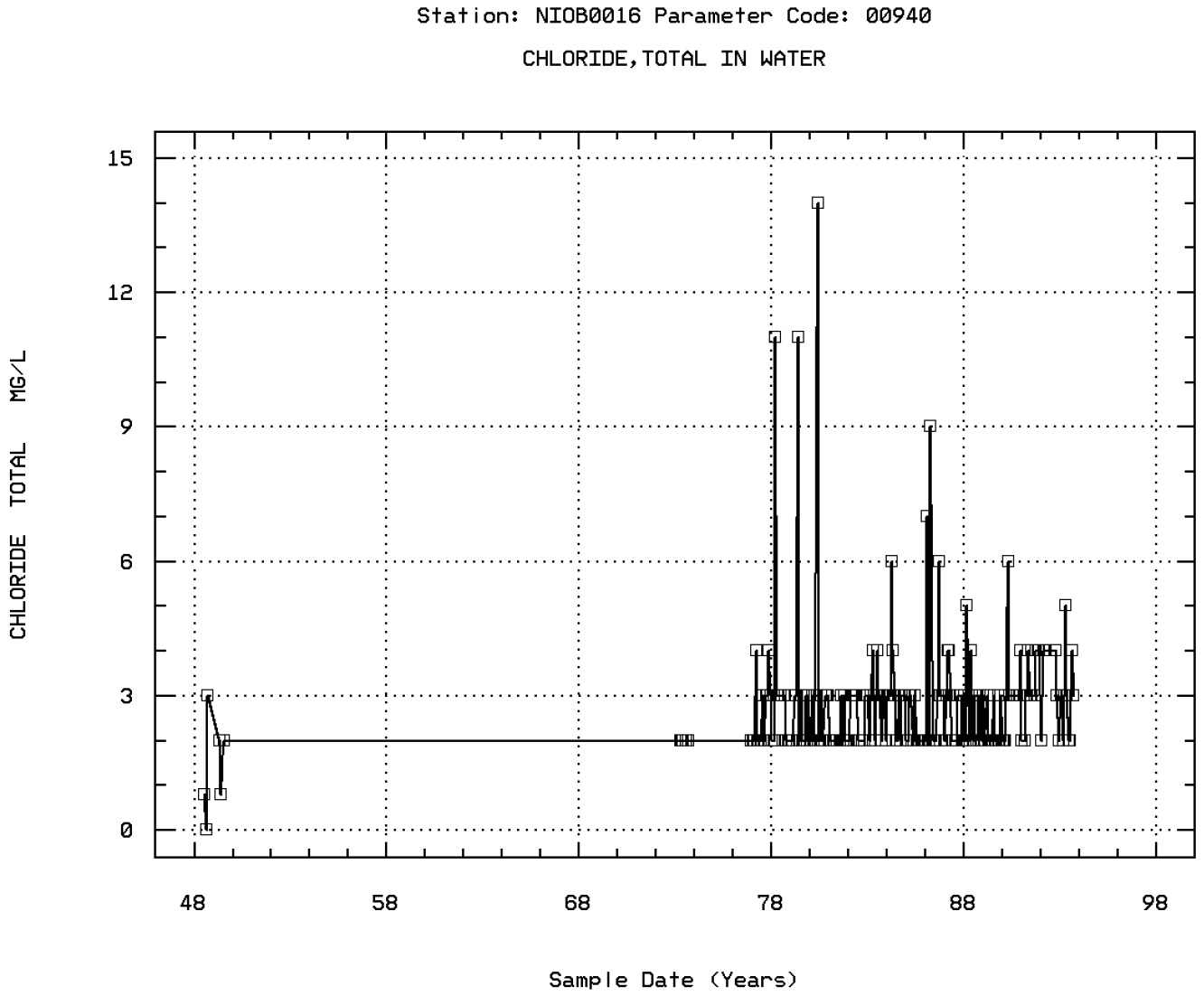
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LONG PINE CREEK NEAR RIVERVIEW, NEBR.



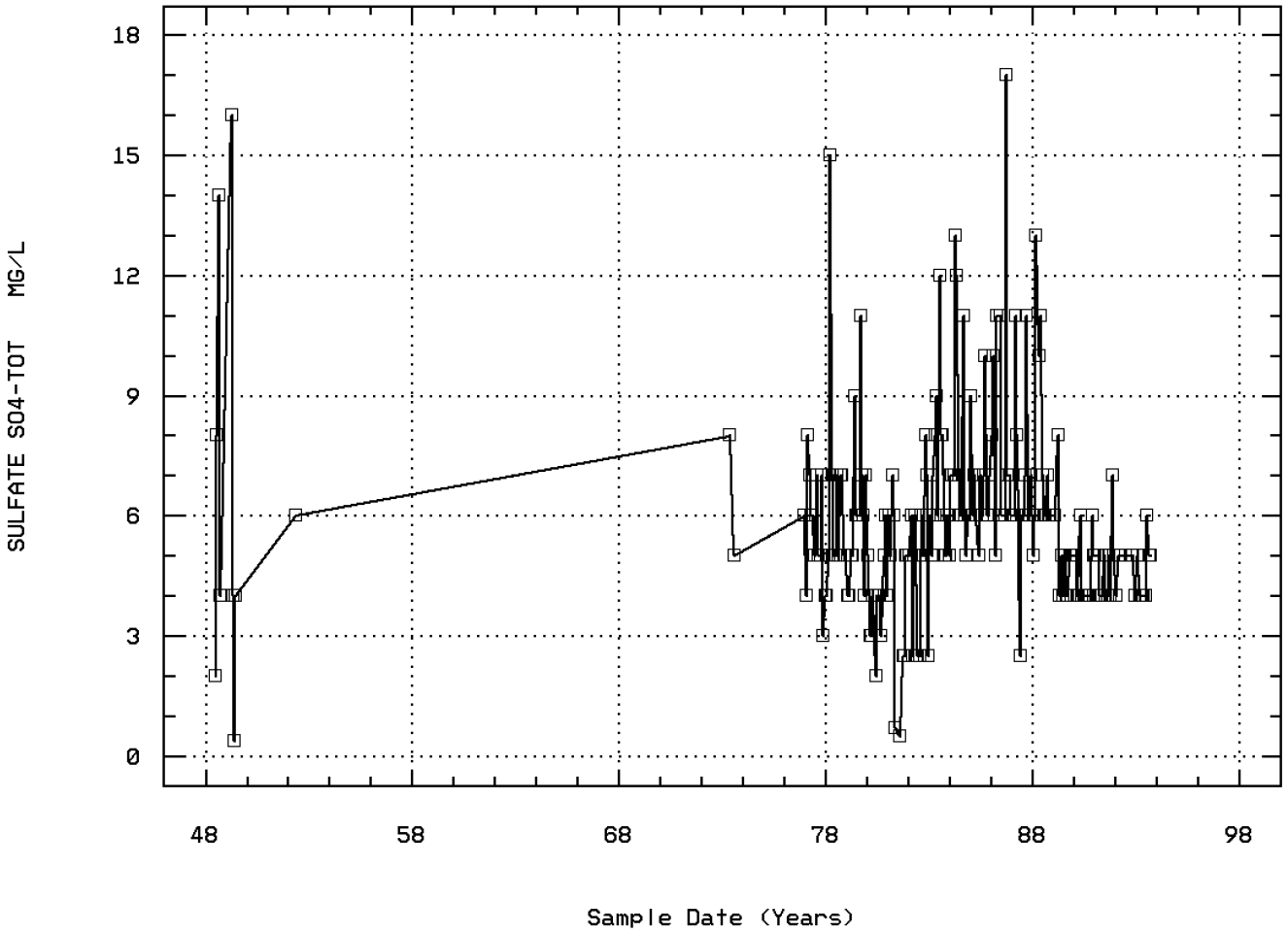
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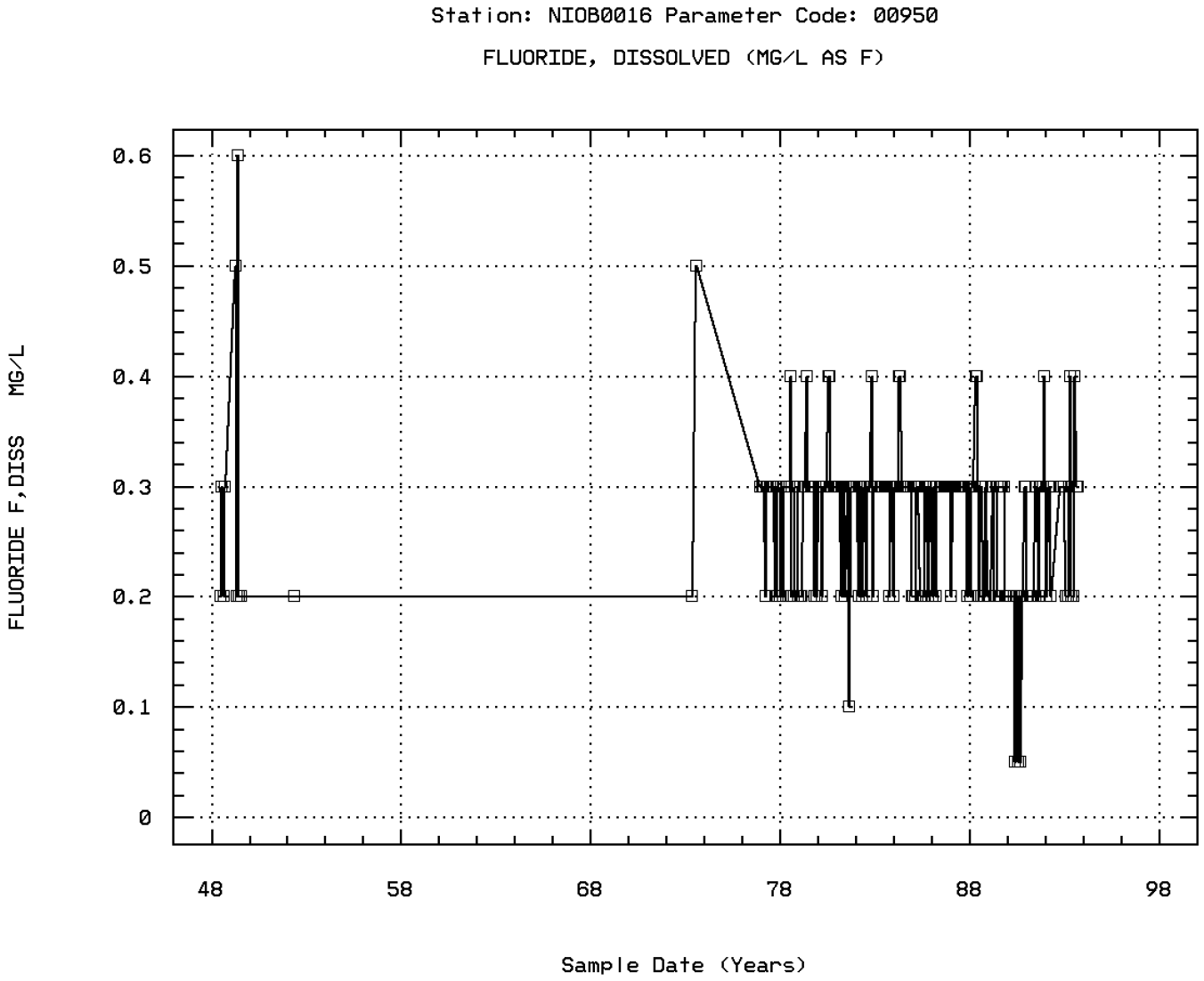
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Station: NIOB0016 Parameter Code: 00945

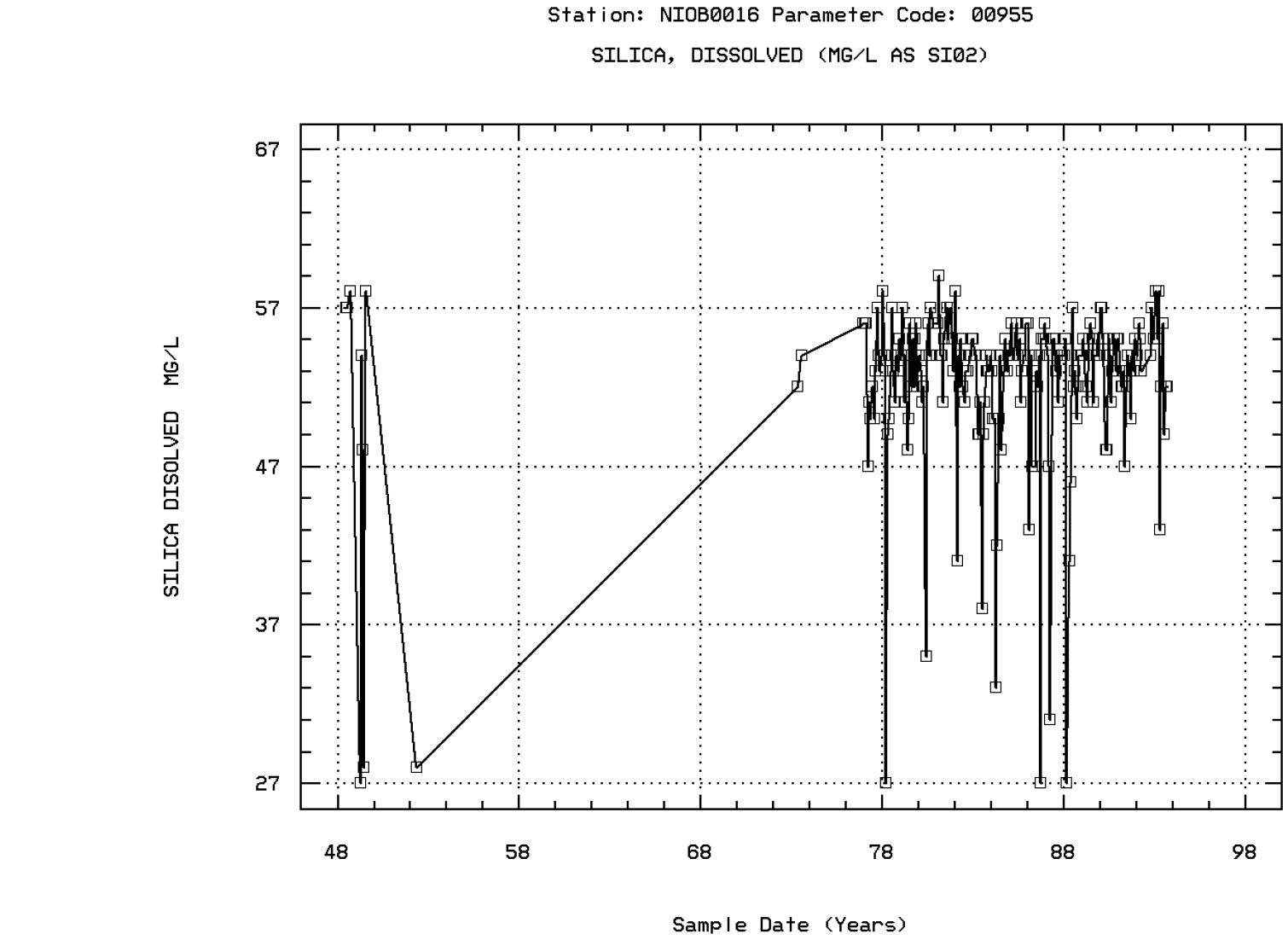
SULFATE, TOTAL (MG/L AS SO4)



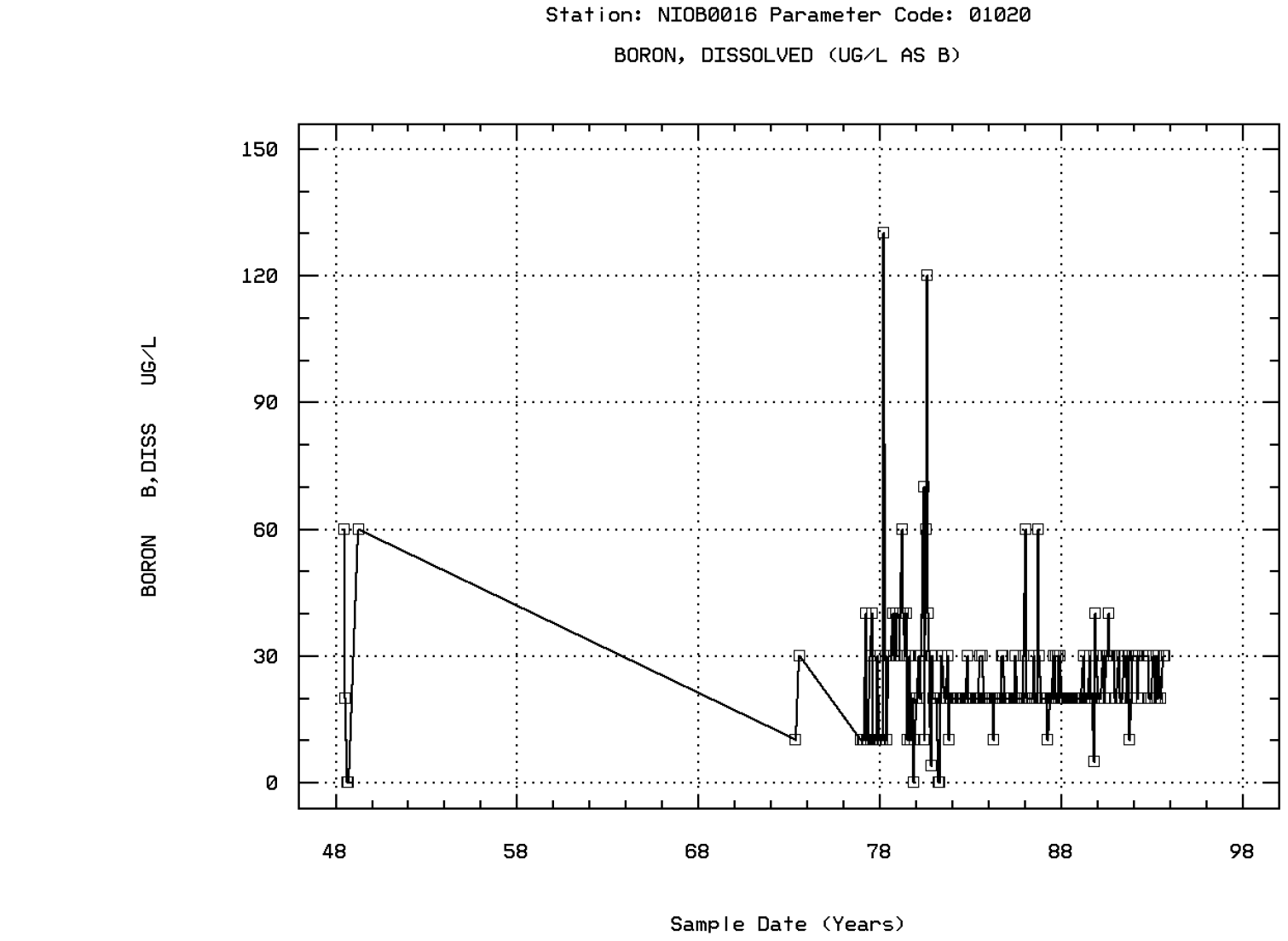
LONG PINE CREEK NEAR RIVERVIEW, NEBR.



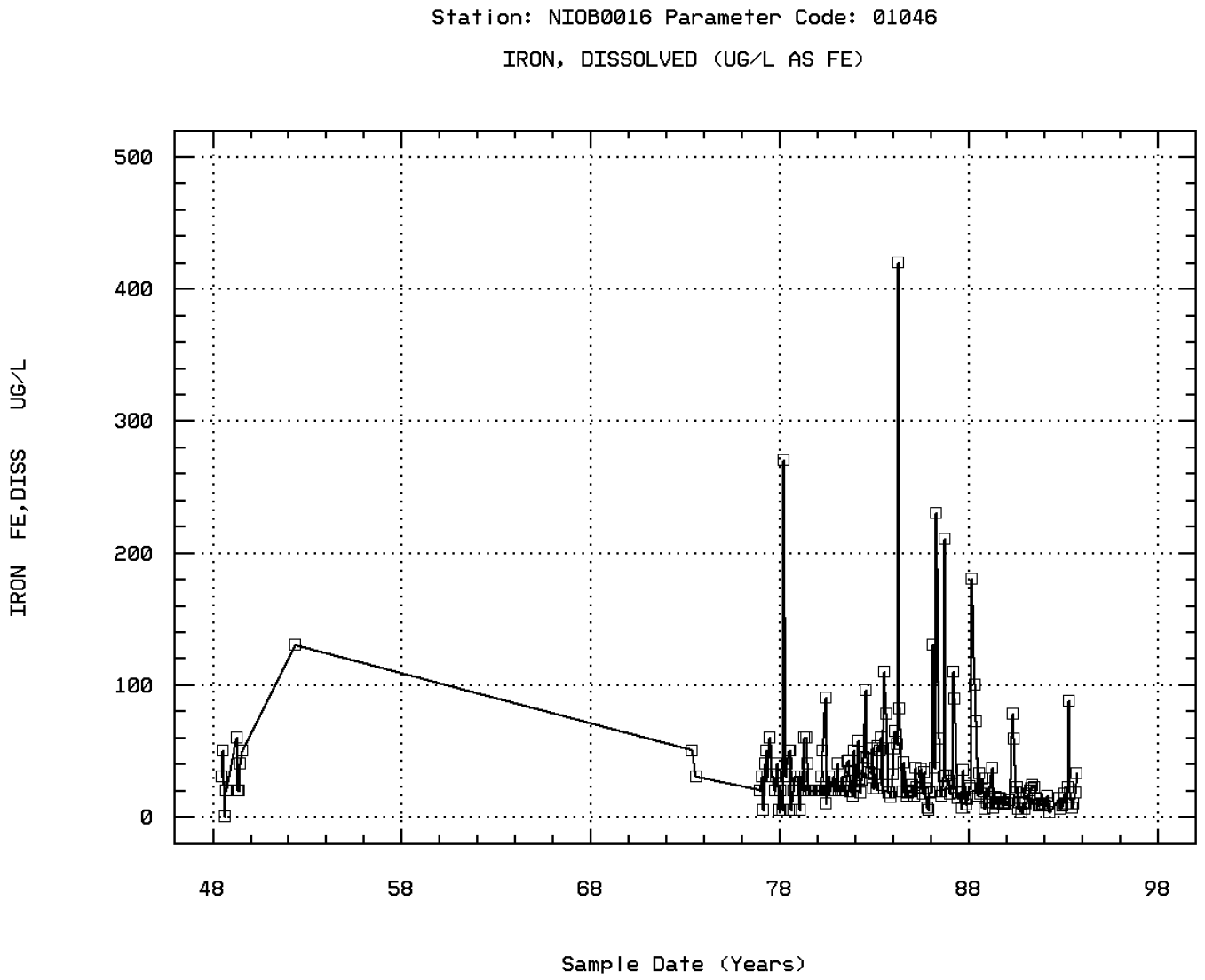
LONG PINE CREEK NEAR RIVERVIEW, NEBR.



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LONG PINE CREEK NEAR RIVERVIEW, NEBR.

Annual Analysis for 1948 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	11	101.	101.091	117.	89.	59.491	7.713	89.8	96.	105.	115.4
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	4	154.	154.25	158.	151.	10.917	3.304	**	**	**	**
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	4	7.95	7.825	8.1	7.3	0.129	0.359	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	4	7.947	7.695	8.1	7.3	0.152	0.389	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	4	0.011	0.02	0.05	0.008	0.	0.02	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/29/48-09/04/80	4	75.	75.	75.	75.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/29/48-02/05/86	4	62.5	62.5	64.	61.	1.667	1.291	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/29/48-09/04/80	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/29/48-09/09/93	4	21.5	21.25	22.	20.	0.917	0.957	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/29/48-09/09/93	4	2.2	2.35	3.	2.	0.203	0.451	**	**	**	**
00931	SODIUM ADSORPTION RATIO	06/29/48-02/05/86	4	0.6	0.575	0.7	0.4	0.022	0.15	**	**	**	**
00932	SODIUM, PERCENT	06/29/48-02/05/86	4	27.	27.	32.	22.	22.667	4.761	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/29/48-09/09/93	4	0.9	1.2	3.	0.	1.627	1.275	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/29/48-09/09/93	4	6.	7.	14.	2.	28.	5.292	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	06/29/48-09/09/93	4	0.25	0.25	0.3	0.2	0.003	0.058	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	06/29/48-09/09/93	3	57.	57.333	58.	57.	0.333	0.577	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	06/29/48-09/09/93	4	10.	20.	60.	0.	800.	28.284	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	06/29/48-09/09/93	4	25.	25.	50.	0.	433.333	20.817	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/29/48-02/05/86	4	142.	138.25	149.	120.	164.917	12.842	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	06/29/48-03/10/83	4	38.6	37.975	39.4	35.3	3.429	1.852	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/29/48-03/10/83	4	0.2	0.203	0.21	0.2	0.	0.005	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	04/06/48-09/15/52	11	20.	22.364	36.	6.	72.655	8.524	8.	18.	29.	35.
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	04/06/48-09/15/52	11	37.	33.273	47.	8.	126.618	11.252	10.	29.	40.	45.6
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	04/06/48-09/15/52	11	82.	76.	90.	54.	158.8	12.602	55.8	65.	87.	89.6
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	04/06/48-09/15/52	11	97.	95.273	99.	89.	13.218	3.636	89.4	92.	98.	99.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/06/48-09/15/52	11	234.	254.364	406.	165.	6511.655	80.695	167.2	189.	334.	395.6
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/06/48-09/15/52	11	456.	510.909	880.	341.	28393.291	168.503	344.2	372.	669.	838.4

** - 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 1949 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	18	115.	235.5	1068.	93.	61444.735	247.88	99.3	105.	269.	573.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	5	171.	180.	217.	161.	473.	21.749	**	**	**	**
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	5	7.4	7.52	8.	7.1	0.137	0.37	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	5	7.4	7.408	8.	7.1	0.153	0.391	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	5	0.04	0.039	0.079	0.01	0.001	0.028	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/29/48-09/04/80	5	81.	85.	107.	75.	162.5	12.748	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/29/48-02/05/86	5	80.	76.6	102.	57.	302.8	17.401	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/29/48-09/04/80	5	0.	0.4	2.	0.	0.8	0.894	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/29/48-09/09/93	5	24.	26.2	34.	22.	24.2	4.919	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/29/48-09/09/93	5	2.3	2.66	5.5	0.5	4.353	2.086	**	**	**	**
00931	SODIUM ADSORPTION RATIO	06/29/48-02/05/86	5	0.6	0.44	0.6	0.1	0.053	0.23	**	**	**	**
00932	SODIUM, PERCENT	06/29/48-02/05/86	5	24.	20.	29.	8.	81.5	9.028	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/29/48-09/09/93	5	1.	1.36	2.	0.8	0.348	0.59	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/29/48-09/09/93	5	4.	5.08	16.	0.4	40.032	6.327	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	06/29/48-09/09/93	5	0.2	0.34	0.6	0.2	0.038	0.195	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	06/29/48-09/09/93	5	48.	43.	58.	27.	213.	14.595	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	06/29/48-09/09/93	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	06/29/48-09/09/93	5	40.	38.	60.	20.	320.	17.889	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/29/48-02/05/86	5	141.	141.	146.	137.	11.5	3.391	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	06/29/48-03/10/83	5	56.6	72.32	122.	37.8	1380.032	37.149	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/29/48-03/10/83	5	0.21	0.212	0.24	0.19	0.	0.019	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	04/06/48-09/15/52	18	30.	38.333	87.	11.	602.353	24.543	13.7	20.5	51.	84.3
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	04/06/48-09/15/52	18	42.5	52.444	96.	20.	653.203	25.558	24.5	31.75	70.25	96.
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	04/06/48-09/15/52	9	85.	80.111	96.	53.	273.861	16.549	53.	64.	93.5	96.

** - 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 1949 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	04/06/48-09/15/52	4	99.	99.25	100.	99.	0.25	0.5	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/06/48-09/15/52	18	612.	5003.444	31550.	211.	78368547.085	8852.601	289.3	430.75	4550.	19625.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/06/48-09/15/52	18	1175.	2387.333	9870.	118.	6871300.941	2621.317	127.	706.5	3547.5	6225.

** - 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 1950 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	23	130.	208.652	658.	100.	18926.874	137.575	101.8	112.	306.	372.4
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	04/06/48-09/15/52	23	34.	35.957	69.	12.	262.498	16.202	14.	22.	48.	60.6
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	04/06/48-09/15/52	23	60.	60.13	82.	27.	230.573	15.185	37.	50.	74.	80.2
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	04/06/48-09/15/52	23	95.	92.652	99.	83.	32.964	5.741	83.4	86.	97.	99.
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	04/06/48-09/15/52	15	100.	98.533	100.	89.	9.267	3.044	92.	99.	100.	100.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/06/48-09/15/52	23	1420.	4433.522	28400.	261.	43947139.715	6629.264	285.	438.	7160.	13260.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/06/48-09/15/52	23	1240.	2688.043	11200.	73.	10512333.68	3242.273	80.	135.	3820.	8244.

** - 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 1951 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	14	18.5	16.	25.5	3.5	48.385	6.956	3.75	12.	20.25	23.25
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	20	152.5	472.4	3450.	103.	649284.147	805.782	109.1	122.	370.5	1410.
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	04/06/48-09/15/52	15	30.	34.267	80.	16.	347.352	18.637	16.	19.	51.	63.2
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	04/06/48-09/15/52	15	60.	60.933	92.	35.	308.495	17.564	37.4	45.	77.	86.
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	04/06/48-09/15/52	15	97.	94.6	99.	84.	19.971	4.469	85.2	92.	98.	98.4
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	04/06/48-09/15/52	15	100.	100.	100.	100.	0.	0.	100.	100.	100.	100.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/06/48-09/15/52	15	1020.	4396.	16600.	385.	38401374.714	6196.884	424.	470.	6780.	16600.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/06/48-09/15/52	15	400.	2813.	13500.	107.	18141759.286	4259.314	123.2	151.	6540.	11112.

** - 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 1952 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	16	23.	19.094	26.5	6.	45.174	6.721	7.4	13.5	23.875	25.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	25	118.	207.4	867.	104.	40779.833	201.94	107.6	110.	211.	530.6
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	1	242.	242.	242.	242.	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/29/48-09/04/80	1	120.	120.	120.	120.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/29/48-02/05/86	1	94.	94.	94.	94.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/29/48-09/04/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/29/48-09/09/93	1	32.	32.	32.	32.	0.	0.	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/29/48-09/09/93	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	06/29/48-02/05/86	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	06/29/48-02/05/86	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/29/48-09/09/93	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/29/48-09/09/93	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	06/29/48-09/09/93	1	0.2	0.2	0.2	0.2	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 1952 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00955p	SILICA, DISSOLVED (MG/L AS SI02)	06/29/48-09/09/93	1	28.	28.	28.	28.	0.	0.	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	06/29/48-09/09/93	1	130.	130.	130.	130.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/29/48-02/05/86	1	161.	161.	161.	161.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	06/29/48-03/10/83	1	403.	403.	403.	403.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/29/48-03/10/83	1	0.27	0.27	0.27	0.27	0.	0.	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	04/06/48-09/15/52	16	23.5	27.	69.	14.	169.467	13.018	14.7	20.25	32.	45.9
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	04/06/48-09/15/52	16	57.	56.125	85.	33.	166.783	12.914	37.2	47.25	63.5	76.6
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	04/06/48-09/15/52	16	95.	92.875	98.	78.	29.717	5.451	80.8	92.25	96.	97.3
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	04/06/48-09/15/52	16	100.	99.438	100.	95.	1.596	1.263	97.8	99.	100.	100.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/06/48-09/15/52	16	559.5	1528.375	11300.	350.	8006822.117	2829.633	364.	394.25	959.	6820.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/06/48-09/15/52	16	195.5	1636.313	15800.	98.	16600102.763	4074.322	106.4	125.5	659.75	9157.

** - 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 1969 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	9	8.	9.778	19.5	2.5	37.257	6.104	2.5	4.5	15.5	19.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/69-09/09/93	9	15.	12.611	24.5	-3.	111.924	10.579	0.	6.25	22.5	24.5
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	9	166.	166.667	184.	159.	71.5	8.456	159.	159.5	171.5	184.
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	9	8.	8.033	8.4	7.6	0.045	0.212	7.6	8.	8.15	8.4
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	9	8.	7.984	8.4	7.6	0.048	0.218	7.6	8.	8.15	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	9	0.01	0.01	0.025	0.004	0.	0.006	0.004	0.007	0.01	0.025

** - 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 1970 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	12	5.25	8.583	22.5	0.	56.902	7.543	0.6	3.25	16.875	21.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/69-09/09/93	12	8.	7.292	27.	-15.	174.975	13.228	3.	4.375	26.25	-13.5
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	12	165.5	179.083	282.	163.	1142.083	33.795	163.	164.	183.75	254.7
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	12	8.	8.	8.4	7.6	0.056	0.237	7.63	7.85	8.075	8.4
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	12	8.	7.943	8.4	7.6	0.06	0.245	7.63	7.85	8.075	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	12	0.01	0.011	0.025	0.004	0.	0.006	0.004	0.008	0.014	0.024

** - 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 1973 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	7	16.5	18.071	24.	11.	27.786	5.271	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/69-09/09/93	2	22.	22.	31.	13.	162.	12.728	**	**	**	**
00080p	COLOR (PLATINUM-COBALT UNITS)	05/16/73-09/09/93	2	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	5	176.	177.2	185.	172.	22.7	4.764	**	**	**	**
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	4	8.05	8.025	8.2	7.8	0.029	0.171	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	4	8.047	7.999	8.2	7.8	0.03	0.173	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	4	0.009	0.01	0.016	0.006	0.	0.004	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/29/48-09/04/80	2	79.5	79.5	80.	79.	0.5	0.707	**	**	**	**
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/25/73-09/09/93	5	0.8	0.72	0.9	0.5	0.027	0.164	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/25/73-09/09/93	5	0.24	0.248	0.3	0.21	0.001	0.037	**	**	**	**
00666p	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/25/73-09/09/93	5	0.18	0.168	0.19	0.12	0.001	0.029	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/29/48-02/05/86	2	69.	69.	71.	67.	8.	2.828	**	**	**	**

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Annual Analysis for 1973 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/29/48-09/04/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/29/48-09/09/93	2	22.5	22.5	23.	22.	0.5	0.707	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/29/48-09/09/93	2	3.05	3.05	3.2	2.9	0.045	0.212	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/73-09/09/93	2	6.9	6.9	7.	6.8	0.02	0.141	**	**	**	**
00931	SODIUM ADSORPTION RATIO	06/29/48-02/05/86	2	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	06/29/48-02/05/86	2	16.5	16.5	17.	16.	0.5	0.707	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/73-09/09/93	2	5.35	5.35	5.4	5.3	0.005	0.071	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/29/48-09/09/93	5	2.	2.	2.	2.	0.	0.	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/29/48-09/09/93	2	6.5	6.5	8.	5.	4.5	2.121	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	06/29/48-09/09/93	2	0.35	0.35	0.5	0.2	0.045	0.212	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	06/29/48-09/09/93	2	53.	53.	54.	52.	2.	1.414	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	06/29/48-09/09/93	2 ##	20.	20.	30.	10.	200.	14.142	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	06/29/48-09/09/93	2	40.	40.	50.	30.	200.	14.142	**	**	**	**
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	05/16/73-09/09/93	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/29/48-02/05/86	2	150.5	150.5	152.	149.	4.5	2.121	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	06/29/48-03/10/83	5	62.4	62.76	71.2	55.	47.488	6.891	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/29/48-03/10/83	5	0.21	0.21	0.23	0.2	0.	0.012	**	**	**	**

** - 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 1976 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/69-09/09/93	1	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	1	138.	138.	138.	138.	0.	0.	**	**	**	**
00080p	COLOR (PLATINUM-COBALT UNITS)	05/16/73-09/09/93	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	1	177.	177.	177.	177.	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/29/48-09/04/80	1	74.	74.	74.	74.	0.	0.	**	**	**	**
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/25/73-09/09/93	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00666p	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/25/73-09/09/93	1	0.18	0.18	0.18	0.18	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/29/48-02/05/86	1	69.	69.	69.	69.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/29/48-09/04/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/29/48-09/09/93	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/29/48-09/09/93	1	3.3	3.3	3.3	3.3	0.	0.	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/73-09/09/93	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	06/29/48-02/05/86	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	06/29/48-02/05/86	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/73-09/09/93	1	5.2	5.2	5.2	5.2	0.	0.	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/29/48-09/09/93	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/29/48-09/09/93	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	06/29/48-09/09/93	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	06/29/48-09/09/93	1	56.	56.	56.	56.	0.	0.	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	06/29/48-09/09/93	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	06/29/48-09/09/93	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	05/16/73-09/09/93	1	20.	20.	20.	20.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/29/48-02/05/86	1	152.	152.	152.	152.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	06/29/48-03/10/83	1	56.6	56.6	56.6	56.6	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/29/48-03/10/83	1	0.21	0.21	0.21	0.21	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 1977 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	12	15.	12.625	21.5	1.5	51.324	7.164	2.25	6.	19.	21.35
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/69-09/09/93	12	18.25	15.542	28.	-9.	130.066	11.405	5.65	4.125	26.125	27.55
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	12	144.5	147.583	179.	116.	364.992	19.105	119.	135.25	163.25	178.1
00080p	COLOR (PLATINUM-COBALT UNITS)	05/16/73-09/09/93	12	11.5	14.	35.	4.	96.727	9.835	4.3	7.	22.5	32.6
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	12	180.5	180.417	194.	162.	68.447	8.273	164.7	177.5	186.5	192.2
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	12	7.4	7.358	7.7	7.	0.05	0.223	7.03	7.125	7.575	7.67
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	12	7.4	7.306	7.7	7.	0.053	0.23	7.03	7.125	7.575	7.67
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	12	0.04	0.049	0.1	0.02	0.001	0.026	0.022	0.027	0.075	0.094
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/29/48-09/04/80	12	80.	79.083	83.	71.	12.447	3.528	71.9	78.	82.	82.7
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/25/73-09/09/93	12	1.2	1.225	1.7	0.5	0.095	0.308	0.65	1.1	1.4	1.67
00666p	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/25/73-09/09/93	12	0.215	0.222	0.33	0.17	0.002	0.048	0.17	0.183	0.258	0.312
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/29/48-02/05/86	12	74.5	74.167	79.	67.	14.152	3.762	67.9	71.25	77.75	79.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/29/48-09/04/80	12	0.	0.083	1.	0.	0.083	0.289	0.	0.	0.	0.7
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/29/48-09/09/93	12	24.	23.917	26.	22.	1.538	1.24	22.	23.	25.	25.7
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/29/48-09/09/93	12	3.55	3.483	3.9	2.9	0.08	0.282	2.96	3.275	3.675	3.84
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/73-09/09/93	12	7.2	7.317	8.5	6.5	0.409	0.639	6.5	6.8	7.575	8.47
00931	SODIUM ADSORPTION RATIO	06/29/48-02/05/86	12	0.4	0.383	0.4	0.3	0.002	0.039	0.3	0.4	0.4	0.4
00932	SODIUM, PERCENT	06/29/48-02/05/86	12	16.	16.417	18.	15.	0.811	0.9	15.3	16.	17.	18.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/73-09/09/93	12	5.65	5.75	7.5	4.6	0.734	0.857	4.6	5.225	6.275	7.32
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/29/48-09/09/93	12	2.5	2.667	4.	2.	0.606	0.778	2.	2.	3.	4.
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/29/48-09/09/93	12	5.5	5.583	8.	3.	2.265	1.505	3.3	4.25	7.	7.7
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	06/29/48-09/09/93	12	0.3	0.267	0.3	0.2	0.002	0.049	0.2	0.2	0.3	0.3
00955p	SILICA, DISSOLVED (MG/L AS SI02)	06/29/48-09/09/93	12	53.	52.75	57.	47.	8.568	2.927	47.9	50.25	55.5	56.7
01020p	BORON, DISSOLVED (UG/L AS B)	06/29/48-09/09/93	12 ##	10.	18.333	40.	10.	160.606	12.673	10.	10.	30.	40.
01046p	IRON, DISSOLVED (UG/L AS FE)	06/29/48-09/09/93	12	30.	30.833	60.	5.	258.333	16.073	5.	22.5	40.	57.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	05/16/73-09/09/93	12 ##	5.	5.167	8.	4.	0.879	0.937	4.3	5.	5.	7.1
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/29/48-02/05/86	12	155.	154.5	159.	148.	10.636	3.261	148.9	152.25	157.25	159.
70302	SOLIDS, DISSOLVED-TONS PER DAY	06/29/48-03/10/83	12	60.9	61.642	76.8	48.5	78.479	8.859	49.04	56.125	68.35	76.29
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/29/48-03/10/83	12	0.21	0.211	0.22	0.2	0.	0.005	0.203	0.21	0.21	0.22

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Annual Analysis for 1978 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	12	12.5	11.583	28.	0.	83.174	9.12	0.6	3.125	20.	26.2
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/69-09/09/93	9	25.	13.667	34.5	-15.5	278.75	16.696	-0.5	5.5	31.25	-15.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	12	150.	163.833	339.	108.	3385.788	58.188	115.8	137.	168.75	290.1
00080p	COLOR (PLATINUM-COBALT UNITS)	05/16/73-09/09/93	9	7.	25.444	160.	2.	2576.528	50.76	2.	5.5	17.5	160.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	12	178.5	185.167	225.	173.	233.242	15.272	173.	175.25	189.5	218.1
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	12	7.2	7.308	7.8	6.7	0.083	0.287	6.82	7.2	7.5	7.74
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	12	7.2	7.216	7.8	6.7	0.092	0.303	6.82	7.2	7.5	7.74
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	12	0.063	0.061	0.2	0.016	0.002	0.048	0.019	0.032	0.063	0.163
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/29/48-09/04/80	12	80.	82.083	98.	71.	68.265	8.262	71.6	75.5	90.	95.6
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/25/73-09/09/93	12	1.3	1.317	1.9	0.7	0.122	0.349	0.79	1.025	1.6	1.81
00666p	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/25/73-09/09/93	12	0.18	0.316	1.8	0.14	0.22	0.469	0.14	0.163	0.205	1.341
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/29/48-02/05/86	12	73.5	74.25	86.	65.	36.75	6.062	65.9	69.5	79.	84.5
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/29/48-09/04/80	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/29/48-09/09/93	12	24.	24.083	29.	21.	4.992	2.234	21.3	22.25	25.	28.4
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/29/48-09/09/93	12	3.35	3.417	4.	3.1	0.082	0.286	3.1	3.225	3.55	3.97
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/73-09/09/93	12	6.9	7.408	9.8	6.5	1.004	1.002	6.59	6.825	7.7	9.56
00931	SODIUM ADSORPTION RATIO	06/29/48-02/05/86	12	0.4	0.392	0.5	0.3	0.003	0.051	0.3	0.4	0.4	0.47
00932	SODIUM, PERCENT	06/29/48-02/05/86	12	16.	16.25	19.	14.	1.295	1.138	14.6	16.	16.75	18.4
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/73-09/09/93	12	5.35	6.908	23.	4.8	25.926	5.092	4.86	5.1	5.925	18.08
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/29/48-09/09/93	12	2.	2.917	11.	1.	6.992	2.644	1.	2.	3.	8.6
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/29/48-09/09/93	12	5.	6.417	15.	4.	8.447	2.906	4.3	5.	7.	12.6
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	06/29/48-09/09/93	12	0.3	0.275	0.4	0.2	0.004	0.062	0.2	0.2	0.3	0.37

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Annual Analysis for 1978 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00955p	SILICA, DISSOLVED (MG/L AS SI02)	06/29/48-09/09/93	12	53.	51.167	58.	27.	64.697	8.043	33.6	50.25	54.75	57.7
01020p	BORON, DISSOLVED (UG/L AS B)	06/29/48-09/09/93	12	30.	35.	130.	10.	1009.091	31.766	10.	15.	37.5	103.
01046p	IRON, DISSOLVED (UG/L AS FE)	06/29/48-09/09/93	12	30.	48.333	270.	5.	5083.333	71.297	5.	20.	47.5	204.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	05/16/73-09/09/93	12 ##	5.	6.833	40.	1.	111.606	10.564	1.3	2.	5.	29.5
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/29/48-02/05/86	10	156.	159.1	183.	147.	112.322	10.598	147.3	150.75	165.	181.5
70302	SOLIDS, DISSOLVED-TONS PER DAY	06/29/48-03/10/83	10	66.25	73.98	168.	45.2	1182.453	34.387	46.29	56.175	72.375	159.18
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/29/48-03/10/83	10	0.21	0.217	0.25	0.2	0.	0.014	0.201	0.21	0.223	0.248

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Annual Analysis for 1979 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	14	15.5	15.179	29.	1.	77.139	8.783	1.5	8.875	21.5	28.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/69-09/09/93	13	24.5	15.577	37.	-19.	266.244	16.317	8.2	13.25	36.	-15.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	14	163.	159.357	196.	137.	340.247	18.446	137.5	139.	172.5	187.
00080p	COLOR (PLATINUM-COBALT UNITS)	05/16/73-09/09/93	4	10.	8.75	10.	5.	6.25	2.5	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	14	178.5	183.214	234.	169.	290.027	17.03	170.	173.5	186.25	217.5
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	14	7.8	7.664	8.	7.1	0.076	0.276	7.15	7.525	7.825	7.95
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	14	7.8	7.569	8.	7.1	0.086	0.293	7.15	7.525	7.825	7.95
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	14	0.016	0.027	0.079	0.01	0.	0.021	0.011	0.015	0.031	0.071
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/29/48-09/04/80	14	76.5	76.5	87.	62.	47.038	6.858	66.	71.	82.	86.
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/25/73-09/09/93	14	1.15	1.179	1.6	0.8	0.076	0.275	0.85	0.9	1.425	1.6
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/25/73-09/09/93	3	0.3	0.33	0.42	0.27	0.006	0.079	**	**	**	**
00666p	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/25/73-09/09/93	12	0.19	0.185	0.65	0.01	0.028	0.168	0.01	0.053	0.208	0.524
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/29/48-02/05/86	14	68.5	68.	74.	52.	29.846	5.463	58.	66.	71.25	74.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/29/48-09/04/80	14	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/29/48-09/09/93	14	22.	21.786	24.	16.	3.566	1.888	18.5	21.	23.	23.5
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/29/48-09/09/93	14	3.25	3.25	3.6	2.9	0.035	0.187	2.95	3.1	3.4	3.5
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/73-09/09/93	14	7.6	8.036	14.	6.5	3.516	1.875	6.65	6.95	8.4	11.5
00931	SODIUM ADSORPTION RATIO	06/29/48-02/05/86	14	0.4	0.436	0.7	0.4	0.007	0.084	0.4	0.4	0.425	0.6
00932	SODIUM, PERCENT	06/29/48-02/05/86	14	19.	19.214	25.	16.	7.104	2.665	16.	17.	21.25	23.5
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/73-09/09/93	14	5.9	6.393	14.	4.7	5.081	2.254	4.85	5.475	6.25	10.35
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/29/48-09/09/93	14	2.	3.	11.	2.	5.538	2.353	2.	2.	3.	7.
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/29/48-09/09/93	14	6.	6.143	11.	4.	3.824	1.956	4.	4.75	7.	10.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	06/29/48-09/09/93	13	0.3	0.277	0.4	0.2	0.004	0.06	0.2	0.2	0.3	0.36
00955p	SILICA, DISSOLVED (MG/L AS SI02)	06/29/48-09/09/93	13	54.	53.231	57.	48.	7.026	2.651	48.8	51.5	55.5	56.6
01020p	BORON, DISSOLVED (UG/L AS B)	06/29/48-09/09/93	12	30.	26.667	60.	0.	296.97	17.233	3.	10.	40.	54.
01046p	IRON, DISSOLVED (UG/L AS FE)	06/29/48-09/09/93	12	20.	27.917	60.	5.	288.447	16.984	9.5	20.	37.5	60.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	05/16/73-09/09/93	12	3.	3.333	7.	1.	3.515	1.875	1.	2.	5.	6.4
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/29/48-02/05/86	13	153.	153.385	179.	135.	104.923	10.243	139.	147.5	156.5	172.2
70302	SOLIDS, DISSOLVED-TONS PER DAY	06/29/48-03/10/83	13	64.9	65.362	94.7	49.9	120.621	10.983	52.3	57.75	68.95	85.86
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/29/48-03/10/83	13	0.21	0.207	0.24	0.18	0.	0.014	0.188	0.2	0.21	0.232

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Annual Analysis for 1980 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	12	10.75	13.458	25.5	4.	48.884	6.992	4.6	7.5	19.625	24.6
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/69-09/09/93	12	14.5	17.25	36.	-0.5	101.614	10.08	4.05	12.125	25.125	33.45
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	12	159.5	165.75	271.	131.	1342.205	36.636	133.4	141.5	174.5	244.3
00080p	COLOR (PLATINUM-COBALT UNITS)	05/16/73-09/09/93	11	15.	40.909	320.	0.	8639.091	92.947	1.	5.	20.	262.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	12	174.5	175.25	191.	154.	77.477	8.802	159.7	173.	178.25	189.5
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	12	7.6	7.558	7.8	7.2	0.032	0.178	7.23	7.425	7.7	7.77

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Annual Analysis for 1980 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	12	7.6	7.522	7.8	7.2	0.033	0.182	7.23	7.425	7.7	7.77
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	12	0.025	0.03	0.063	0.016	0.	0.014	0.017	0.02	0.038	0.059
00403p	PH, LAB, STANDARD UNITS SU	11/20/80-09/09/93	2	8.	8.	8.	8.	0.	0.	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	11/20/80-09/09/93	2	8.	8.	8.	8.	0.	0.	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/80-09/09/93	2	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/29/48-09/04/80	9	78.	76.	81.	63.	28.75	5.362	63.	74.5	79.	81.
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/25/73-09/09/93	12	1.2	1.217	1.6	0.7	0.078	0.279	0.76	1.025	1.475	1.6
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/25/73-09/09/93	6	0.275	0.257	0.32	0.18	0.003	0.059	**	**	**	**
00666p	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/25/73-09/09/93	11	0.21	0.235	0.46	0.16	0.007	0.083	0.162	0.18	0.27	0.424
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/29/48-02/05/86	12	68.	68.083	75.	59.	16.265	4.033	60.8	65.5	70.75	74.1
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/29/48-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/29/48-09/09/93	12	22.	22.	24.	19.	1.636	1.279	19.6	21.25	23.	23.7
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/29/48-09/09/93	12	3.15	3.183	3.7	2.7	0.065	0.255	2.79	3.025	3.3	3.64
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/73-09/09/93	12	7.55	7.525	9.3	5.8	0.698	0.836	6.16	7.025	7.85	9.
00931	SODIUM ADSORPTION RATIO	06/29/48-02/05/86	12	0.4	0.4	0.5	0.3	0.002	0.043	0.33	0.4	0.4	0.47
00932	SODIUM, PERCENT	06/29/48-02/05/86	12	18.	17.833	19.	16.	1.061	1.03	16.3	17.	19.	19.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/73-09/09/93	12	5.65	5.892	7.5	5.	0.783	0.885	5.03	5.225	6.65	7.47
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/29/48-09/09/93	12	3.	3.5	14.	2.	11.182	3.344	2.	2.	3.	10.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/29/48-09/09/93	12	4.	3.917	6.	2.	1.174	1.084	2.3	3.	4.75	5.7
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	06/29/48-09/09/93	12	0.3	0.308	0.4	0.2	0.003	0.051	0.23	0.3	0.3	0.4
00955p	SILICA, DISSOLVED (MG/L AS SI02)	06/29/48-09/09/93	12	54.	52.833	57.	35.	34.879	5.906	39.8	52.25	56.	56.7
01020p	BORON, DISSOLVED (UG/L AS B)	06/29/48-09/09/93	12	30.	37.833	120.	4.	1030.879	32.107	5.8	20.	55.	105.
01046p	IRON, DISSOLVED (UG/L AS FE)	06/29/48-09/09/93	12	20.	30.	90.	10.	454.545	21.32	13.	20.	30.	78.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	05/16/73-09/09/93	12	1.75	1.875	4.	0.5	1.506	1.227	0.5	1.	2.75	4.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/29/48-02/05/86	12	154.	150.583	157.	129.	62.629	7.914	133.8	147.	156.	156.7
70302	SOLIDS, DISSOLVED-TONS PER DAY	06/29/48-03/10/83	12	64.35	66.85	94.4	53.8	121.286	11.013	54.34	59.25	73.625	88.79
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/29/48-03/10/83	12	0.21	0.205	0.21	0.18	0.	0.009	0.186	0.2	0.21	0.21

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Annual Analysis for 1981 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	12	10.25	10.875	22.5	0.5	45.824	6.769	1.55	4.5	17.125	21.15
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/69-09/09/93	12	17.75	10.458	27.5	-12.	148.112	12.17	1.75	5.	23.125	-0.15
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	12	150.5	152.667	170.	127.	164.606	12.83	130.9	146.	165.25	170.
00080p	COLOR (PLATINUM-COBALT UNITS)	05/16/73-09/09/93	12	5.	6.417	15.	0.	16.447	4.055	0.9	4.25	10.	13.5
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	12	175.	176.417	184.	170.	19.72	4.441	170.6	173.	180.5	183.4
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	12	7.65	7.575	7.8	7.2	0.031	0.176	7.26	7.425	7.7	7.77
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	12	7.647	7.539	7.8	7.2	0.033	0.18	7.26	7.425	7.7	7.77
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	12	0.023	0.029	0.063	0.016	0.	0.014	0.017	0.02	0.038	0.056
00403p	PH, LAB, STANDARD UNITS SU	11/20/80-09/09/93	12	7.9	7.983	8.5	7.7	0.052	0.229	7.73	7.825	8.1	8.44
00403p	CONVERTED PH, LAB, STANDARD UNITS	11/20/80-09/09/93	12	7.9	7.937	8.5	7.7	0.055	0.234	7.73	7.825	8.1	8.44
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/80-09/09/93	12	0.013	0.012	0.02	0.003	0.	0.005	0.004	0.008	0.015	0.019
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/25/73-09/09/93	12	1.2	1.112	1.6	0.045	0.261	0.511	0.122	0.9	1.575	1.6
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/25/73-09/09/93	11	0.21	0.236	0.45	0.06	0.011	0.106	0.084	0.18	0.32	0.434
00666p	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/25/73-09/09/93	12	0.18	0.182	0.3	0.06	0.003	0.059	0.084	0.153	0.208	0.285
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/29/48-02/05/86	12	70.5	70.5	74.	68.	3.909	1.977	68.	69.	71.	74.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/29/48-09/09/93	12	23.	22.833	24.	22.	0.515	0.718	22.	22.	23.	24.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/29/48-09/09/93	12	3.2	3.242	3.4	3.1	0.014	0.116	3.1	3.125	3.375	3.4
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/73-09/09/93	12	7.3	7.333	8.	6.6	0.161	0.401	6.69	7.025	7.675	7.94
00931	SODIUM ADSORPTION RATIO	06/29/48-02/05/86	12	0.4	0.392	0.4	0.3	0.001	0.029	0.33	0.4	0.4	0.4
00932	SODIUM, PERCENT	06/29/48-02/05/86	12	17.	17.333	19.	16.	0.606	0.778	16.3	17.	18.	18.7
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/73-09/09/93	12	5.2	5.45	6.9	4.7	0.461	0.679	4.76	4.925	5.9	6.75
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/29/48-09/09/93	12	2.	2.083	3.	1.	0.265	0.515	1.3	2.	2.	3.
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/29/48-09/09/93	12	3.75	3.517	7.	0.5	5.712	2.39	0.56	1.	5.75	6.7
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	06/29/48-09/09/93	12	0.3	0.267	0.3	0.1	0.004	0.065	0.13	0.225	0.3	0.3

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Annual Analysis for 1981 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00955p	SILICA, DISSOLVED (MG/L AS SI02)	06/29/48-09/09/93	12	55.	55.25	59.	51.	4.568	2.137	51.6	54.	57.	58.4
01020p	BORON, DISSOLVED (UG/L AS B)	06/29/48-09/09/93	12	20.	17.5	30.	0.	93.182	9.653	0.	12.5	20.	30.
01046p	IRON, DISSOLVED (UG/L AS FE)	06/29/48-09/09/93	12	28.5	29.75	50.	16.	130.75	11.435	16.9	20.	41.5	47.9
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	05/16/73-09/09/93	12	2.5	3.042	7.	0.5	4.294	2.072	0.65	1.25	4.75	6.7
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/29/48-02/05/86	12	153.	153.083	159.	146.	20.083	4.481	146.6	150.	157.	158.7
70302	SOLIDS, DISSOLVED-TONS PER DAY	06/29/48-03/10/83	12	62.4	63.058	72.5	53.5	27.755	5.268	55.18	59.35	66.525	71.87
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/29/48-03/10/83	12	0.205	0.206	0.22	0.2	0.	0.007	0.2	0.2	0.21	0.217

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Annual Analysis for 1982 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	13	11.	11.115	19.	3.	33.715	5.806	3.4	5.25	16.75	19.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/69-09/09/93	13	13.5	12.615	23.5	-2.	64.965	8.06	2.9	1.75	19.	23.3
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	13	158.	162.692	204.	131.	451.564	21.25	134.6	151.	172.5	203.2
00080p	COLOR (PLATINUM-COBALT UNITS)	05/16/73-09/09/93	12	12.5	18.792	50.	0.	230.703	15.189	0.15	10.	30.	45.5
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	13	184.	183.692	198.	167.	105.564	10.274	167.8	176.5	194.5	197.6
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	13	7.6	7.615	7.9	7.3	0.05	0.223	7.3	7.4	7.85	7.9
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	13	7.6	7.563	7.9	7.3	0.053	0.229	7.3	7.4	7.85	7.9
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	13	0.025	0.027	0.05	0.013	0.	0.014	0.013	0.014	0.04	0.05
00403p	PH, LAB, STANDARD UNITS SU	11/20/80-09/09/93	12	8.15	8.133	8.4	7.9	0.024	0.156	7.93	8.	8.275	8.37
00403p	CONVERTED PH, LAB, STANDARD UNITS	11/20/80-09/09/93	12	8.147	8.109	8.4	7.9	0.025	0.158	7.93	8.	8.275	8.37
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/80-09/09/93	12	0.007	0.008	0.013	0.004	0.	0.003	0.004	0.005	0.01	0.012
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/25/73-09/09/93	13	1.5	1.462	3.2	0.5	0.444	0.667	0.66	1.05	1.7	2.76
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/25/73-09/09/93	10	0.235	0.259	0.46	0.17	0.007	0.084	0.172	0.213	0.28	0.448
00666p	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/25/73-09/09/93	12	0.17	0.169	0.36	0.01	0.007	0.086	0.028	0.123	0.2	0.321
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/29/48-02/05/86	13	74.	73.385	82.	62.	27.256	5.221	64.4	70.5	77.5	80.8
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/29/48-09/09/93	13	24.	23.692	27.	20.	3.397	1.843	20.8	22.5	25.	26.6
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/29/48-09/09/93	13	3.4	3.408	3.9	3.	0.054	0.233	3.04	3.3	3.5	3.82
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/73-09/09/93	13	7.5	7.531	8.9	6.5	0.467	0.684	6.54	7.15	7.7	8.82
00931	SODIUM ADSORPTION RATIO	06/29/48-02/05/86	13	0.4	0.415	0.5	0.4	0.001	0.038	0.4	0.4	0.4	0.5
00932	SODIUM, PERCENT	06/29/48-02/05/86	13	17.	16.846	20.	16.	1.308	1.144	16.	16.	17.	19.2
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/73-09/09/93	13	6.1	6.254	9.7	4.9	1.418	1.191	5.06	5.6	6.6	8.66
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/29/48-09/09/93	13	3.	2.538	3.	2.	0.269	0.519	2.	2.	3.	3.
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/29/48-09/09/93	13	5.	4.846	8.	2.5	3.391	1.841	2.5	2.5	6.	7.6
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	06/29/48-09/09/93	13	0.3	0.277	0.4	0.2	0.004	0.06	0.2	0.2	0.3	0.36
00955p	SILICA, DISSOLVED (MG/L AS SI02)	06/29/48-09/09/93	13	53.	52.692	58.	41.	15.397	3.924	45.	52.	54.5	56.8
01020p	BORON, DISSOLVED (UG/L AS B)	06/29/48-09/09/93	12	20.	20.833	30.	20.	8.333	2.887	20.	20.	20.	27.
01046p	IRON, DISSOLVED (UG/L AS FE)	06/29/48-09/09/93	12	33.5	40.	96.	18.	463.091	21.52	18.9	24.25	50.25	84.3
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	05/16/73-09/09/93	12	3.	3.25	8.	1.	3.977	1.994	1.15	1.625	3.75	7.4
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/29/48-02/05/86	10	162.	161.9	182.	141.	114.767	10.713	142.3	157.75	166.75	181.
70302	SOLIDS, DISSOLVED-TONS PER DAY	06/29/48-03/10/83	10	68.	68.56	77.7	58.4	42.189	6.495	58.57	64.9	75.05	77.69
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/29/48-03/10/83	10	0.22	0.22	0.25	0.19	0.	0.015	0.192	0.218	0.223	0.248

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Annual Analysis for 1983 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	14	8.25	11.536	28.	1.	62.249	7.89	2.	5.875	17.	25.25
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/69-09/09/93	14	12.	13.107	31.	-5.	120.276	10.967	2.5	9.	22.375	28.25
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	14	165.5	181.357	374.	148.	3237.016	56.895	150.	156.25	180.5	281.5
00080p	COLOR (PLATINUM-COBALT UNITS)	05/16/73-09/09/93	12	5.	16.417	100.	0.5	781.083	27.948	0.5	0.5	18.75	79.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	14	199.	201.929	221.	192.	96.533	9.825	192.	193.75	209.5	218.

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Annual Analysis for 1983 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	13	7.6	7.754	8.2	7.4	0.079	0.282	7.4	7.55	8.	8.2
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	13	7.6	7.678	8.2	7.4	0.086	0.293	7.4	7.55	8.	8.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	13	0.025	0.021	0.04	0.006	0.	0.012	0.006	0.01	0.028	0.04
00403p	PH, LAB, STANDARD UNITS SU	11/20/80-09/09/93	14	8.	8.	8.3	7.6	0.042	0.204	7.6	7.9	8.125	8.25
00403p	CONVERTED PH, LAB, STANDARD UNITS	11/20/80-09/09/93	14	8.	7.951	8.3	7.6	0.044	0.21	7.6	7.9	8.125	8.25
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/80-09/09/93	14	0.01	0.011	0.025	0.005	0.	0.006	0.006	0.008	0.013	0.025
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/25/73-09/09/93	14	1.45	1.436	1.8	0.6	0.095	0.308	0.9	1.3	1.625	1.8
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/25/73-09/09/93	12	0.22	0.262	0.5	0.12	0.014	0.118	0.135	0.185	0.29	0.494
00666p	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/25/73-09/09/93	12	0.175	0.198	0.39	0.13	0.006	0.08	0.133	0.15	0.2	0.372
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/29/48-02/05/86	4	76.	76.	78.	74.	5.333	2.309	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/29/48-09/09/93	14	24.	24.214	27.	23.	1.258	1.122	23.	23.	25.	26.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/29/48-09/09/93	14	3.55	3.607	4.3	3.3	0.064	0.253	3.35	3.4	3.725	4.05
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/73-09/09/93	14	7.75	8.214	10.	7.1	0.972	0.986	7.25	7.575	8.975	9.95
00931	SODIUM ADSORPTION RATIO	06/29/48-02/05/86	4	0.45	0.45	0.5	0.4	0.003	0.058	**	**	**	**
00932	SODIUM, PERCENT	06/29/48-02/05/86	4	17.5	17.75	20.	16.	2.917	1.708	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/73-09/09/93	14	5.65	5.914	8.1	5.	0.924	0.961	5.05	5.2	6.075	7.8
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/29/48-09/09/93	14	3.	2.857	4.	2.	0.44	0.663	2.	2.	3.	4.
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/29/48-09/09/93	14	6.	6.857	12.	5.	3.978	1.994	5.	5.	8.	10.5
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	06/29/48-09/09/93	14	0.3	0.286	0.3	0.2	0.001	0.036	0.2	0.3	0.3	0.3
00955p	SILICA, DISSOLVED (MG/L AS SI02)	06/29/48-09/09/93	14	53.	51.214	55.	38.	18.797	4.336	43.5	49.	54.	54.5
01020p	BORON, DISSOLVED (UG/L AS B)	06/29/48-09/09/93	12	20.	21.667	30.	20.	15.152	3.892	20.	20.	20.	30.
01046p	IRON, DISSOLVED (UG/L AS FE)	06/29/48-09/09/93	12	32.	42.583	110.	15.	842.811	29.031	15.9	18.75	58.25	100.4
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	05/16/73-09/09/93	12	2.5	3.083	7.	1.	3.174	1.782	1.3	2.	3.75	6.7
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/29/48-02/05/86	4	164.	164.	169.	159.	27.333	5.228	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	06/29/48-03/10/83	3	72.1	71.4	76.4	65.7	28.99	5.384	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/29/48-03/10/83	3	0.22	0.223	0.23	0.22	0.	0.006	**	**	**	**

** - 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 NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	13	11.5	11.885	23.5	0.5	57.756	7.6	1.9	5.25	19.	23.3
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/69-09/09/93	13	18.5	12.192	27.	-12.	136.522	11.684	2.9	2.5	24.	3.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	13	176.	226.462	588.	156.	14140.269	118.913	158.	162.	261.5	471.6
00080p	COLOR (PLATINUM-COBALT UNITS)	05/16/73-09/09/93	11	25.	53.545	350.	5.	9985.273	99.926	6.	10.	35.	294.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	13	196.	202.846	252.	181.	438.808	20.948	182.6	189.	208.5	246.8
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	13	8.	7.985	8.5	7.6	0.04	0.199	7.72	7.9	8.05	8.34
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	13	8.	7.946	8.5	7.6	0.041	0.203	7.72	7.9	8.05	8.34
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	13	0.01	0.011	0.025	0.003	0.	0.005	0.005	0.009	0.013	0.02
00403p	PH, LAB, STANDARD UNITS SU	11/20/80-09/09/93	13	8.1	8.046	8.5	7.6	0.088	0.296	7.64	7.75	8.25	8.5
00403p	CONVERTED PH, LAB, STANDARD UNITS	11/20/80-09/09/93	13	8.1	7.958	8.5	7.6	0.096	0.31	7.64	7.75	8.25	8.5
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/80-09/09/93	13	0.008	0.011	0.025	0.003	0.	0.007	0.003	0.006	0.018	0.023
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/25/73-09/09/93	13	1.5	1.438	1.9	0.5	0.161	0.401	0.7	1.15	1.75	1.86
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/25/73-09/09/93	11	0.21	0.434	2.1	0.14	0.33	0.575	0.15	0.19	0.33	1.824
00666p	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/25/73-09/09/93	12	0.165	0.199	0.54	0.14	0.012	0.112	0.14	0.153	0.17	0.456
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/29/48-09/09/93	12	24.	24.5	28.	22.	1.909	1.382	22.6	24.	25.	27.1
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/29/48-09/09/93	12	3.65	3.642	4.5	3.2	0.119	0.345	3.23	3.35	3.775	4.32
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/73-09/09/93	12	7.8	8.883	15.	6.3	8.627	2.937	6.51	7.15	8.65	15.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/73-09/09/93	13	5.9	6.215	9.9	5.1	1.658	1.288	5.14	5.4	6.35	8.98
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/29/48-09/09/93	13	3.	3.077	6.	2.	1.077	1.038	2.	2.5	3.	5.2
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/29/48-09/09/93	13	7.	7.615	13.	5.	6.756	2.599	5.4	6.	9.	12.6
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	06/29/48-09/09/93	13	0.3	0.308	0.4	0.2	0.002	0.049	0.24	0.3	0.3	0.4
00955p	SILICA, DISSOLVED (MG/L AS SI02)	06/29/48-09/09/93	12	51.5	49.583	55.	33.	39.902	6.317	35.7	48.5	53.75	54.7
01020p	BORON, DISSOLVED (UG/L AS B)	06/29/48-09/09/93	12	20.	20.833	30.	10.	26.515	5.149	13.	20.	20.	30.
01046p	IRON, DISSOLVED (UG/L AS FE)	06/29/48-09/09/93	11	41.	73.364	420.	16.	13725.655	117.157	16.4	19.	65.	352.4
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	05/16/73-09/09/93	11	3.	5.273	29.	2.	62.618	7.913	2.	2.	4.	24.

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Annual Analysis for 1985 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	12	12.25	10.833	18.	2.5	36.561	6.047	2.5	4.125	16.75	18.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/69-09/09/93	12	17.5	12.375	24.	-9.	133.915	11.572	0.9	-4.875	22.125	23.85
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	12	164.	164.583	180.	146.	150.811	12.28	146.6	153.25	176.75	180.
00080p	COLOR (PLATINUM-COBALT UNITS)	05/16/73-09/09/93	12	7.5	14.083	45.	4.	172.629	13.139	4.3	5.	23.75	40.5
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	11	193.	193.364	203.	188.	16.255	4.032	188.2	191.	195.	201.6
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	12	7.7	7.775	8.3	7.5	0.058	0.242	7.5	7.6	7.9	8.24
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	12	7.7	7.723	8.3	7.5	0.061	0.248	7.5	7.6	7.9	8.24
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	12	0.02	0.019	0.032	0.005	0.	0.009	0.006	0.013	0.025	0.032
00403p	PH, LAB, STANDARD UNITS SU	11/20/80-09/09/93	12	8.2	8.267	8.6	8.	0.037	0.192	8.03	8.1	8.475	8.57
00403p	CONVERTED PH, LAB, STANDARD UNITS	11/20/80-09/09/93	12	8.2	8.23	8.6	8.	0.038	0.196	8.03	8.1	8.475	8.57
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/80-09/09/93	12	0.006	0.006	0.01	0.003	0.	0.002	0.003	0.003	0.008	0.009
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/25/73-09/09/93	12	1.55	1.617	2.1	1.2	0.096	0.31	1.23	1.4	1.875	2.1
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/25/73-09/09/93	10	0.205	0.201	0.31	0.04	0.005	0.073	0.053	0.17	0.243	0.307
00666p	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/25/73-09/09/93	11	0.15	0.165	0.24	0.14	0.001	0.031	0.14	0.14	0.19	0.23
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/29/48-02/05/86	2	75.5	75.5	77.	74.	4.5	2.121	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/29/48-09/09/93	12	24.	24.333	26.	23.	0.788	0.888	23.	24.	25.	25.7
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/29/48-09/09/93	12	3.55	3.55	4.	3.3	0.034	0.183	3.33	3.4	3.6	3.91
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/73-09/09/93	12	7.6	7.642	8.4	7.1	0.117	0.342	7.16	7.425	7.85	8.28
00931	SODIUM ADSORPTION RATIO	06/29/48-02/05/86	2	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	06/29/48-02/05/86	2	17.	17.	17.	17.	0.	0.	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/73-09/09/93	12	5.55	5.575	6.2	5.	0.126	0.355	5.06	5.25	5.875	6.11
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/29/48-09/09/93	12	2.	2.25	3.	2.	0.205	0.452	2.	2.	2.75	3.
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/29/48-09/09/93	12	6.5	6.833	10.	5.	1.97	1.403	5.3	6.	7.	9.7
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	06/29/48-09/09/93	12	0.25	0.25	0.3	0.2	0.003	0.052	0.2	0.2	0.3	0.3
00955p	SILICA, DISSOLVED (MG/L AS SI02)	06/29/48-09/09/93	12	54.	54.25	56.	51.	2.023	1.422	51.6	54.	55.75	56.
01020p	BORON, DISSOLVED (UG/L AS B)	06/29/48-09/09/93	12	20.	21.667	30.	20.	15.152	3.892	20.	20.	20.	30.
01046p	IRON, DISSOLVED (UG/L AS FE)	06/29/48-09/09/93	12	21.	21.5	37.	5.	105.364	10.265	5.6	16.25	31.5	36.7
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	05/16/73-09/09/93	12	3.	2.708	5.	0.5	2.521	1.588	0.5	0.875	4.	4.7
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/29/48-02/05/86	2	161.	161.	165.	157.	32.	5.657	**	**	**	**

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Annual Analysis for 1986 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	12	7.75	10.083	20.	3.	41.174	6.417	3.15	4.5	16.75	19.4
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/69-09/09/93	12	5.5	11.375	25.	-3.	102.051	10.102	0.65	4.125	21.875	24.25
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	12	173.5	214.25	520.	156.	10389.114	101.927	156.3	161.75	233.	440.2
00080p	COLOR (PLATINUM-COBALT UNITS)	05/16/73-09/09/93	12	9.	39.667	240.	4.	4664.97	68.301	4.	5.	58.75	192.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	12	193.	195.75	256.	170.	421.659	20.534	174.2	186.5	196.5	239.2
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	12	7.6	7.636	7.9	7.5	0.022	0.148	7.5	7.5	7.76	7.897
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	12	7.6	7.615	7.9	7.5	0.022	0.149	7.5	7.5	7.76	7.897
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	12	0.025	0.024	0.032	0.013	0.	0.007	0.013	0.018	0.032	0.032
00403p	PH, LAB, STANDARD UNITS SU	11/20/80-09/09/93	11	8.	7.909	8.3	7.1	0.119	0.345	7.2	7.6	8.1	8.28
00403p	CONVERTED PH, LAB, STANDARD UNITS	11/20/80-09/09/93	11	8.	7.747	8.3	7.1	0.148	0.384	7.2	7.6	8.1	8.28
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/80-09/09/93	11	0.01	0.018	0.079	0.005	0.	0.022	0.005	0.008	0.025	0.069
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/25/73-09/09/93	12	1.6	1.55	2.1	1.	0.161	0.401	1.	1.15	1.95	2.07
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/25/73-09/09/93	9	0.23	0.667	2.1	0.2	0.628	0.792	0.2	0.205	1.275	2.1
00666p	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/25/73-09/09/93	9	0.17	0.338	0.91	0.15	0.088	0.296	0.15	0.155	0.565	0.91
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/29/48-02/05/86	2	72.	72.	74.	70.	8.	2.828	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/29/48-09/09/93	11	24.	24.	29.	22.	3.8	1.949	22.	23.	25.	28.2
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/29/48-09/09/93	12	3.6	3.567	4.5	2.8	0.146	0.382	2.95	3.425	3.675	4.26
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/73-09/09/93	12	7.75	8.075	11.	6.9	1.406	1.186	6.93	7.35	8.45	10.61
00931	SODIUM ADSORPTION RATIO	06/29/48-02/05/86	2	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**
00932	SODIUM, PERCENT	06/29/48-02/05/86	2	19.	19.	21.	17.	8.	2.828	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/73-09/09/93	12	5.75	7.15	14.	5.1	8.988	2.998	5.13	5.3	8.675	13.4
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/29/48-09/09/93	12	3.	3.667	9.	2.	5.515	2.348	2.	2.	5.25	8.4

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Annual Analysis for 1986 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/29/48-09/09/93	12	7.	8.333	17.	5.	11.697	3.42	5.3	6.	10.75	15.2
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	06/29/48-09/09/93	12	0.3	0.283	0.3	0.2	0.002	0.039	0.2	0.3	0.3	0.3
00955p	SILICA, DISSOLVED (MG/L AS SI02)	06/29/48-09/09/93	12	53.5	49.917	56.	27.	69.356	8.328	31.8	47.	55.	56.
01020p	BORON, DISSOLVED (UG/L AS B)	06/29/48-09/09/93	12	20.	28.333	60.	20.	233.333	15.275	20.	20.	30.	60.
01046p	IRON, DISSOLVED (UG/L AS FE)	06/29/48-09/09/93	12	30.5	69.417	230.	16.	5919.902	76.941	16.9	20.5	112.25	224.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	05/16/73-09/09/93	12	4.	4.125	12.	0.5	7.369	2.715	1.25	3.	4.	9.9
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/29/48-02/05/86	2	163.5	163.5	165.	162.	4.5	2.121	**	**	**	**

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Annual Analysis for 1987 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	12	11.5	12.042	23.	3.5	44.93	6.703	3.8	5.625	18.5	22.55
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/69-09/09/93	12	15.25	14.792	26.5	-3.	98.748	9.937	3.	0.625	25.5	26.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	12	166.5	207.667	538.	149.	11435.333	106.936	150.5	159.25	212.25	443.5
00080p	COLOR (PLATINUM-COBALT UNITS)	05/16/73-09/09/93	12	5.5	14.583	65.	1.	407.72	20.192	1.6	3.	17.25	59.3
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	12	194.5	198.583	232.	186.	205.174	14.324	186.3	189.25	199.5	229.3
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	12	7.83	7.954	8.74	7.48	0.147	0.383	7.519	7.645	8.265	8.641
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	12	7.827	7.831	8.74	7.48	0.163	0.404	7.519	7.645	8.265	8.641
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	12	0.015	0.015	0.033	0.002	0.	0.01	0.002	0.005	0.023	0.031
00403p	PH, LAB, STANDARD UNITS SU	11/20/80-09/09/93	12	8.2	8.2	8.5	8.	0.024	0.154	8.	8.1	8.3	8.47
00403p	CONVERTED PH, LAB, STANDARD UNITS	11/20/80-09/09/93	12	8.2	8.176	8.5	8.	0.024	0.156	8.	8.1	8.3	8.47
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/80-09/09/93	12	0.006	0.007	0.01	0.003	0.	0.002	0.003	0.005	0.008	0.01
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/25/73-09/09/93	12	1.5	1.583	2.1	0.6	0.194	0.441	0.81	1.3	1.975	2.1
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/25/73-09/09/93	10	0.195	0.221	0.41	0.03	0.013	0.113	0.043	0.168	0.28	0.409
00666p	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/25/73-09/09/93	12	0.14	0.128	0.17	0.02	0.002	0.048	0.026	0.125	0.158	0.167
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/29/48-09/09/93	12	24.	24.083	27.	22.	1.72	1.311	22.3	23.	25.	26.4
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/29/48-09/09/93	12	3.6	3.667	4.2	3.3	0.07	0.264	3.36	3.5	3.825	4.17
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/73-09/09/93	12	7.8	8.65	14.	7.1	4.472	2.115	7.16	7.55	8.55	13.4
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/73-09/09/93	12	5.65	5.933	8.6	5.1	0.853	0.924	5.13	5.375	6.075	7.94
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/29/48-09/09/93	12	2.5	2.667	4.	2.	0.606	0.778	2.	2.	3.	4.
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/29/48-09/09/93	12	6.	6.875	11.	2.5	5.369	2.317	3.55	6.	7.75	11.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	06/29/48-09/09/93	12	0.3	0.283	0.3	0.2	0.002	0.039	0.2	0.3	0.3	0.3
00955p	SILICA, DISSOLVED (MG/L AS SI02)	06/29/48-09/09/93	12	54.	51.417	55.	31.	46.447	6.815	35.8	51.5	54.75	55.
01020p	BORON, DISSOLVED (UG/L AS B)	06/29/48-09/09/93	12	20.	22.5	30.	10.	38.636	6.216	13.	20.	30.	30.
01046p	IRON, DISSOLVED (UG/L AS FE)	06/29/48-09/09/93	12	17.5	30.833	110.	7.	1102.515	33.204	7.6	13.25	32.5	103.7
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	05/16/73-09/09/93	12	2.	2.667	6.	0.5	3.47	1.863	0.5	1.25	3.75	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

Annual Analysis for 1988 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	12	14.75	11.375	22.5	0.5	66.778	8.172	0.5	2.5	18.125	21.6
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/69-09/09/93	12	25.75	12.125	31.5	-17.5	297.233	17.24	1.8	0.375	30.5	-15.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	12	174.	189.833	324.	70.	4275.242	65.385	96.7	167.	200.	315.9
00080p	COLOR (PLATINUM-COBALT UNITS)	05/16/73-09/09/93	12	4.	23.417	120.	2.	1439.356	37.939	2.	2.	44.	104.7
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	11	194.	197.091	226.	181.	220.091	14.835	181.8	187.	199.	225.6
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	12	8.175	8.202	8.41	8.	0.02	0.14	8.024	8.085	8.355	8.401
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	12	8.172	8.182	8.41	8.	0.02	0.142	8.024	8.085	8.355	8.401
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	12	0.007	0.007	0.01	0.004	0.	0.002	0.004	0.004	0.008	0.009
00403p	PH, LAB, STANDARD UNITS SU	11/20/80-09/09/93	12	8.1	8.092	8.3	7.7	0.023	0.151	7.79	8.025	8.2	8.27
00403p	CONVERTED PH, LAB, STANDARD UNITS	11/20/80-09/09/93	12	8.1	8.064	8.3	7.7	0.023	0.153	7.79	8.025	8.2	8.27
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/80-09/09/93	12	0.008	0.009	0.02	0.005	0.	0.004	0.005	0.006	0.009	0.017

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Annual Analysis for 1988 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/25/73-09/09/93	12	1.55	1.483	2.2	0.3	0.407	0.638	0.36	1.	2.075	2.17
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/25/73-09/09/93	7	0.25	0.243	0.34	0.19	0.003	0.051	**	**	**	**
00666p	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/25/73-09/09/93	9	0.16	0.21	0.63	0.04	0.027	0.165	0.04	0.15	0.21	0.63
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/29/48-09/09/93	12	24.	24.167	27.	21.	2.333	1.528	21.6	23.25	25.	26.7
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/29/48-09/09/93	12	3.7	3.742	4.2	3.4	0.057	0.239	3.43	3.6	3.9	4.17
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/73-09/09/93	12	7.95	8.933	15.	7.4	5.406	2.325	7.46	7.625	9.55	14.1
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/73-09/09/93	12	5.8	5.917	7.1	5.2	0.307	0.554	5.26	5.425	6.35	6.92
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/29/48-09/09/93	12	2.5	2.75	5.	2.	0.932	0.965	2.	2.	3.	4.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/29/48-09/09/93	12	6.	7.417	13.	5.	6.265	2.503	5.3	6.	9.25	12.4
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	06/29/48-09/09/93	12	0.3	0.275	0.4	0.2	0.006	0.075	0.2	0.2	0.3	0.4
00955p	SILICA, DISSOLVED (MG/L AS SI02)	06/29/48-09/09/93	12	52.5	49.583	57.	27.	69.356	8.328	31.2	47.	54.	56.4
01020p	BORON, DISSOLVED (UG/L AS B)	06/29/48-09/09/93	12	20.	20.	20.	20.	0.	0.	20.	20.	20.	20.
01046p	IRON, DISSOLVED (UG/L AS FE)	06/29/48-09/09/93	12	22.	43.917	180.	6.	2582.083	50.814	7.5	16.25	62.25	156.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	05/16/73-09/09/93	12	2.	2.792	6.	0.5	2.157	1.469	0.95	2.	4.	5.4

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Annual Analysis for 1989 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	12	13.25	12.625	23.	1.	38.142	6.176	2.65	8.125	17.5	21.65
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/69-09/09/93	12	20.75	15.917	34.	-16.	210.856	14.521	3.15	7.625	30.125	-1.
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	12	159.5	161.	184.	142.	157.455	12.548	143.8	150.75	173.	181.3
00080p	COLOR (PLATINUM-COBALT UNITS)	05/16/73-09/09/93	12	7.5	9.833	30.	2.	79.242	8.902	2.	2.	16.5	26.4
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	11	192.	190.364	202.	179.	65.855	8.115	179.2	181.	196.	201.6
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	12	8.535	8.533	8.85	8.22	0.033	0.181	8.256	8.403	8.695	8.817
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	12	8.534	8.499	8.85	8.22	0.034	0.185	8.256	8.403	8.695	8.817
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	12	0.003	0.003	0.006	0.001	0.	0.001	0.002	0.002	0.004	0.006
00403p	PH, LAB, STANDARD UNITS SU	11/20/80-09/09/93	12	8.1	8.15	8.3	8.	0.008	0.09	8.03	8.1	8.2	8.3
00403p	CONVERTED PH, LAB, STANDARD UNITS	11/20/80-09/09/93	12	8.1	8.142	8.3	8.	0.008	0.091	8.03	8.1	8.2	8.3
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/80-09/09/93	12	0.008	0.007	0.01	0.005	0.	0.001	0.005	0.006	0.008	0.009
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/25/73-09/09/93	12	1.65	1.675	2.3	1.1	0.175	0.418	1.13	1.25	2.05	2.3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/25/73-09/09/93	10	0.175	0.174	0.22	0.06	0.003	0.051	0.068	0.148	0.22	0.22
00666p	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/25/73-09/09/93	12	0.14	0.14	0.2	0.06	0.002	0.039	0.072	0.12	0.168	0.197
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/29/48-09/09/93	12	24.	24.	26.	23.	0.727	0.853	23.	23.25	24.	25.7
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/29/48-09/09/93	12	3.6	3.583	3.9	3.3	0.032	0.18	3.33	3.425	3.75	3.87
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/73-09/09/93	12	7.9	7.908	9.3	7.2	0.343	0.585	7.26	7.4	8.25	9.03
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/73-09/09/93	12	5.5	5.433	6.	4.	0.29	0.538	4.33	5.225	5.775	6.
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/29/48-09/09/93	12	2.	2.333	3.	2.	0.242	0.492	2.	2.	3.	3.
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/29/48-09/09/93	12	5.	5.083	8.	4.	1.356	1.165	4.	4.	5.75	7.4
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	06/29/48-09/09/93	12	0.25	0.25	0.3	0.2	0.003	0.052	0.2	0.2	0.3	0.3
00955p	SILICA, DISSOLVED (MG/L AS SI02)	06/29/48-09/09/93	12	54.	53.833	56.	51.	2.697	1.642	51.	52.5	55.	55.7
01020p	BORON, DISSOLVED (UG/L AS B)	06/29/48-09/09/93	12	20.	22.917	40.	5.	74.811	8.649	9.5	20.	30.	37.
01046p	IRON, DISSOLVED (UG/L AS FE)	06/29/48-09/09/93	12	12.	14.5	37.	7.	65.364	8.085	7.6	9.25	16.5	32.2
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	05/16/73-09/09/93	12	2.	2.417	4.	1.	0.629	0.793	1.3	2.	3.	3.7

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Annual Analysis for 1990 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	12	13.5	13.542	23.	3.	54.93	7.411	3.45	6.75	21.25	22.85
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/69-09/09/93	12	16.25	16.125	35.	-9.	152.006	12.329	5.75	4.5	27.	33.65
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	12	160.5	173.667	251.	143.	1064.424	32.626	144.5	150.25	183.75	242.3
00080p	COLOR (PLATINUM-COBALT UNITS)	05/16/73-09/09/93	12	10.	14.708	53.	0.5	259.475	16.108	0.65	2.75	24.75	47.6

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Annual Analysis for 1990 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	12	197.	197.583	216.	182.	64.447	8.028	185.	193.25	201.5	212.1
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	12	8.355	8.337	8.68	7.87	0.045	0.212	7.933	8.248	8.485	8.632
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	12	8.355	8.284	8.68	7.87	0.048	0.219	7.933	8.247	8.485	8.632
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	12	0.004	0.005	0.013	0.002	0.	0.003	0.002	0.003	0.006	0.012
00403p	PH, LAB, STANDARD UNITS SU	11/20/80-09/09/93	12	8.1	8.1	8.5	7.8	0.035	0.186	7.83	8.	8.2	8.44
00403p	CONVERTED PH, LAB, STANDARD UNITS	11/20/80-09/09/93	12	8.1	8.066	8.5	7.8	0.036	0.189	7.83	8.	8.2	8.44
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/80-09/09/93	12	0.008	0.009	0.016	0.003	0.	0.003	0.004	0.006	0.01	0.015
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/25/73-09/09/93	11	1.6	1.673	2.3	1.1	0.19	0.436	1.12	1.3	2.	2.28
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/25/73-09/09/93	12	0.205	0.217	0.43	0.06	0.01	0.099	0.084	0.143	0.268	0.4
00666p	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/25/73-09/09/93	10	0.145	0.156	0.23	0.13	0.001	0.032	0.13	0.13	0.175	0.226
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/29/48-09/09/93	12	24.	24.167	26.	23.	1.061	1.03	23.	23.25	24.75	26.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/29/48-09/09/93	12	3.5	3.55	3.9	3.2	0.037	0.193	3.26	3.425	3.7	3.87
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/73-09/09/93	12	7.55	7.658	9.6	6.9	0.452	0.672	6.99	7.275	7.675	9.12
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/73-09/09/93	12	5.85	5.983	7.7	5.	0.465	0.682	5.15	5.6	6.3	7.37
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/29/48-09/09/93	12	3.	2.917	6.	1.	1.538	1.24	1.3	2.	3.	5.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/29/48-09/09/93	12	4.	4.583	6.	4.	0.629	0.793	4.	4.	5.	6.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	06/29/48-09/09/93	12	0.2	0.179	0.3	0.05	0.007	0.086	0.05	0.088	0.2	0.3
00955p	SILICA, DISSOLVED (MG/L AS SI02)	06/29/48-09/09/93	12	54.5	53.417	57.	48.	9.174	3.029	48.	51.5	55.	57.
01020p	BORON, DISSOLVED (UG/L AS B)	06/29/48-09/09/93	12	30.	26.667	40.	20.	42.424	6.513	20.	20.	30.	37.
01046p	IRON, DISSOLVED (UG/L AS FE)	06/29/48-09/09/93	12	11.5	20.667	78.	3.	541.697	23.274	3.9	7.	21.	72.3
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	05/16/73-09/09/93	12	3.	3.458	8.	0.5	5.066	2.251	0.65	2.	4.75	7.7

** - 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 NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	12	10.75	12.625	23.	2.5	59.051	7.684	2.65	5.625	20.375	22.4
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/69-09/09/93	12	17.75	15.042	33.	-9.	223.703	14.957	2.3	-7.5	29.	32.25
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	12	166.	170.167	200.	144.	291.061	17.06	147.3	158.	186.25	197.9
00080p	COLOR (PLATINUM-COBALT UNITS)	05/16/73-09/09/93	12	5.5	11.25	55.	2.	221.295	14.876	2.	4.25	12.5	45.1
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	12	199.5	200.333	210.	195.	17.879	4.228	195.	197.5	202.5	208.5
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	12	8.375	8.46	8.85	8.24	0.03	0.172	8.27	8.36	8.57	8.799
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	12	8.375	8.433	8.85	8.24	0.031	0.175	8.27	8.36	8.57	8.799
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	12	0.004	0.004	0.006	0.001	0.	0.001	0.002	0.003	0.004	0.005
00403p	PH, LAB, STANDARD UNITS SU	11/20/80-09/09/93	12	8.1	8.125	8.7	7.8	0.069	0.263	7.8	7.9	8.275	8.61
00403p	CONVERTED PH, LAB, STANDARD UNITS	11/20/80-09/09/93	12	8.1	8.061	8.7	7.8	0.074	0.272	7.8	7.9	8.275	8.61
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/80-09/09/93	12	0.008	0.009	0.016	0.002	0.	0.005	0.003	0.005	0.013	0.016
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/25/73-09/09/93	12	1.75	1.7	2.2	0.7	0.171	0.413	0.88	1.525	2.05	2.17
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/25/73-09/09/93	12	0.21	0.211	0.44	0.12	0.007	0.082	0.129	0.153	0.23	0.38
00666p	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/25/73-09/09/93	12	0.145	0.148	0.21	0.09	0.001	0.031	0.099	0.13	0.168	0.201
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/29/48-09/09/93	12	25.	25.417	27.	24.	0.629	0.793	24.3	25.	26.	26.7
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/29/48-09/09/93	12	3.6	3.617	3.9	3.4	0.025	0.159	3.43	3.5	3.7	3.9
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/73-09/09/93	12	7.85	7.883	8.5	7.4	0.096	0.31	7.46	7.625	8.075	8.44
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/73-09/09/93	12	5.75	5.75	6.2	5.3	0.105	0.323	5.33	5.425	6.05	6.2
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/29/48-09/09/93	12	3.	3.	4.	1.	0.909	0.953	1.3	2.25	4.	4.
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/29/48-09/09/93	12	4.5	4.667	7.	4.	0.788	0.888	4.	4.	5.	6.4
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	06/29/48-09/09/93	12	0.25	0.258	0.4	0.2	0.004	0.067	0.2	0.2	0.3	0.37
00955p	SILICA, DISSOLVED (MG/L AS SI02)	06/29/48-09/09/93	12	53.	52.5	55.	47.	5.	2.236	47.9	52.	54.	55.
01020p	BORON, DISSOLVED (UG/L AS B)	06/29/48-09/09/93	12	20.	23.333	30.	10.	42.424	6.513	13.	20.	30.	30.
01046p	IRON, DISSOLVED (UG/L AS FE)	06/29/48-09/09/93	12	13.5	14.667	24.	8.	34.788	5.898	8.	9.25	20.75	23.4
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	05/16/73-09/09/93	12	2.5	2.583	4.	1.	1.174	1.084	1.	2.	3.75	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 1992 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	8	8.75	9.438	17.5	4.5	17.531	4.187	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/69-09/09/93	8	11.5	10.188	27.	-2.	96.424	9.82	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	8	168.	172.125	199.	156.	194.125	13.933	**	**	**	**
00080p	COLOR (PLATINUM-COBALT UNITS)	05/16/73-09/09/93	7	10.	8.071	13.	0.5	21.369	4.623	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	8	200.5	200.125	214.	191.	54.696	7.396	**	**	**	**
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	8	8.44	8.473	8.9	8.2	0.045	0.212	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	8	8.438	8.433	8.9	8.2	0.047	0.216	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	8	0.004	0.004	0.006	0.001	0.	0.002	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	11/20/80-09/09/93	7	8.2	8.229	8.6	7.9	0.046	0.214	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	11/20/80-09/09/93	7	8.2	8.185	8.6	7.9	0.048	0.219	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/80-09/09/93	7	0.006	0.007	0.013	0.003	0.	0.003	**	**	**	**
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/25/73-09/09/93	7	2.	2.	2.4	1.5	0.08	0.283	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/25/73-09/09/93	8	0.175	0.18	0.25	0.13	0.001	0.037	**	**	**	**
00666p	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/25/73-09/09/93	7	0.13	0.151	0.23	0.12	0.002	0.041	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/29/48-09/09/93	7	26.	25.571	27.	24.	0.952	0.976	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/29/48-09/09/93	7	3.6	3.586	3.7	3.5	0.005	0.069	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/73-09/09/93	7	7.5	7.671	8.2	7.2	0.152	0.39	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/73-09/09/93	7	5.4	5.686	7.9	4.5	1.165	1.079	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/29/48-09/09/93	7	4.	3.286	4.	2.	0.905	0.951	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/29/48-09/09/93	7	5.	4.714	5.	4.	0.238	0.488	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	06/29/48-09/09/93	7	0.3	0.271	0.3	0.2	0.002	0.049	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	06/29/48-09/09/93	7	55.	54.857	57.	53.	1.81	1.345	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	06/29/48-09/09/93	7	30.	25.714	30.	20.	28.571	5.345	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	06/29/48-09/09/93	7	8.	9.286	16.	3.	20.238	4.499	**	**	**	**
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	05/16/73-09/09/93	7	2.	2.	3.	0.5	1.25	1.118	**	**	**	**

** - 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 box-and-whisker plot

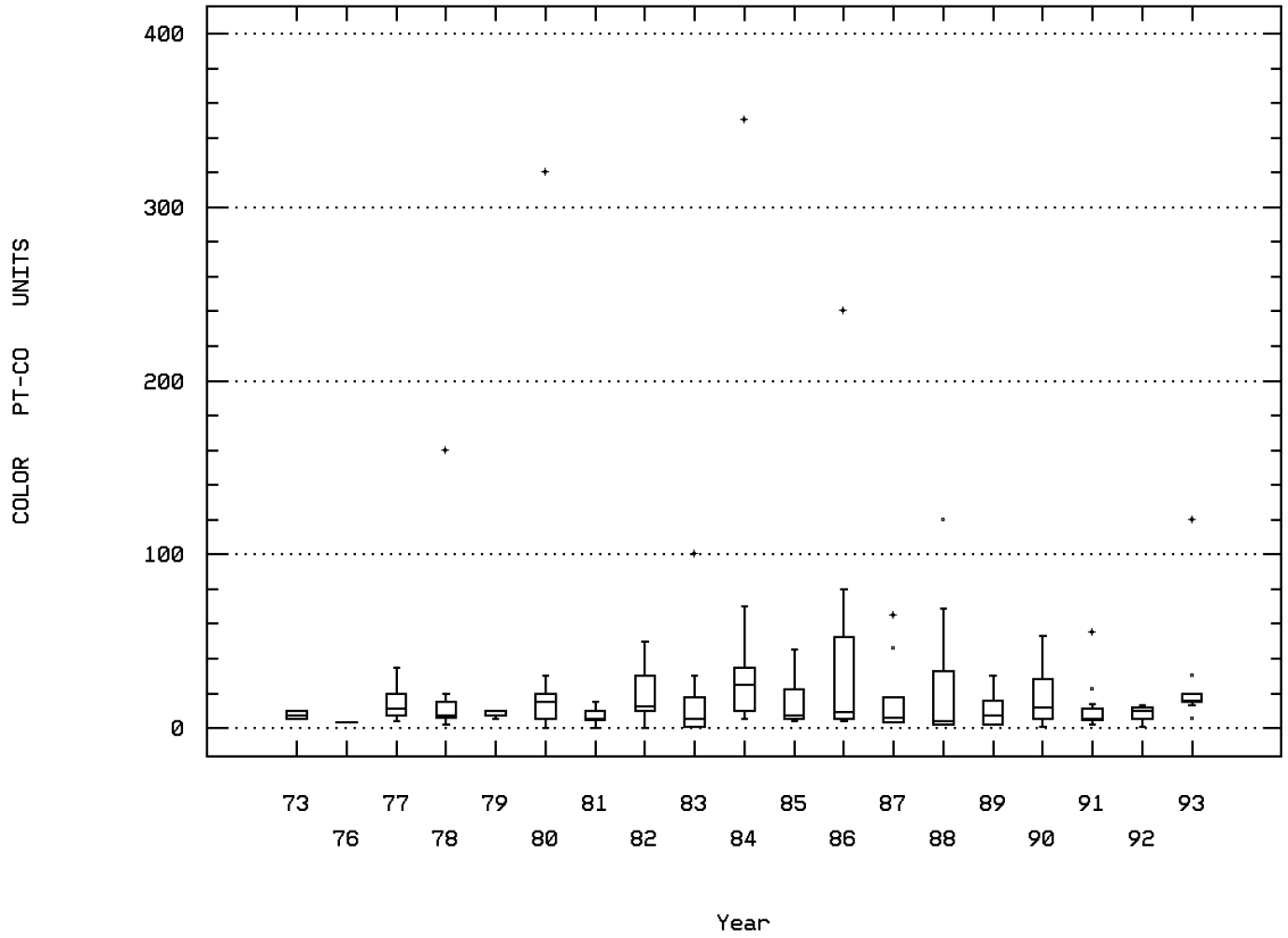
Annual Analysis for 1993 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	9	16.5	14.111	22.	1.5	52.299	7.232	1.5	8.	20.5	22.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/69-09/09/93	9	19.5	16.667	30.	-9.5	140.438	11.851	9.5	2.	25.5	30.
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	9	185.	247.444	630.	157.	24503.778	156.537	157.	163.5	281.5	630.
00080p	COLOR (PLATINUM-COBALT UNITS)	05/16/73-09/09/93	9	16.	27.889	120.	5.	1235.861	35.155	5.	14.	25.	120.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	8	204.	208.75	240.	196.	218.786	14.791	**	**	**	**
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	9	8.3	8.333	8.5	8.1	0.018	0.132	8.1	8.25	8.45	8.5
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	9	8.3	8.315	8.5	8.1	0.018	0.134	8.1	8.25	8.45	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	9	0.005	0.005	0.008	0.003	0.	0.002	0.003	0.004	0.006	0.008
00403p	PH, LAB, STANDARD UNITS SU	11/20/80-09/09/93	9	8.	8.033	8.3	7.8	0.028	0.166	7.8	7.9	8.15	8.3
00403p	CONVERTED PH, LAB, STANDARD UNITS	11/20/80-09/09/93	9	8.	8.005	8.3	7.8	0.028	0.168	7.8	7.9	8.15	8.3
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/80-09/09/93	9	0.01	0.01	0.016	0.005	0.	0.004	0.005	0.007	0.013	0.016
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/25/73-09/09/93	9	1.6	1.558	2.3	0.025	0.538	0.734	0.025	1.2	2.25	2.3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/25/73-09/09/93	9	0.18	0.192	0.24	0.15	0.001	0.032	0.15	0.165	0.225	0.24
00666p	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/25/73-09/09/93	9	0.16	0.151	0.18	0.1	0.001	0.027	0.1	0.13	0.17	0.18
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/29/48-09/09/93	9	25.	26.444	32.	25.	5.528	2.351	25.	25.	27.5	32.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/29/48-09/09/93	9	3.6	3.767	4.4	3.4	0.143	0.377	3.4	3.5	4.1	4.4
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/16/73-09/09/93	9	8.1	8.767	14.	7.4	4.175	2.043	7.4	7.65	9.	14.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/73-09/09/93	9	5.8	5.689	6.5	4.9	0.291	0.54	4.9	5.2	6.1	6.5
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/29/48-09/09/93	9	3.	3.	5.	2.	1.	1.	2.	2.	3.5	5.
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/29/48-09/09/93	9	4.	4.556	6.	4.	0.528	0.726	4.	4.	5.	6.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	06/29/48-09/09/93	9	0.3	0.278	0.4	0.2	0.007	0.083	0.2	0.2	0.35	0.4
00955p	SILICA, DISSOLVED (MG/L AS SI02)	06/29/48-09/09/93	9	52.	52.778	58.	43.	22.694	4.764	43.	50.5	57.	58.
01020p	BORON, DISSOLVED (UG/L AS B)	06/29/48-09/09/93	8	30.	26.25	30.	20.	26.786	5.175	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	06/29/48-09/09/93	9	18.	24.778	88.	7.	622.194	24.944	7.	10.	27.5	88.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	05/16/73-09/09/93	9	3.	3.	6.	2.	1.5	1.225	2.	2.	3.	6.

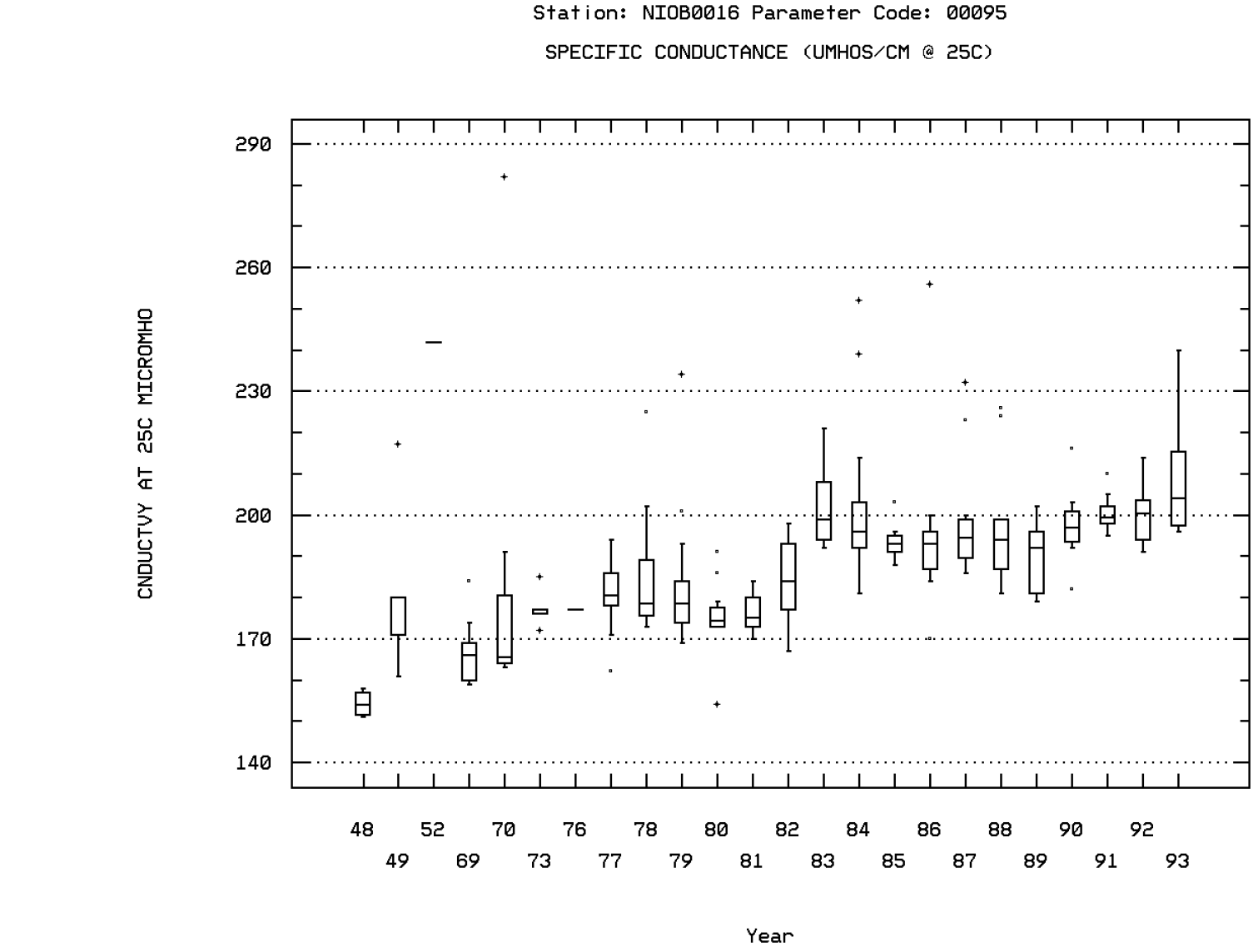
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: NIOB0016 Parameter Code: 00080

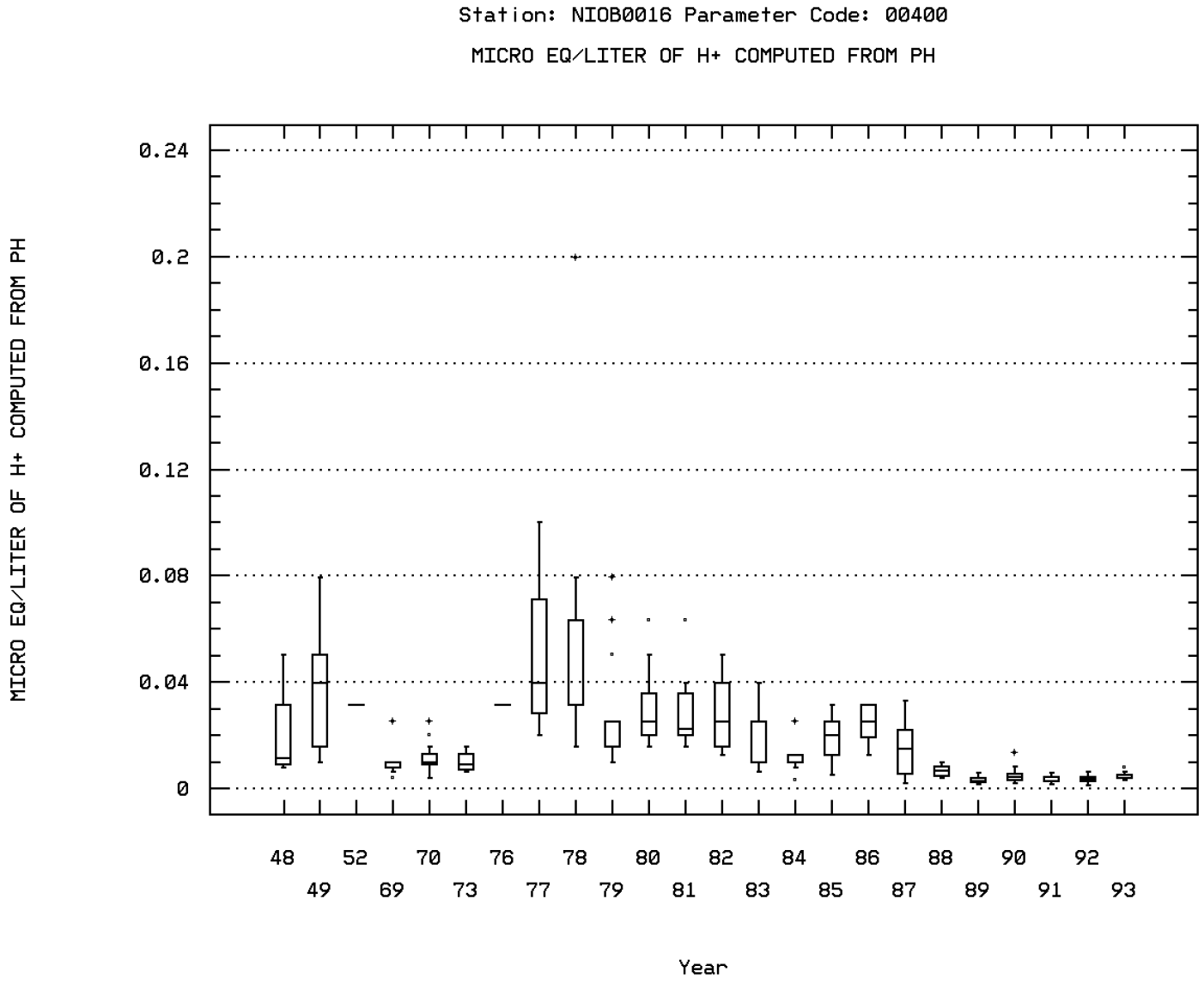
COLOR (PLATINUM-COBALT UNITS)



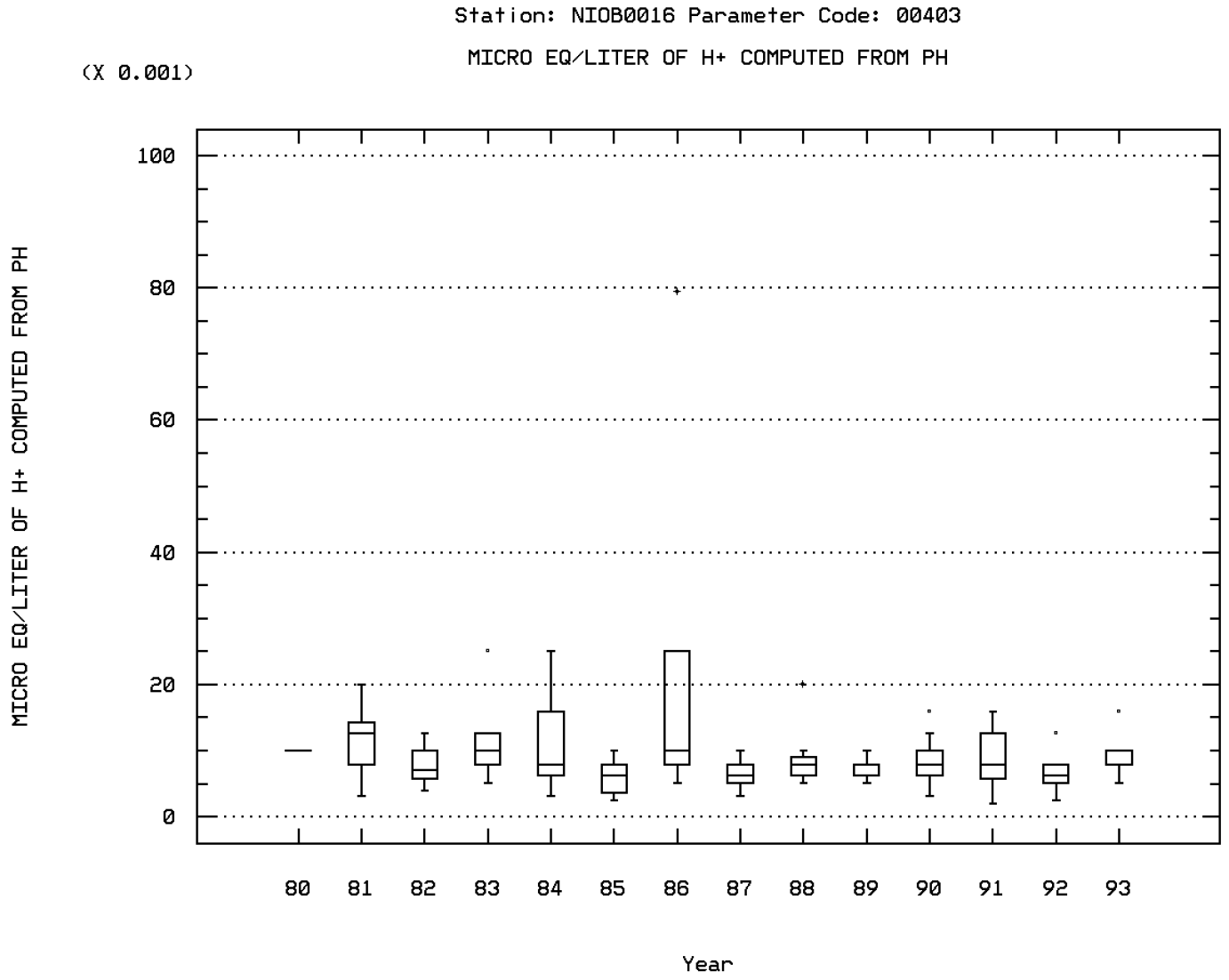
LONG PINE CREEK NEAR RIVERVIEW, NEBR.



LONG PINE CREEK NEAR RIVERVIEW, NEBR.



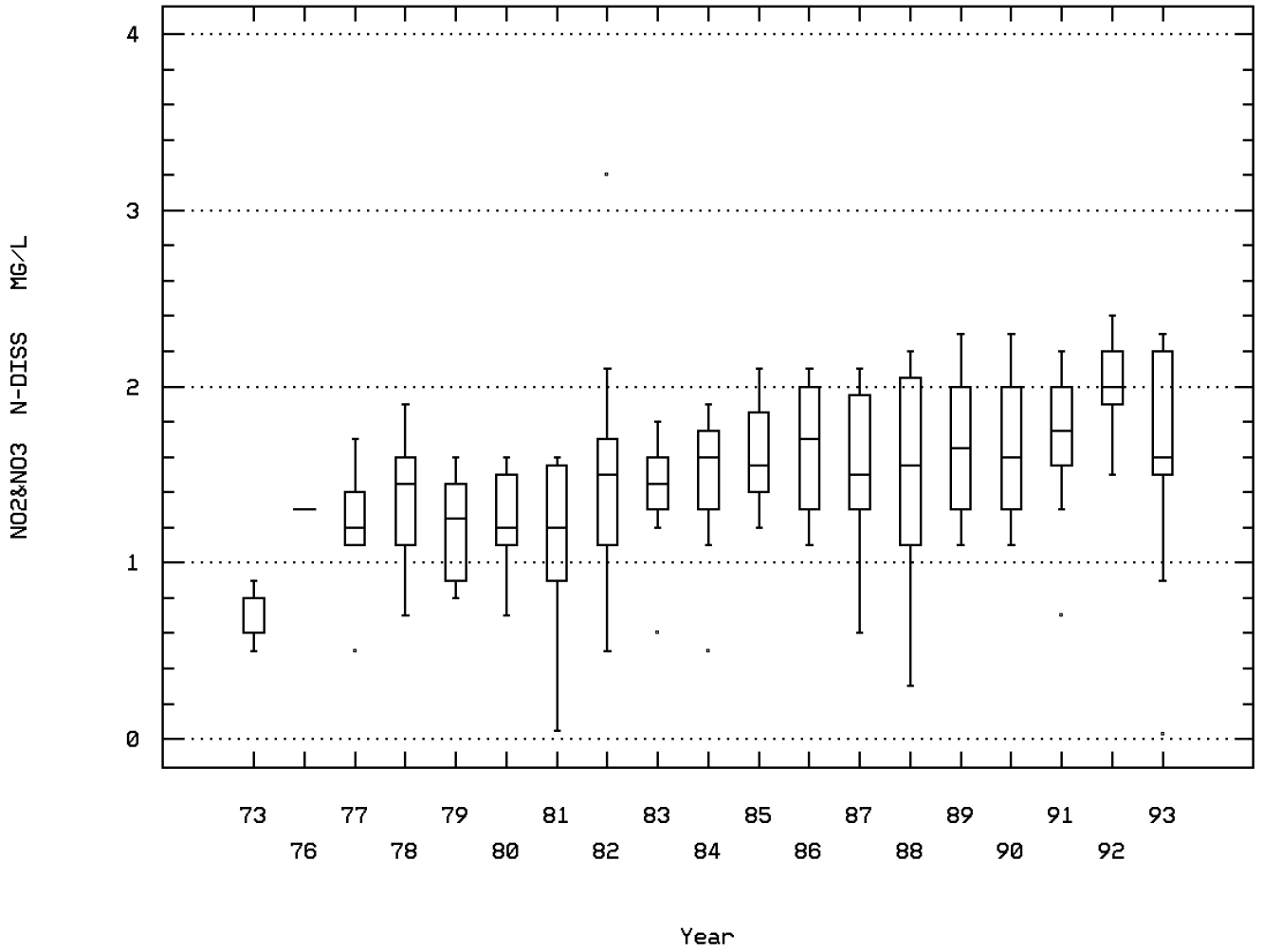
LONG PINE CREEK NEAR RIVERVIEW, NEBR.



LONG PINE CREEK NEAR RIVERVIEW, NEBR.

Station: NIOB0016 Parameter Code: 00631

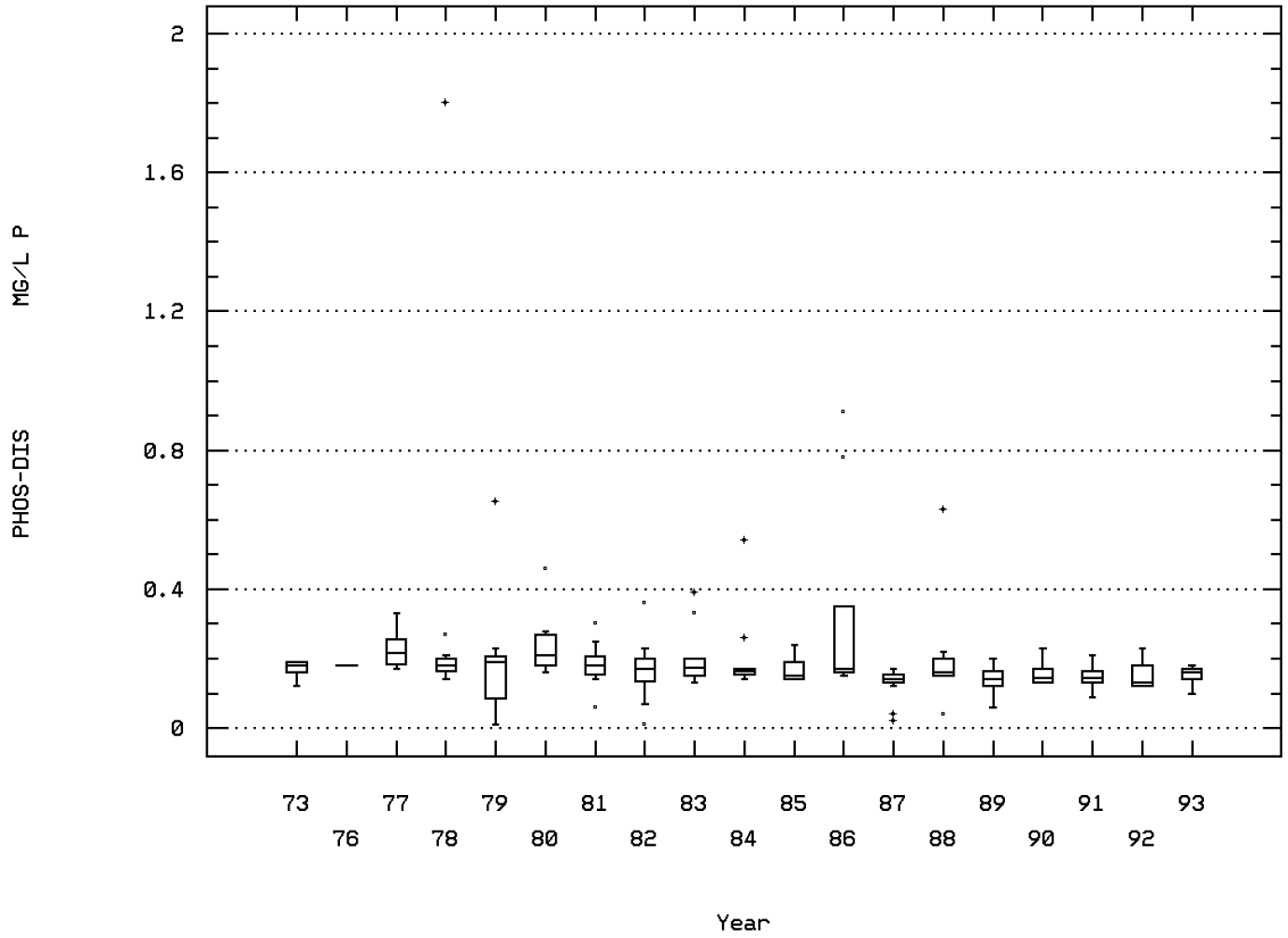
NITRITE PLUS NITRATE, DISS. 1 DET. (MG/



LONG PINE CREEK NEAR RIVERVIEW, NEBR.

Station: NIOB0016 Parameter Code: 00666

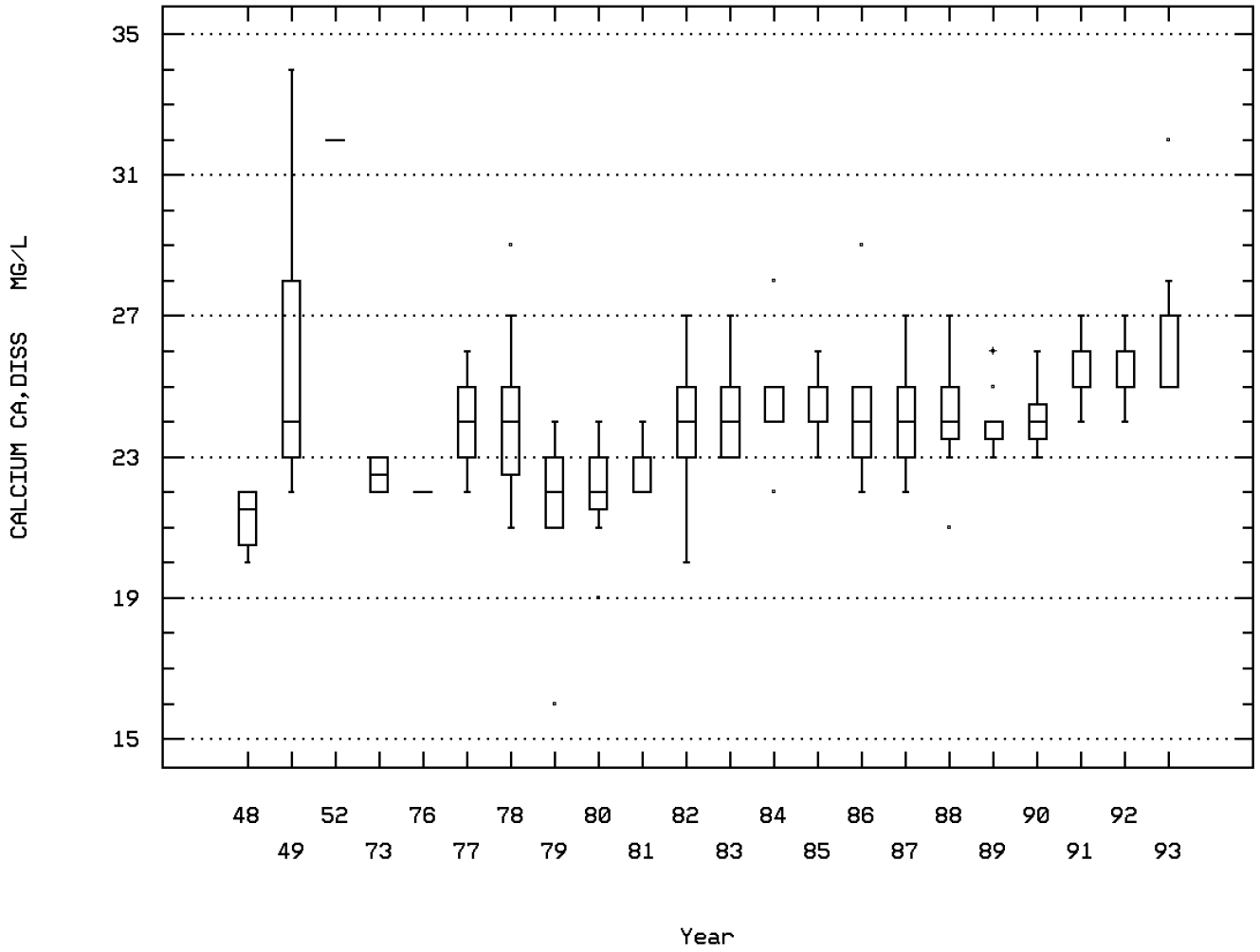
PHOSPHORUS, DISSOLVED (MG/L AS P)



LONG PINE CREEK NEAR RIVERVIEW, NEBR.

Station: NIOB0016 Parameter Code: 00915

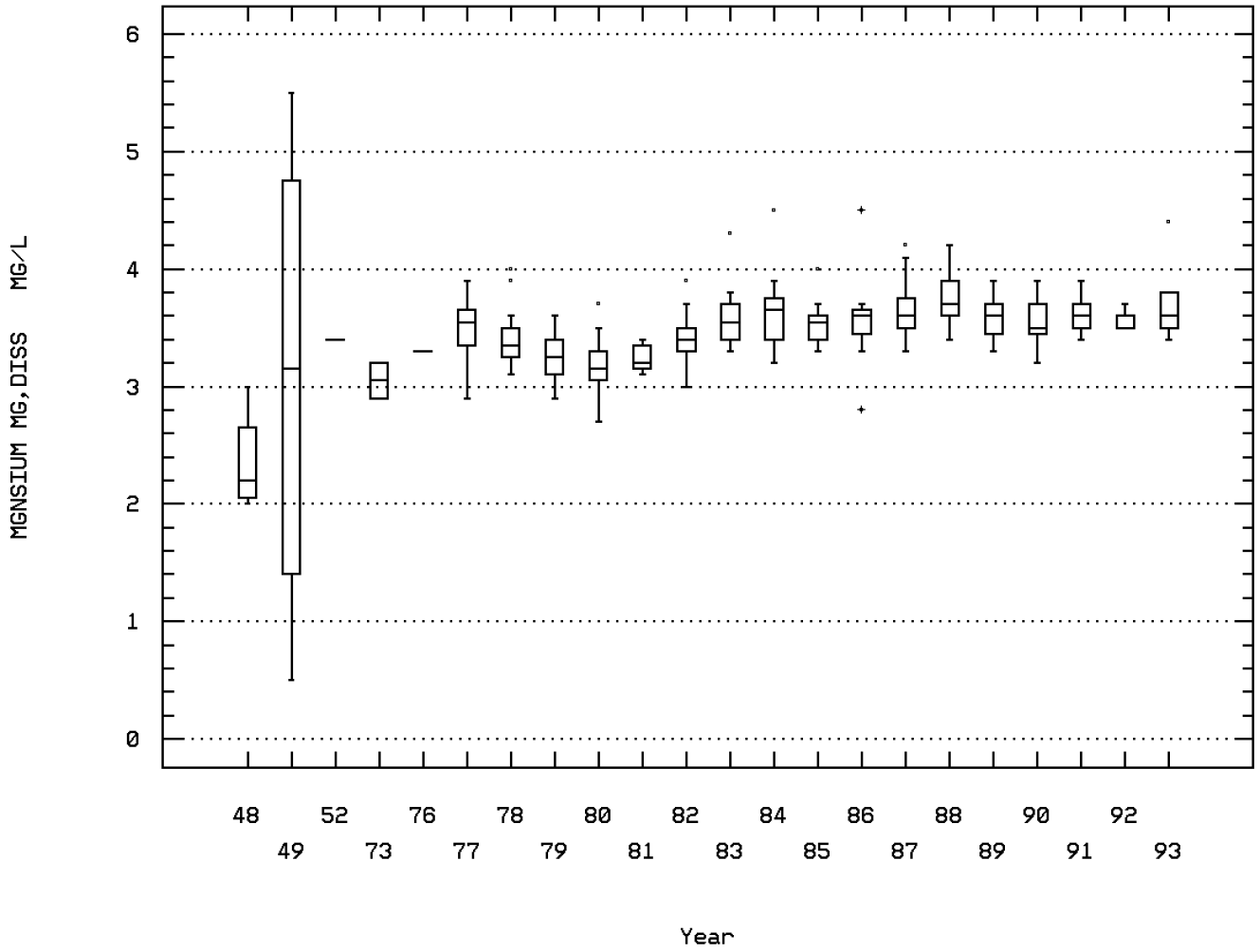
CALCIUM, DISSOLVED (MG/L AS CA)



LONG PINE CREEK NEAR RIVERVIEW, NEBR.

Station: NIOB0016 Parameter Code: 00925

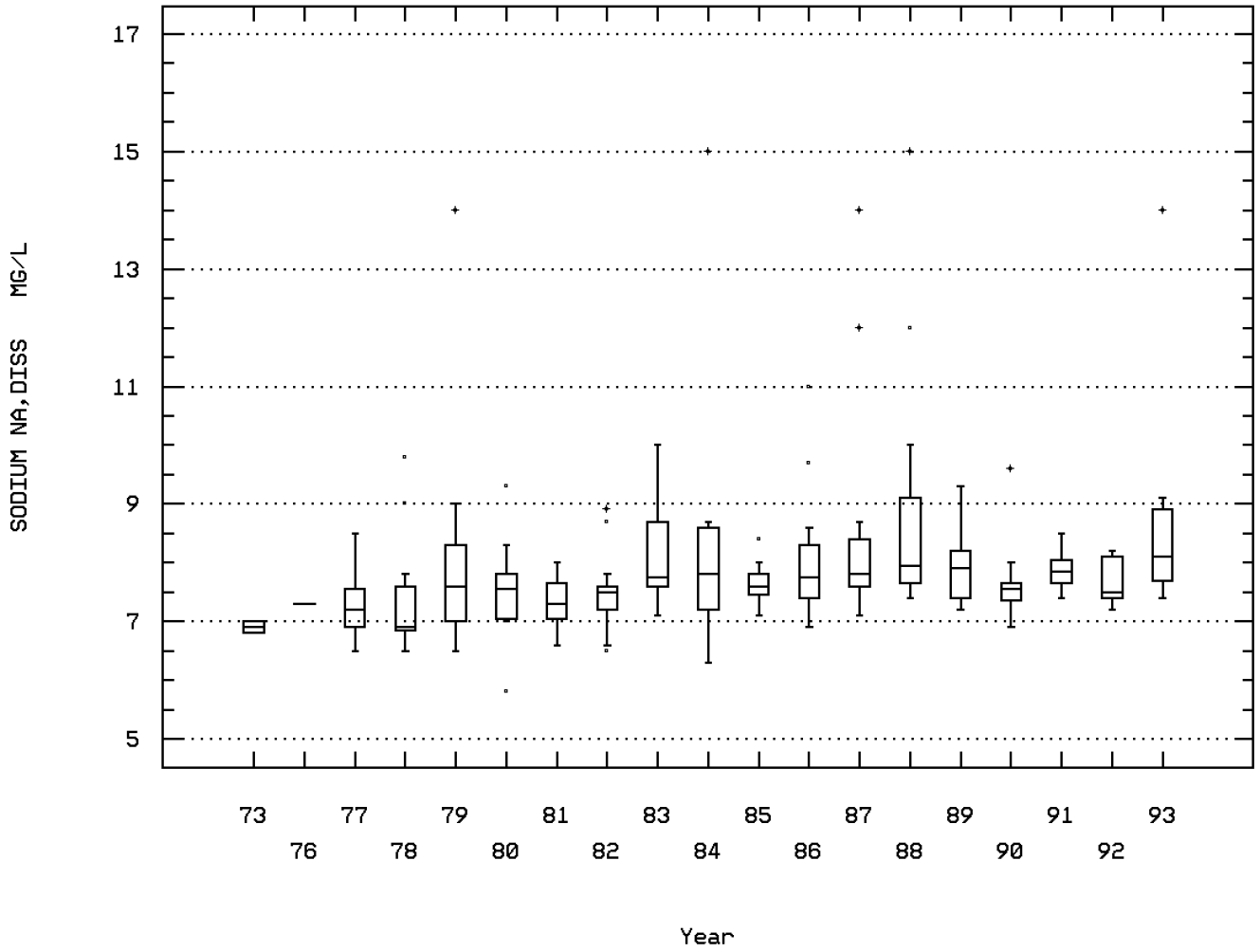
MAGNESIUM, DISSOLVED (MG/L AS MG)



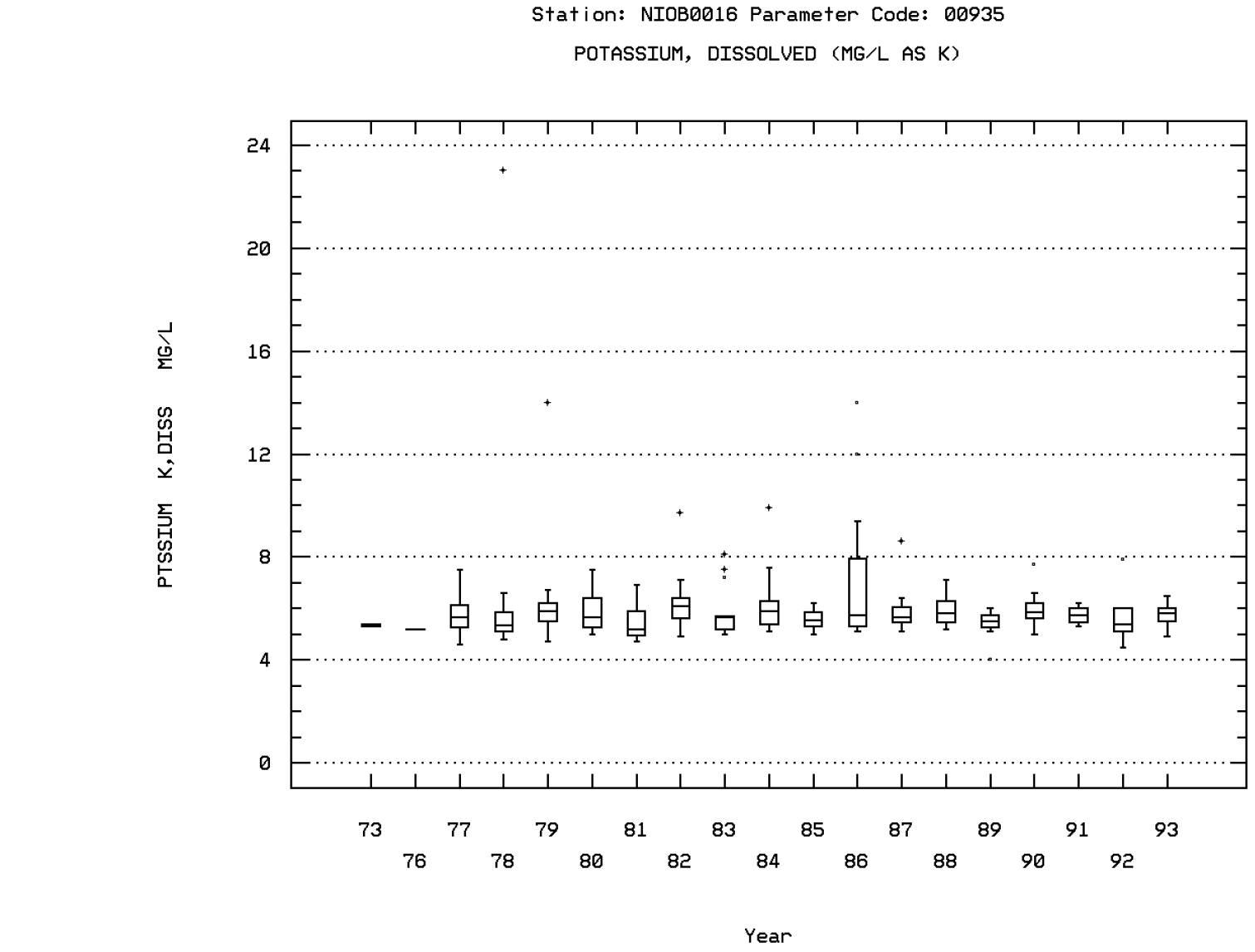
LONG PINE CREEK NEAR RIVERVIEW, NEBR.

Station: NIOB0016 Parameter Code: 00930

SODIUM, DISSOLVED (MG/L AS NA)



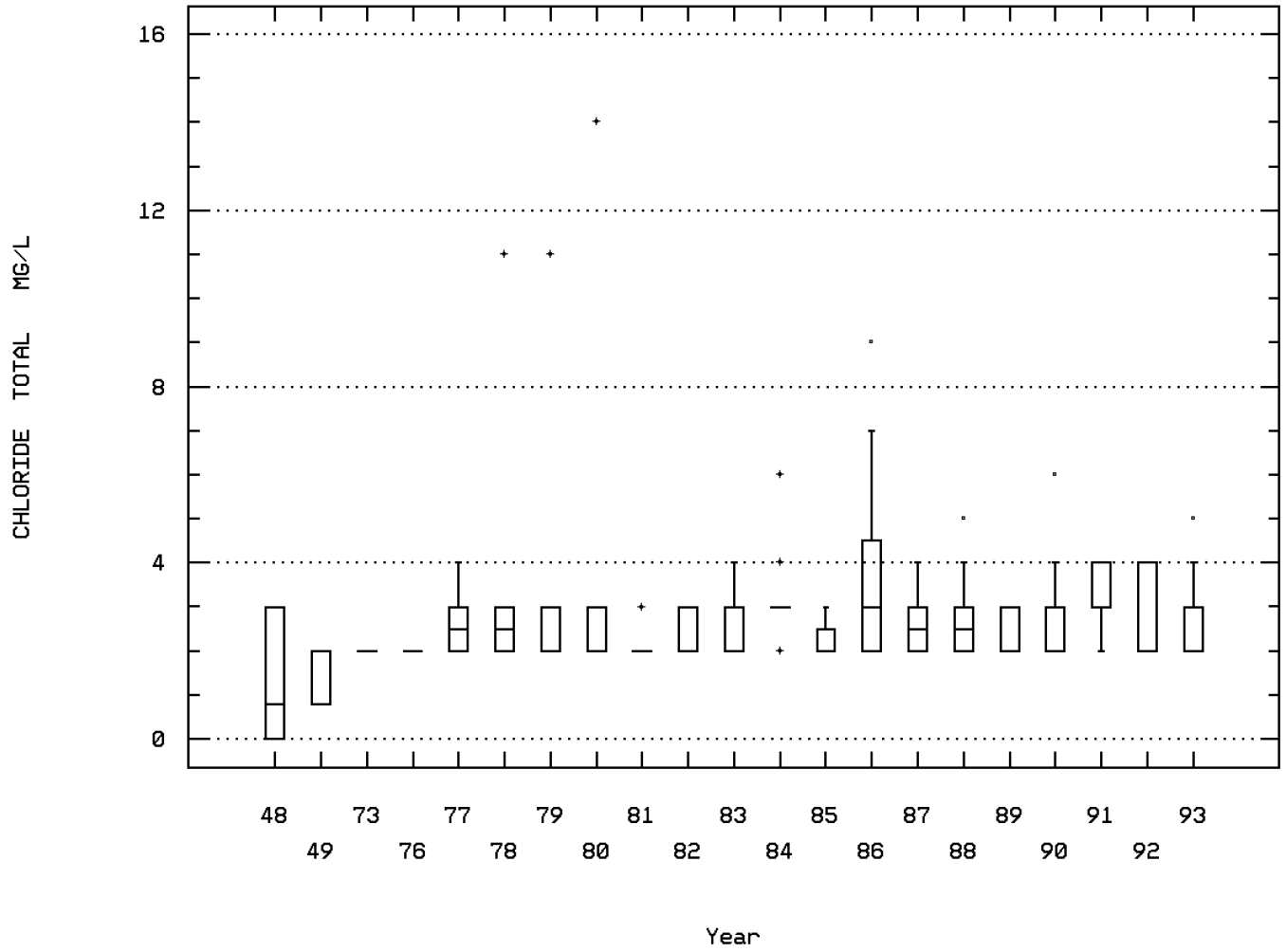
LONG PINE CREEK NEAR RIVERVIEW, NEBR.



LONG PINE CREEK NEAR RIVERVIEW, NEBR.

Station: NIOB0016 Parameter Code: 00940

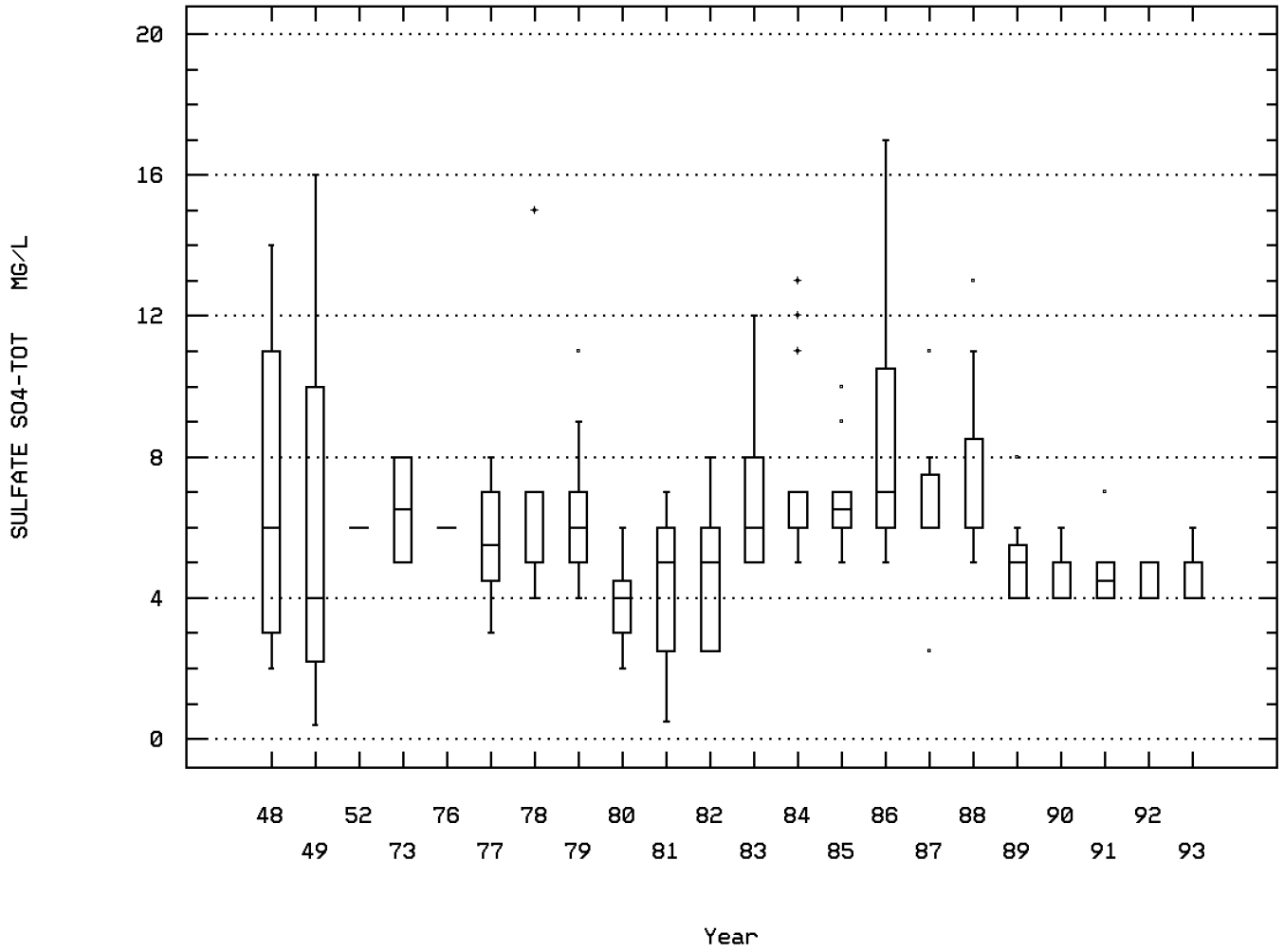
CHLORIDE,TOTAL IN WATER



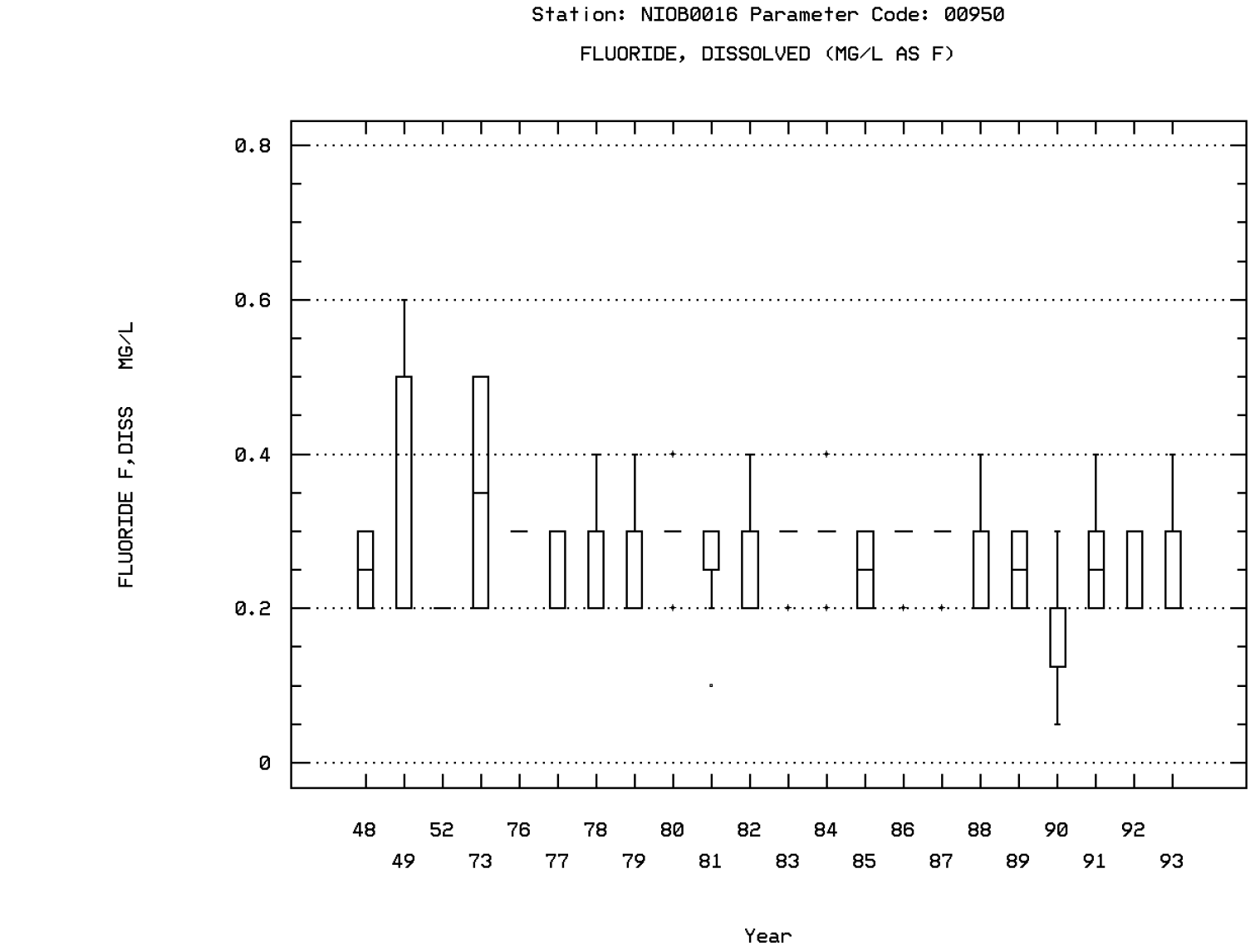
LONG PINE CREEK NEAR RIVERVIEW, NEBR.

Station: NIOB0016 Parameter Code: 00945

SULFATE, TOTAL (MG/L AS SO4)



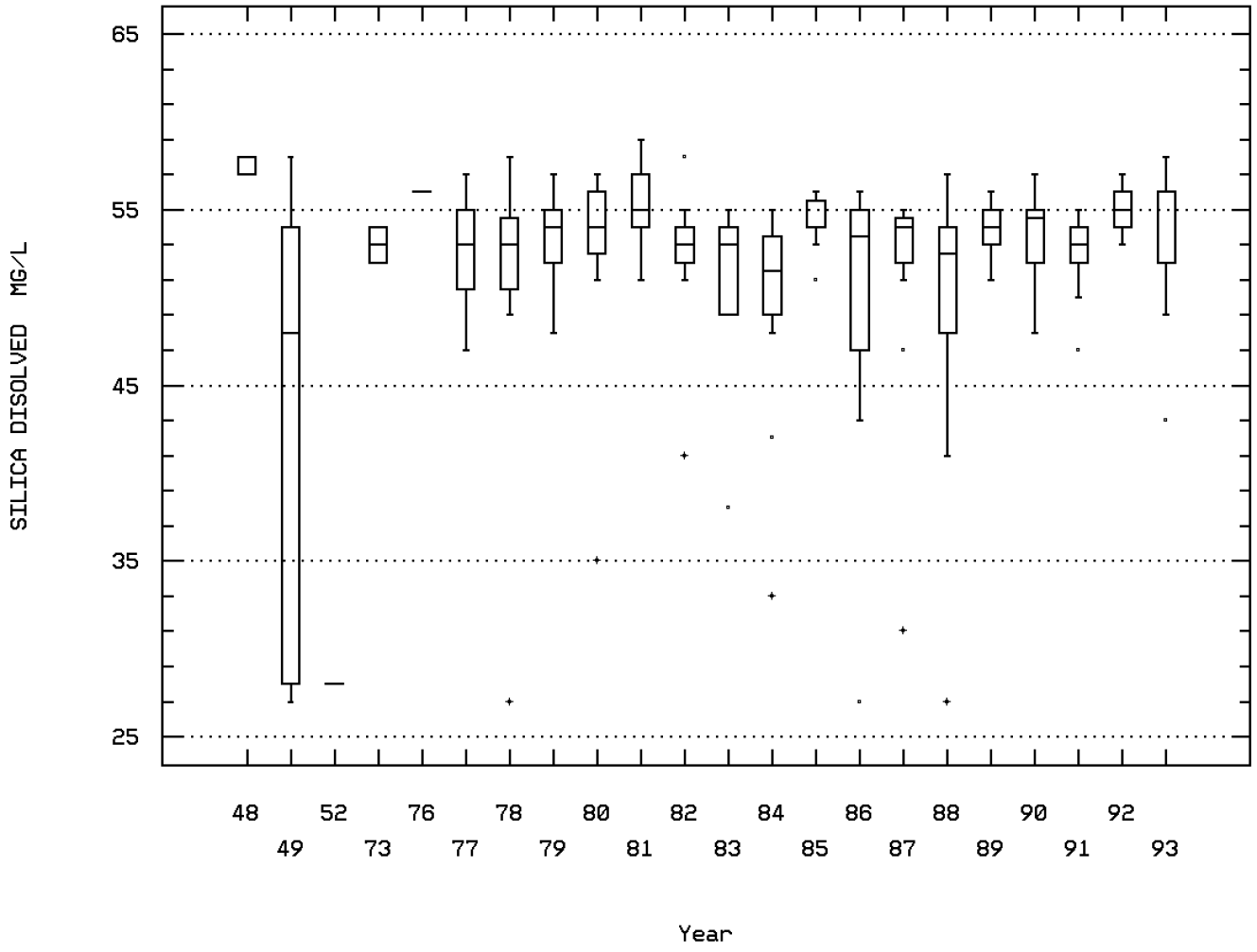
LONG PINE CREEK NEAR RIVERVIEW, NEBR.



LONG PINE CREEK NEAR RIVERVIEW, NEBR.

Station: NIOB0016 Parameter Code: 00955

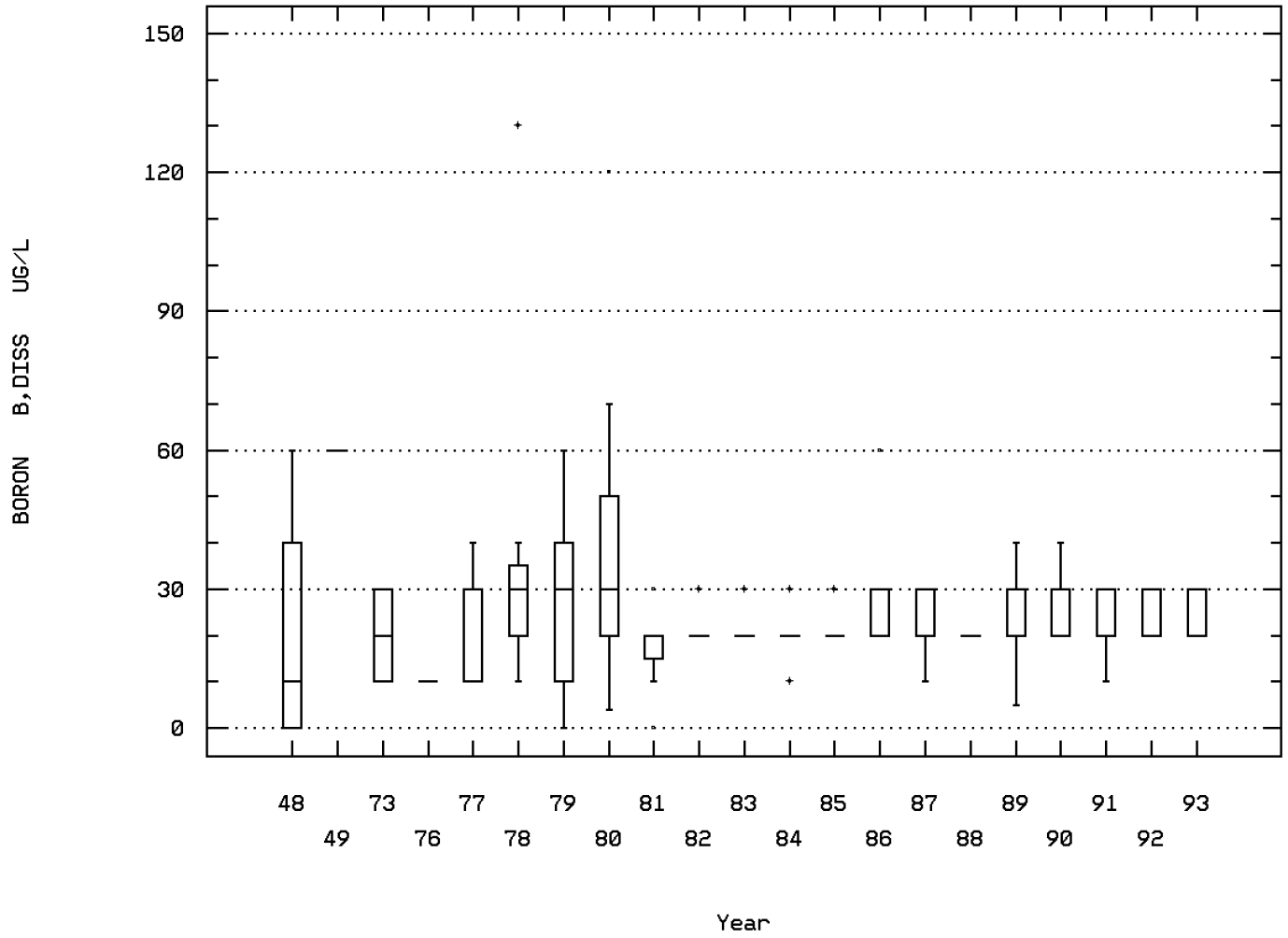
SILICA, DISSOLVED (MG/L AS SI02)



LONG PINE CREEK NEAR RIVERVIEW, NEBR.

Station: NIOB0016 Parameter Code: 01020

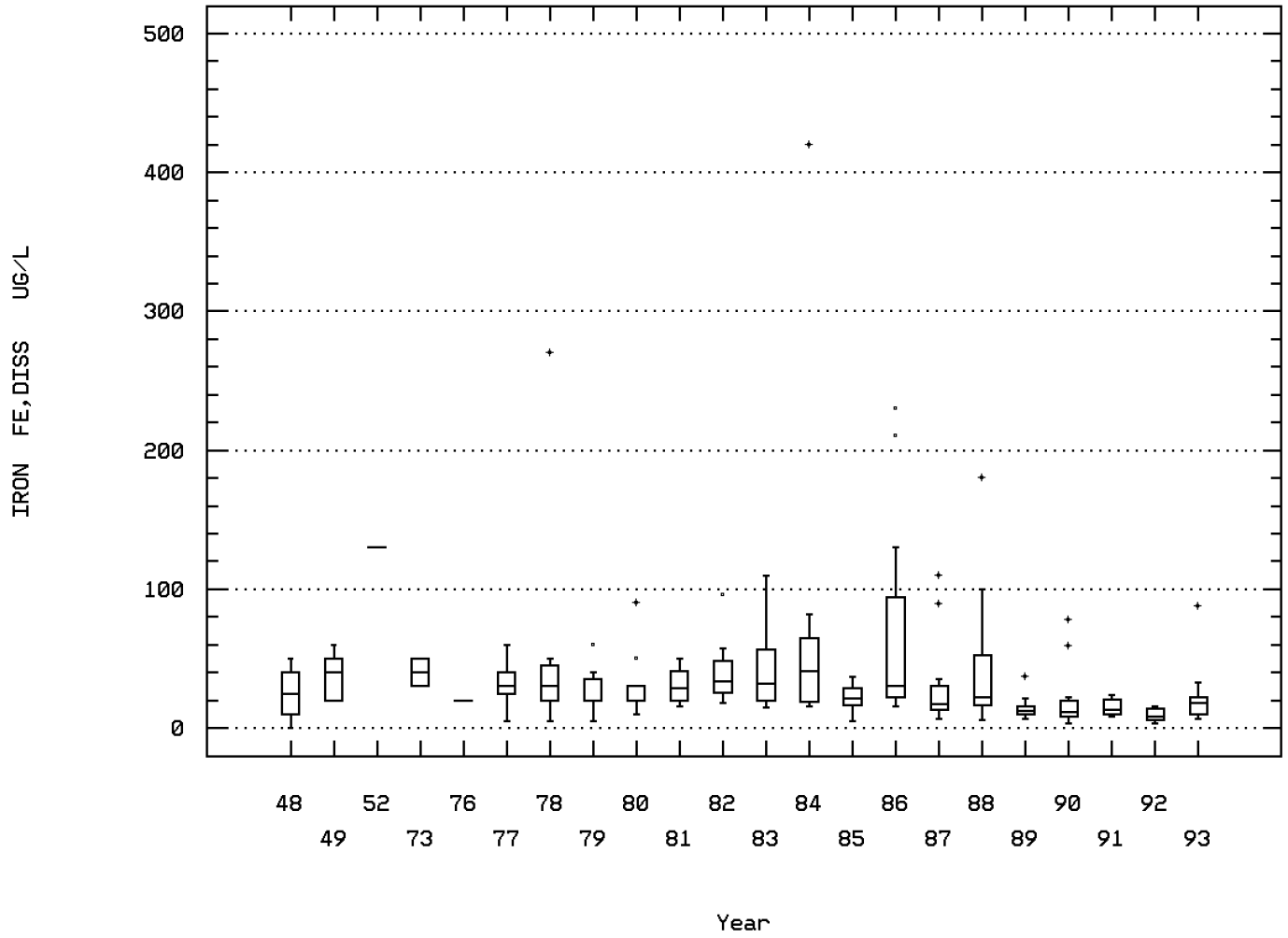
BORON, DISSOLVED (UG/L AS B)



LONG PINE CREEK NEAR RIVERVIEW, NEBR.

Station: NIOB0016 Parameter Code: 01046

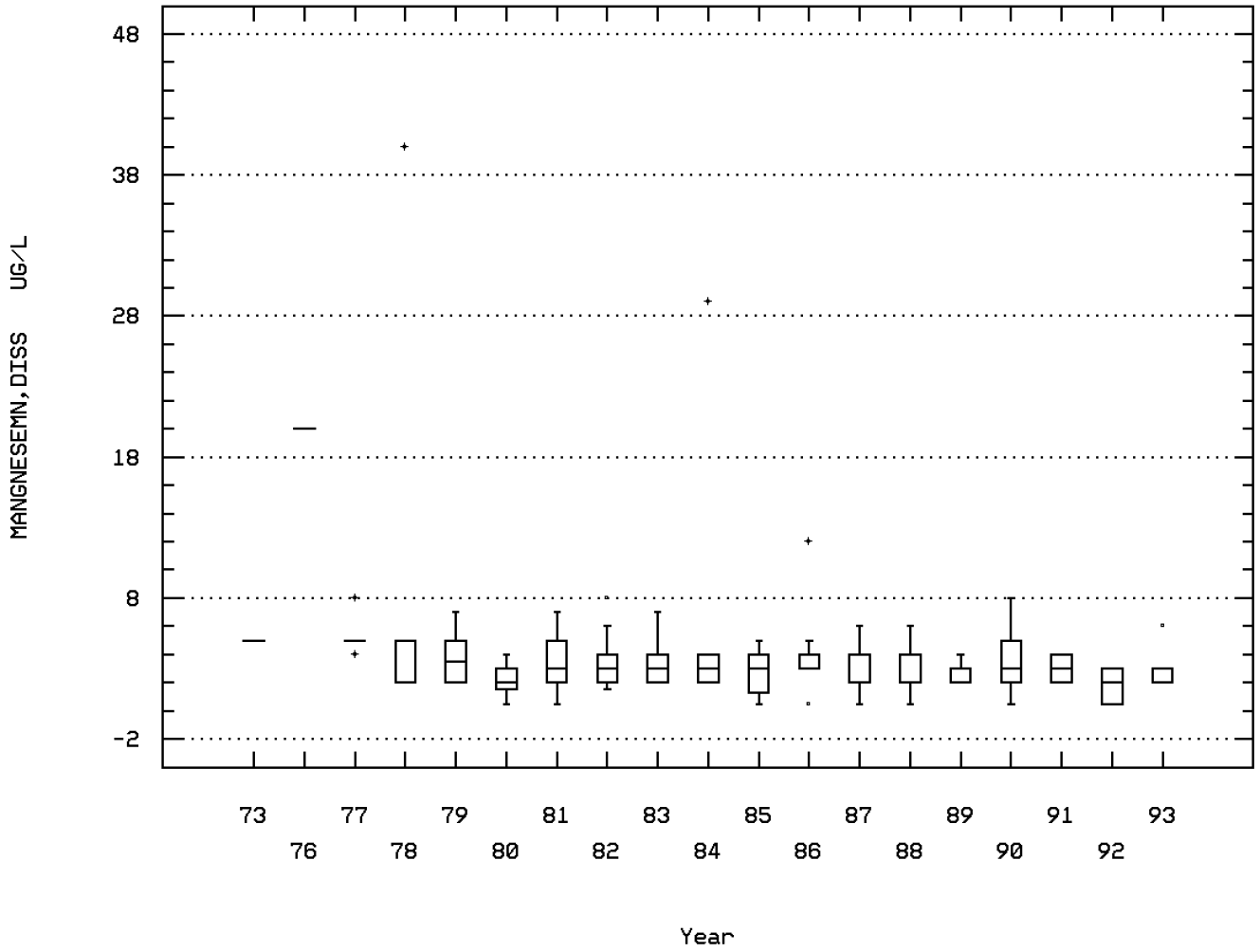
IRON, DISSOLVED (UG/L AS FE)



LONG PINE CREEK NEAR RIVERVIEW, NEBR.

Station: NIOB0016 Parameter Code: 01056

MANGANESE, DISSOLVED (UG/L AS MN)



LONG PINE CREEK NEAR RIVERVIEW, NEBR.

Seasonal Analysis for Season #1: 8/01 to 1/14 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	122	10.5	11.406	29.	0.	48.981	6.999	3.	5.	17.5	21.35
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/69-09/09/93	107	14.	11.771	37.	-15.5	138.643	11.775	3.4	9.	22.5	29.2
00060p	FLOW, STREAM, MEAN DAILY CFS	06/29/48-10/11/73	14	115.	120.286	174.	89.	590.066	24.291	91.	103.	139.	164.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	140	157.	179.543	1410.	89.	28204.48	167.942	105.	135.25	170.	189.7
00080	COLOR (PLATINUM-COBALT UNITS)	05/16/73-09/09/93	90	5.	10.978	240.	0.	649.359	25.483	1.1	3.	12.	19.8
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	109	189.	187.119	214.	156.	165.699	12.872	170.	177.	196.	203.
00300	OXYGEN, DISSOLVED MG/L	07/31/69-10/23/85	10	10.9	10.65	12.1	8.8	1.349	1.162	8.86	9.475	11.625	12.09
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	110	7.9	7.941	8.85	6.7	0.181	0.425	7.5	7.6	8.3	8.509
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	110	7.9	7.736	8.85	6.7	0.224	0.473	7.5	7.6	8.3	8.509
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	110	0.013	0.018	0.2	0.001	0.001	0.023	0.003	0.005	0.025	0.032
00403	PH, LAB, STANDARD UNITS SU	11/20/80-09/09/93	76	8.1	8.137	8.7	7.6	0.041	0.202	7.9	8.	8.275	8.4
00403	CONVERTED PH, LAB, STANDARD UNITS	11/20/80-09/09/93	76	8.1	8.091	8.7	7.6	0.043	0.207	7.9	8.	8.275	8.4
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/80-09/09/93	76	0.008	0.008	0.025	0.002	0.	0.004	0.004	0.005	0.01	0.013
00405	CARBON DIOXIDE (MG/L AS CO2)	05/16/73-09/26/79	12	5.25	7.883	28.	1.2	58.511	7.649	1.32	2.875	11.	24.4
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/29/48-09/04/80	24	77.5	77.167	85.	70.	16.058	4.007	72.	74.	80.75	82.
00440p	BICARBONATE ION (MG/L AS HCO3)	06/29/48-09/26/79	14	96.	95.214	100.	89.	19.566	4.423	89.	90.	100.	100.
00445p	CARBONATE ION (MG/L AS CO3)	06/29/48-09/26/79	14	0.	0.071	1.	0.	0.071	0.267	0.	0.	0.	0.5
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/25/73-09/09/93	99	1.6	1.547	3.2	0.045	0.241	0.49	0.9	1.3	1.9	2.1
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/25/73-09/09/93	67	0.2	0.24	2.1	0.03	0.059	0.243	0.14	0.17	0.24	0.302
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/25/73-09/09/93	91	0.16	0.175	0.91	0.01	0.01	0.101	0.12	0.14	0.19	0.23
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/29/48-02/05/86	44	71.	71.045	82.	62.	17.254	4.154	65.5	68.	74.	76.
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/29/48-09/04/80	24	0.	0.042	1.	0.	0.042	0.204	0.	0.	0.	0.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/29/48-09/09/93	99	24.	23.667	27.	20.	1.735	1.317	22.	23.	25.	25.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/29/48-09/09/93	100	3.5	3.443	3.9	2.3	0.057	0.239	3.11	3.3	3.6	3.7
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/16/73-09/09/93	98	7.6	7.566	8.7	6.5	0.2	0.447	6.9	7.2	7.8	8.2
00931p	SODIUM ADSORPTION RATIO	06/29/48-02/05/86	44	0.4	0.405	0.7	0.3	0.003	0.053	0.4	0.4	0.4	0.4
00932p	SODIUM, PERCENT	06/29/48-02/05/86	44	17.	17.636	32.	15.	7.911	2.813	16.	16.	17.75	21.
00933p	SODIUM,PLUS POTASSIUM (MG/L)	06/29/48-03/19/80	9	14.	13.233	15.	9.1	2.84	1.685	9.1	13.	14.	15.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/73-09/09/93	99	5.7	5.938	14.	4.9	1.258	1.122	5.2	5.3	6.1	6.8
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/29/48-09/09/93	102	3.	2.588	6.	0.	0.601	0.775	2.	2.	3.	3.
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/29/48-09/09/93	101	6.	5.817	17.	1.	4.774	2.185	4.	5.	6.5	7.8
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	06/29/48-09/09/93	100	0.3	0.27	0.5	0.05	0.004	0.063	0.2	0.2	0.3	0.3
00955p	SILICA, DISSOLVED (MG/L AS SI02)	06/29/48-09/09/93	98	54.	53.796	58.	27.	10.412	3.227	51.9	53.	55.	56.1
01020p	BORON, DISSOLVED (UG/L AS B)	06/29/48-09/09/93	97	20.	23.701	120.	0.	200.545	14.161	10.	20.	30.	30.
01046p	IRON, DISSOLVED (UG/L AS FE)	06/29/48-09/09/93	96	20.	22.813	210.	0.	532.491	23.076	6.7	11.	30.	36.5
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/16/73-09/09/93	94	3.	3.037	20.	0.5	5.453	2.335	1.	2.	4.	5.
70301p	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/29/48-02/05/86	41	156.	155.634	182.	120.	81.188	9.01	147.	152.5	159.	165.
70302p	SOLIDS, DISSOLVED-TONS PER DAY	06/29/48-03/10/83	39	63.2	62.246	77.6	35.3	79.974	8.943	55.6	57.4	68.2	72.6
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/29/48-03/10/83	39	0.21	0.212	0.25	0.2	0.	0.01	0.2	0.21	0.22	0.22

** - 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 box-and-whisker plot

Seasonal Analysis for Season #2: 1/15 to 3/09 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	32	4.	4.313	9.5	0.5	7.157	2.675	1.	2.125	6.	9.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/69-09/09/93	30	-9.	0.15	16.5	-19.	103.451	10.171	3.	9.125	15.375	-15.6
00060p	FLOW, STREAM, MEAN DAILY CFS	06/29/48-10/11/73	5	117.	117.6	122.	114.	8.3	2.881	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	32	156.5	162.031	350.	70.	3053.451	55.258	104.8	128.75	174.5	227.9
00080	COLOR (PLATINUM-COBALT UNITS)	05/16/73-09/09/93	24	8.5	18.313	120.	0.5	706.474	26.58	2.	5.	18.75	55.5
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	31	187.	186.097	232.	162.	278.29	16.682	164.2	172.	200.	203.
00300	OXYGEN, DISSOLVED MG/L	07/31/69-10/23/85	5	11.8	11.74	12.2	11.1	0.163	0.404	**	**	**	**
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	31	7.8	7.789	8.6	7.1	0.192	0.438	7.2	7.4	8.1	8.368
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	31	7.8	7.594	8.6	7.1	0.231	0.481	7.2	7.4	8.1	8.368
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	31	0.016	0.025	0.079	0.003	0.001	0.023	0.004	0.008	0.04	0.063
00403	PH, LAB, STANDARD UNITS SU	11/20/80-09/09/93	17	8.	8.041	8.5	7.6	0.034	0.184	7.84	8.	8.1	8.34
00403	CONVERTED PH, LAB, STANDARD UNITS	11/20/80-09/09/93	17	8.	8.005	8.5	7.6	0.035	0.188	7.84	8.	8.1	8.34

** - 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: 1/15 to 3/09 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/80-09/09/93	17	0.01	0.01	0.025	0.003	0.	0.005	0.005	0.008	0.01	0.015
00405	CARBON DIOXIDE (MG/L AS CO2)	05/16/73-09/26/79	3	9.7	8.933	11.	6.1	6.443	2.538	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/29/48-09/04/80	7	78.	75.286	80.	62.	43.238	6.576	**	**	**	**
00440p	BICARBONATE ION (MG/L AS HCO3)	06/29/48-09/26/79	3	95.	92.333	96.	86.	30.333	5.508	**	**	**	**
00445p	CARBONATE ION (MG/L AS CO3)	06/29/48-09/26/79	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/25/73-09/09/93	26	1.7	1.723	2.3	0.5	0.158	0.397	1.31	1.5	2.	2.3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/25/73-09/09/93	19	0.21	0.252	0.55	0.06	0.016	0.125	0.14	0.17	0.32	0.46
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/25/73-09/09/93	23	0.17	0.198	0.63	0.12	0.013	0.112	0.128	0.14	0.18	0.356
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/29/48-02/05/86	11	70.	68.182	74.	52.	40.164	6.337	54.	67.	72.	74.
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/29/48-09/04/80	7	0.	0.	0.	0.	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/29/48-09/09/93	26	24.	23.346	27.	16.	4.715	2.171	20.7	22.	25.	25.3
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/29/48-09/09/93	26	3.5	3.435	4.1	2.9	0.073	0.27	3.	3.275	3.6	3.7
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/16/73-09/09/93	26	7.55	7.927	12.	6.5	1.932	1.39	6.64	7.175	8.15	10.39
00931p	SODIUM ADSORPTION RATIO	06/29/48-02/05/86	11	0.4	0.4	0.5	0.3	0.002	0.045	0.32	0.4	0.4	0.48
00932p	SODIUM, PERCENT	06/29/48-02/05/86	11	17.	17.545	21.	16.	3.873	1.968	16.	16.	19.	21.
00933p	SODIUM,PLUS POTASSIUM (MG/L)	06/29/48-03/19/80	2	13.5	13.5	14.	13.	0.5	0.707	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/73-09/09/93	26	5.3	5.638	9.7	4.6	1.59	1.261	4.67	4.975	5.8	7.37
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/29/48-09/09/93	26	2.	2.692	7.	2.	1.422	1.192	2.	2.	3.	4.3
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/29/48-09/09/93	26	5.	5.923	13.	3.	5.354	2.314	4.	4.75	6.25	10.3
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	06/29/48-09/09/93	26	0.3	0.254	0.3	0.2	0.003	0.051	0.2	0.2	0.3	0.3
00955p	SILICA, DISSOLVED (MG/L AS SI02)	06/29/48-09/09/93	26	54.	52.385	59.	27.	44.646	6.682	42.4	51.5	56.	57.3
01020p	BORON, DISSOLVED (UG/L AS B)	06/29/48-09/09/93	26	20.	21.538	40.	10.	45.538	6.748	10.	20.	22.5	30.
01046p	IRON, DISSOLVED (UG/L AS FE)	06/29/48-09/09/93	26	20.	36.654	180.	5.	1787.435	42.278	5.	15.	41.5	116.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/16/73-09/09/93	26	3.	3.192	6.	0.5	2.462	1.569	0.85	2.	5.	5.
70301p	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/29/48-02/05/86	11	155.	152.364	162.	135.	64.655	8.041	136.2	148.	156.	161.6
70302p	SOLIDS, DISSOLVED-TONS PER DAY	06/29/48-03/10/83	10	57.1	60.04	77.7	48.5	111.743	10.571	48.64	50.2	68.2	77.5
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/29/48-03/10/83	10	0.21	0.205	0.22	0.18	0.	0.012	0.181	0.198	0.21	0.219

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Seasonal Analysis for Season #3: 3/10 to 7/31 - Station NIOB0016

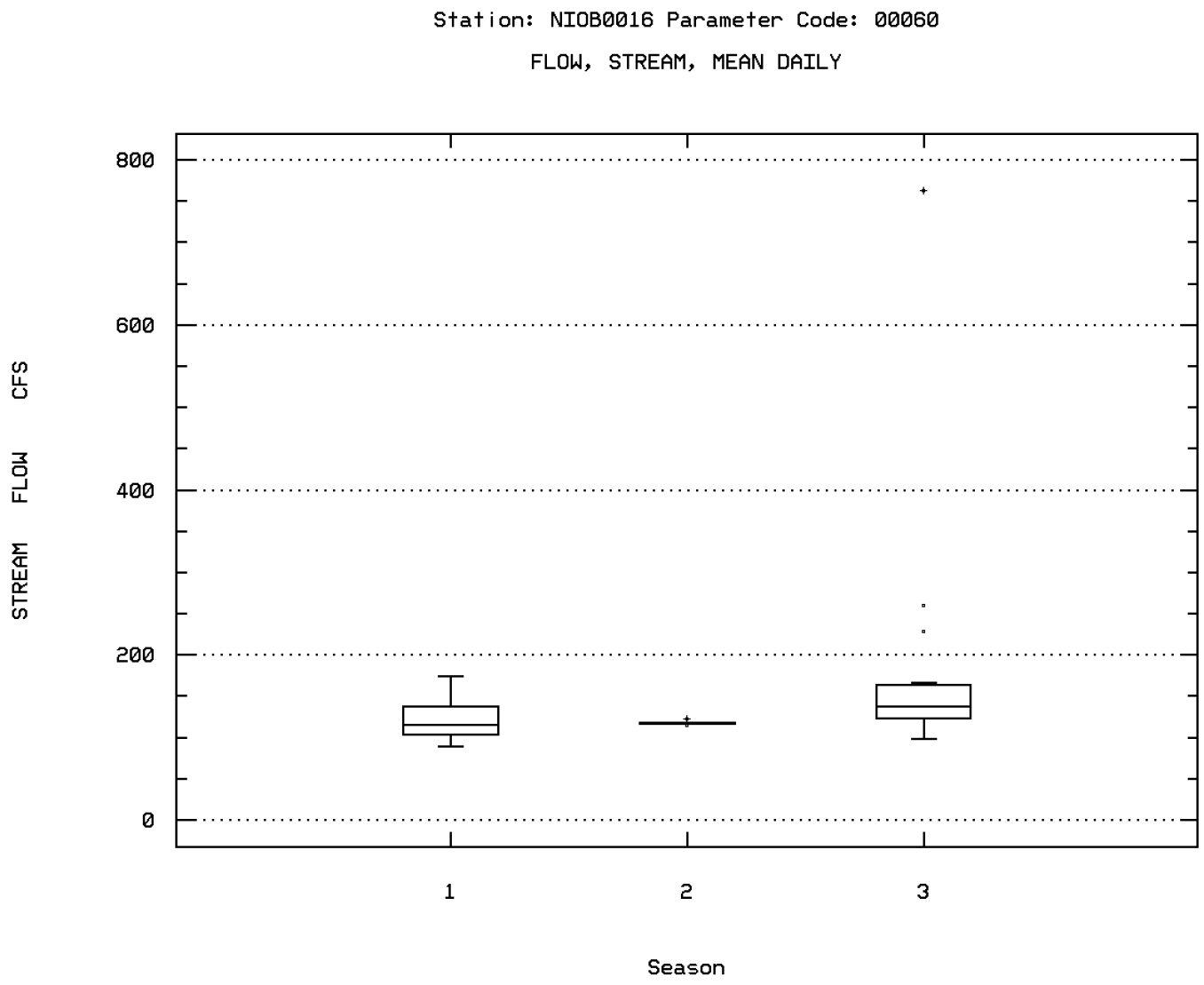
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/50-09/09/93	109	17.	16.349	28.	2.	36.729	6.06	7.5	12.	21.	23.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/69-09/09/93	86	22.	20.238	36.	-2.	71.622	8.463	6.85	14.375	26.5	29.6
00060p	FLOW, STREAM, MEAN DAILY CFS	06/29/48-10/11/73	19	138.	176.263	762.	98.	21777.649	147.573	99.	123.	164.	259.
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/06/48-09/09/93	129	168.	240.039	3450.	96.	102199.491	319.687	114.	146.	211.	361.
00080	COLOR (PLATINUM-COBALT UNITS)	05/16/73-09/09/93	72	15.	33.319	350.	0.5	3461.171	58.832	4.3	7.	30.	69.7
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/29/48-09/09/93	96	190.5	192.677	282.	151.	528.726	22.994	169.	176.25	199.75	224.3
00300	OXYGEN, DISSOLVED MG/L	07/31/69-10/23/85	8	8.9	9.288	11.6	8.6	1.001	1.001	**	**	**	**
00400p	PH (STANDARD UNITS)	06/29/48-09/09/93	97	7.8	7.87	8.9	7.1	0.174	0.417	7.3	7.6	8.245	8.408
00400p	CONVERTED PH (STANDARD UNITS)	06/29/48-09/09/93	97	7.8	7.691	8.9	7.1	0.206	0.454	7.3	7.6	8.245	8.408
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/29/48-09/09/93	97	0.016	0.02	0.079	0.001	0.	0.018	0.004	0.006	0.025	0.05
00403	PH, LAB, STANDARD UNITS SU	11/20/80-09/09/93	59	8.1	8.051	8.6	7.1	0.065	0.256	7.7	7.9	8.2	8.3
00403	CONVERTED PH, LAB, STANDARD UNITS	11/20/80-09/09/93	59	8.1	7.96	8.6	7.1	0.074	0.272	7.7	7.9	8.2	8.3
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/80-09/09/93	59	0.008	0.011	0.079	0.003	0.	0.011	0.005	0.006	0.013	0.02
00405	CARBON DIOXIDE (MG/L AS CO2)	05/16/73-09/26/79	11	10.	7.864	15.	2.4	18.019	4.245	2.54	3.9	11.	14.2
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/29/48-09/04/80	29	80.	82.345	120.	63.	124.377	11.152	71.	75.	85.5	98.
00440p	BICARBONATE ION (MG/L AS HCO3)	06/29/48-09/26/79	19	100.	104.737	146.	92.	201.094	14.181	92.	96.	110.	131.
00445p	CARBONATE ION (MG/L AS CO3)	06/29/48-09/26/79	16	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/25/73-09/09/93	82	1.2	1.237	2.2	0.025	0.159	0.399	0.73	1.	1.5	1.77
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/25/73-09/09/93	59	0.22	0.305	2.1	0.04	0.119	0.345	0.15	0.19	0.29	0.43
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/25/73-09/09/93	78	0.17	0.212	1.8	0.01	0.045	0.212	0.12	0.15	0.21	0.273
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/29/48-02/05/86	41	72.	73.341	102.	57.	74.38	8.624	63.2	68.	79.	80.8
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/29/48-09/04/80	29	0.	0.069	2.	0.	0.138	0.371	0.	0.	0.	0.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/29/48-09/09/93	88	24.	24.545	34.	19.	5.906	2.43	22.	23.	25.75	27.1
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/29/48-09/09/93	88	3.6	3.501	5.5	0.5	0.419	0.647	3.1	3.3	3.8	4.11

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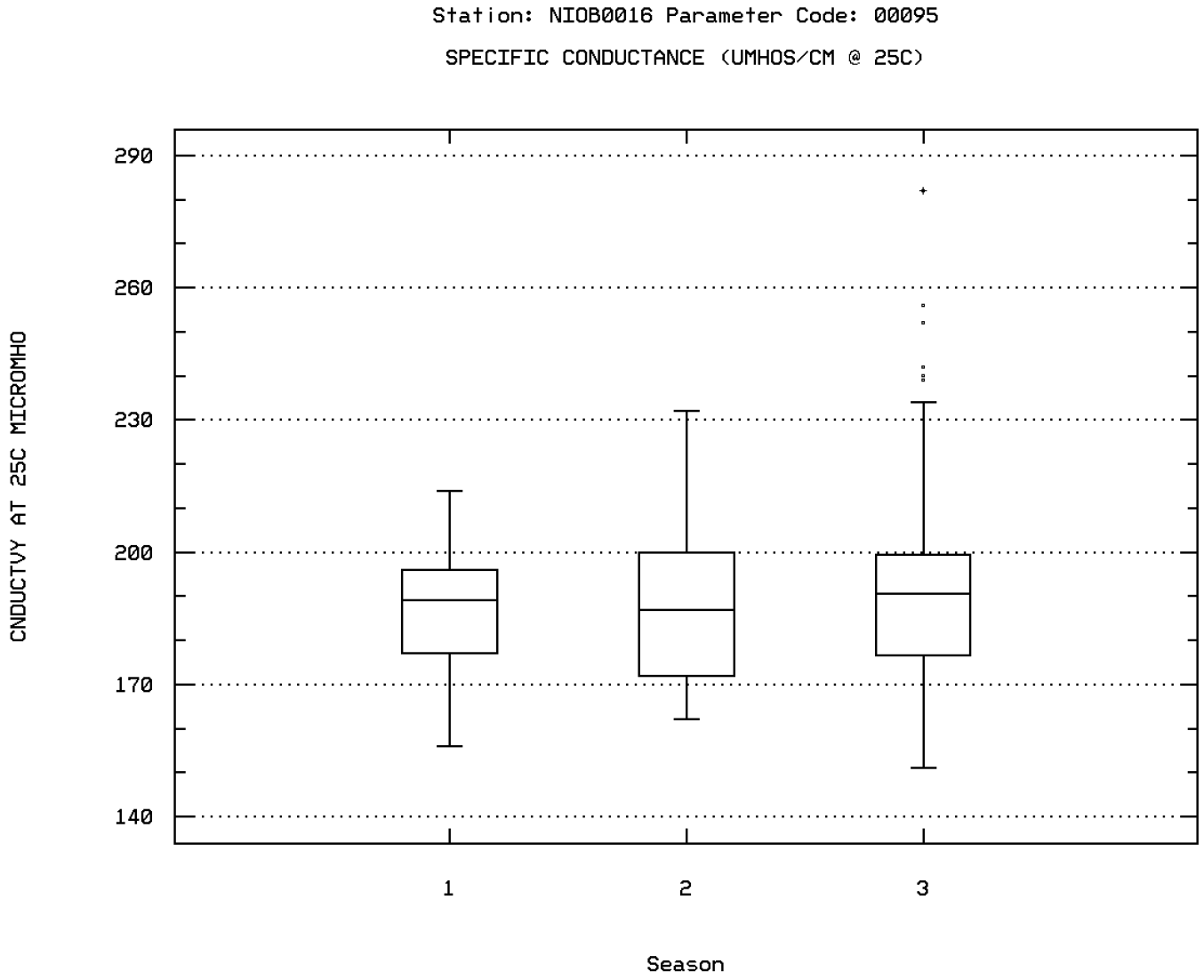
Seasonal Analysis for Season #3: 3/10 to 7/31 - Station NIOB0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/16/73-09/09/93	80	7.75	8.426	15.	5.8	3.938	1.984	7.	7.325	8.85	10.
00931p	SODIUM ADSORPTION RATIO	06/29/48-02/05/86	41	0.4	0.439	0.7	0.1	0.013	0.116	0.3	0.4	0.5	0.6
00932p	SODIUM, PERCENT	06/29/48-02/05/86	41	18.	18.561	30.	8.	17.652	4.201	16.	16.	20.	25.8
00933p	SODIUM,PLUS POTASSIUM (MG/L)	06/29/48-03/19/80	11	12.	10.609	16.	3.	12.681	3.561	3.74	8.	13.	15.4
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/73-09/09/93	80	5.7	6.196	23.	4.	5.415	2.327	5.1	5.4	6.2	7.47
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/29/48-09/09/93	90	2.	2.94	14.	0.8	4.386	2.094	1.1	2.	3.	4.
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/29/48-09/09/93	88	6.	5.836	16.	0.4	8.694	2.948	2.5	4.	7.	10.1
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	06/29/48-09/09/93	88	0.3	0.281	0.6	0.05	0.007	0.081	0.2	0.2	0.3	0.4
00955p	SILICA, DISSOLVED (MG/L AS SI02)	06/29/48-09/09/93	88	52.	50.159	58.	27.	50.526	7.108	40.7	49.	54.	56.
01020p	BORON, DISSOLVED (UG/L AS B)	06/29/48-09/09/93	80	20.	26.125	130.	0.	294.921	17.173	10.	20.	30.	40.
01046p	IRON, DISSOLVED (UG/L AS FE)	06/29/48-09/09/93	86	30.	47.105	420.	3.	3360.424	57.969	13.1	19.75	50.75	89.3
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/16/73-09/09/93	78	3.	4.212	40.	0.5	29.399	5.422	1.	2.	5.	6.1
70301p	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/29/48-02/05/86	38	151.5	153.211	183.	129.	123.576	11.116	139.	146.	159.	168.1
70302p	SOLIDS, DISSOLVED-TONS PER DAY	06/29/48-03/10/83	39	67.8	78.123	403.	37.8	3375.152	58.096	44.2	59.1	74.6	101.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/29/48-03/10/83	39	0.21	0.213	0.27	0.18	0.	0.017	0.2	0.2	0.22	0.24

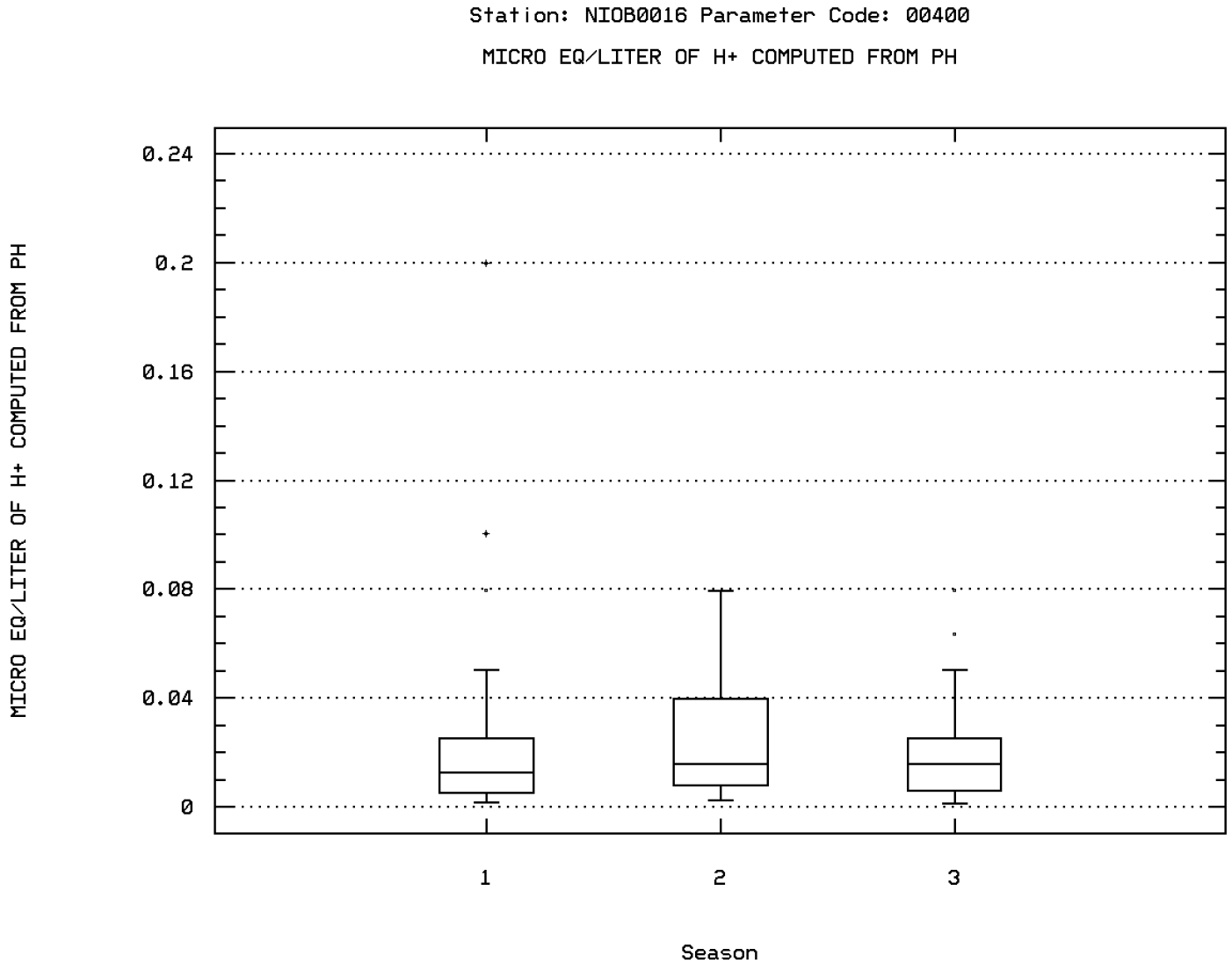
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



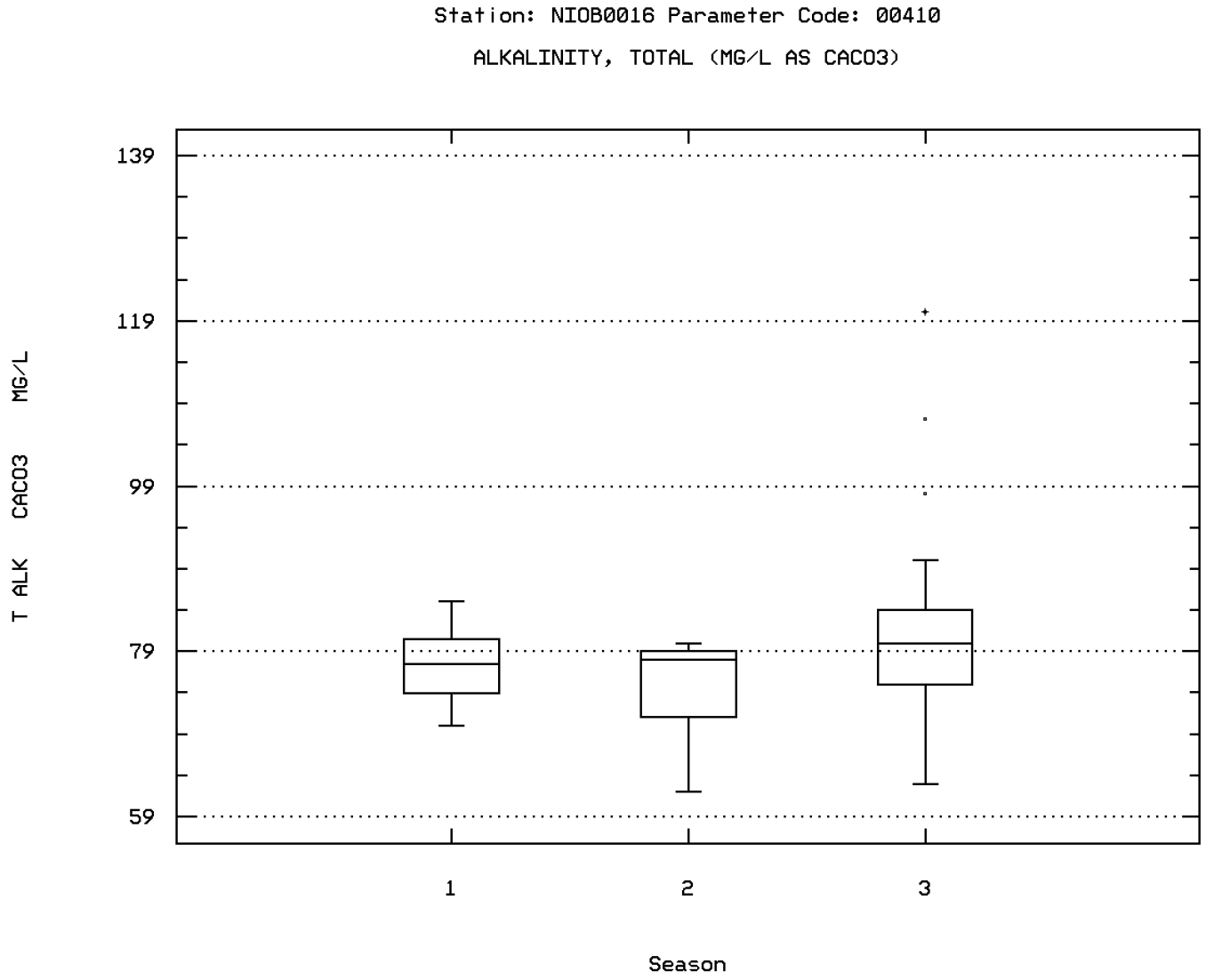
LONG PINE CREEK NEAR RIVERVIEW, NEBR.



LONG PINE CREEK NEAR RIVERVIEW, NEBR.



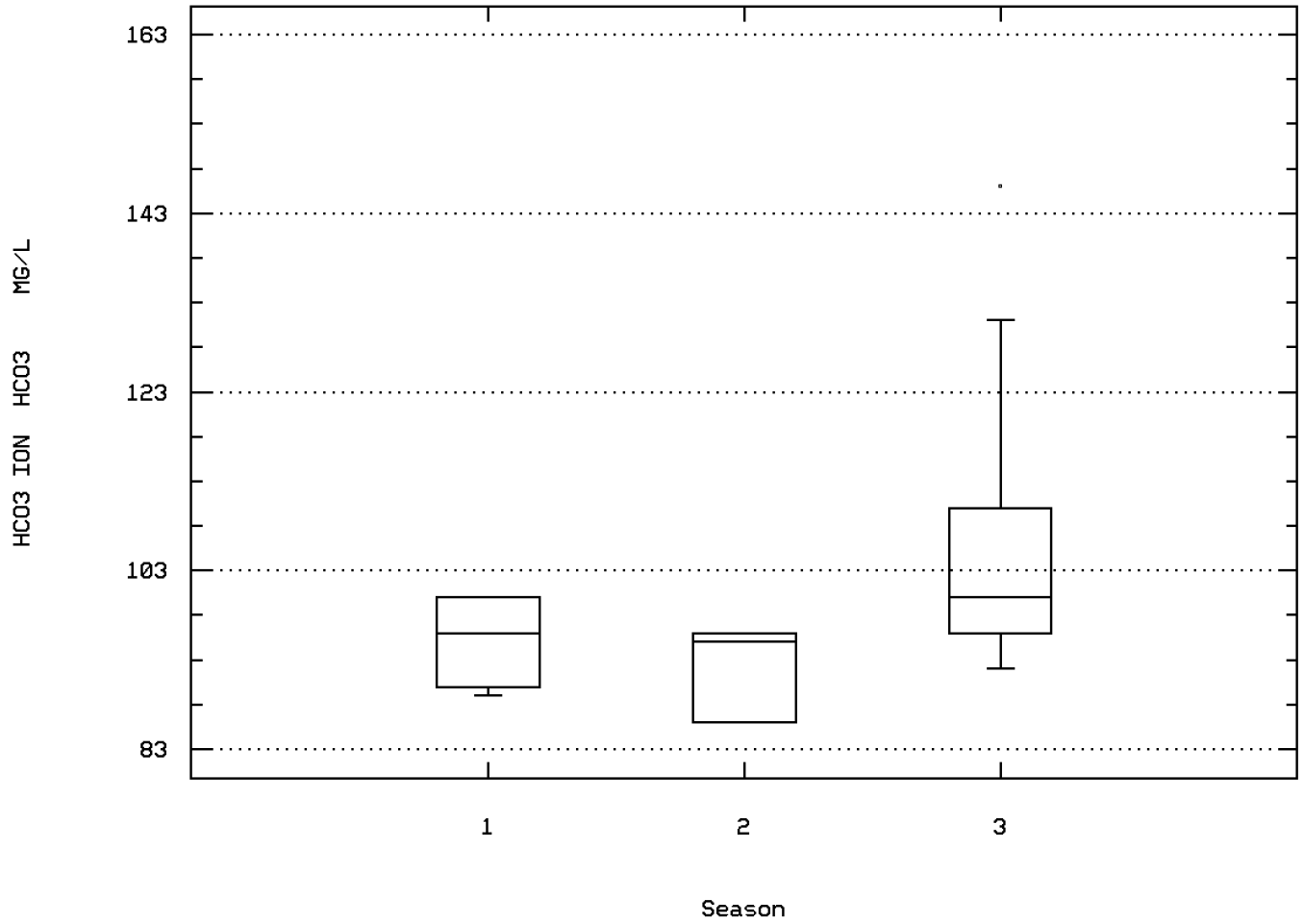
LONG PINE CREEK NEAR RIVERVIEW, NEBR.



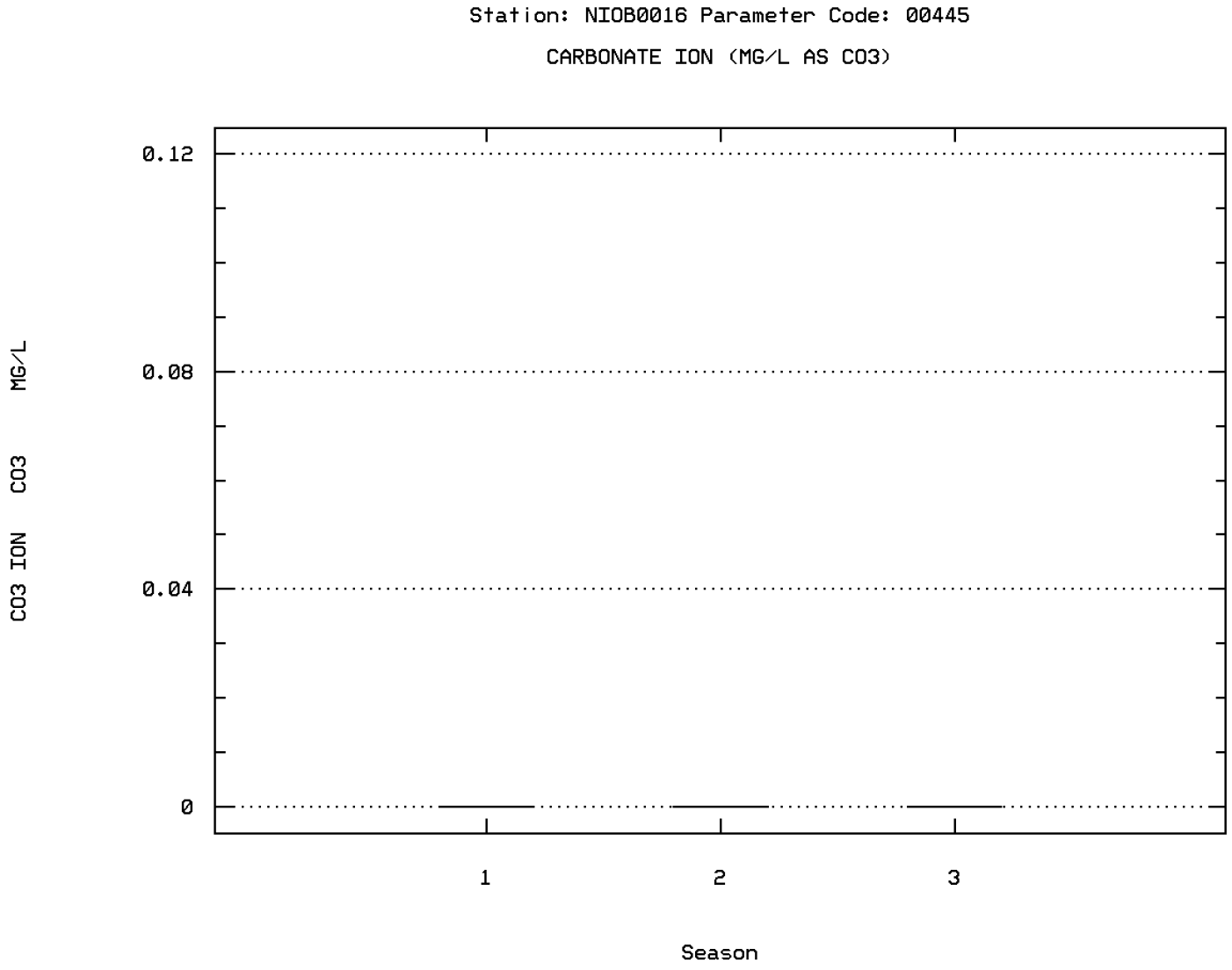
LONG PINE CREEK NEAR RIVERVIEW, NEBR.

Station: NIOB0016 Parameter Code: 00440

BICARBONATE ION (MG/L AS HCO3)



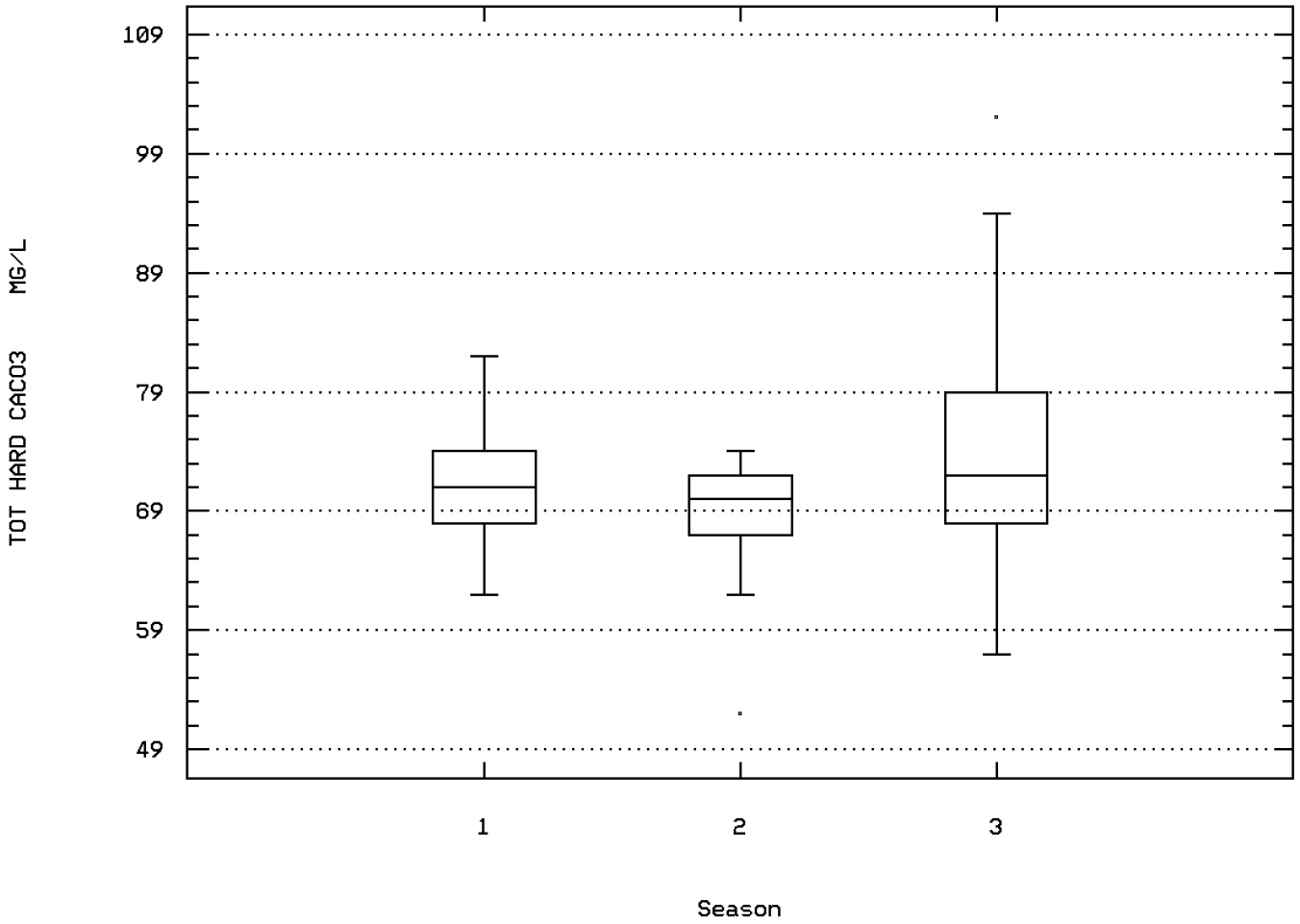
LONG PINE CREEK NEAR RIVERVIEW, NEBR.



LONG PINE CREEK NEAR RIVERVIEW, NEBR.

Station: NIOB0016 Parameter Code: 00900

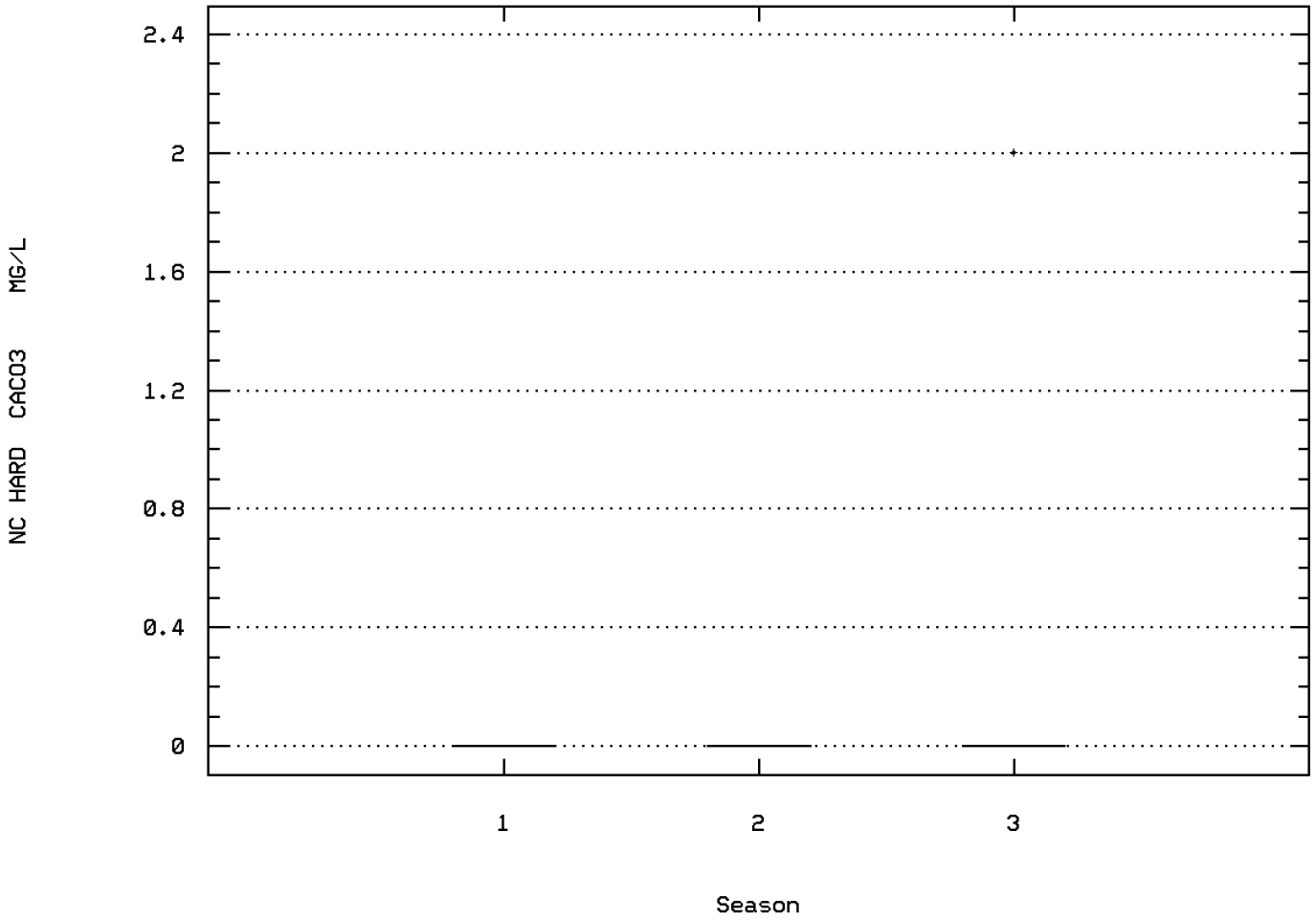
HARDNESS, TOTAL (MG/L AS CACO3)



LONG PINE CREEK NEAR RIVERVIEW, NEBR.

Station: NIOB0016 Parameter Code: 00902

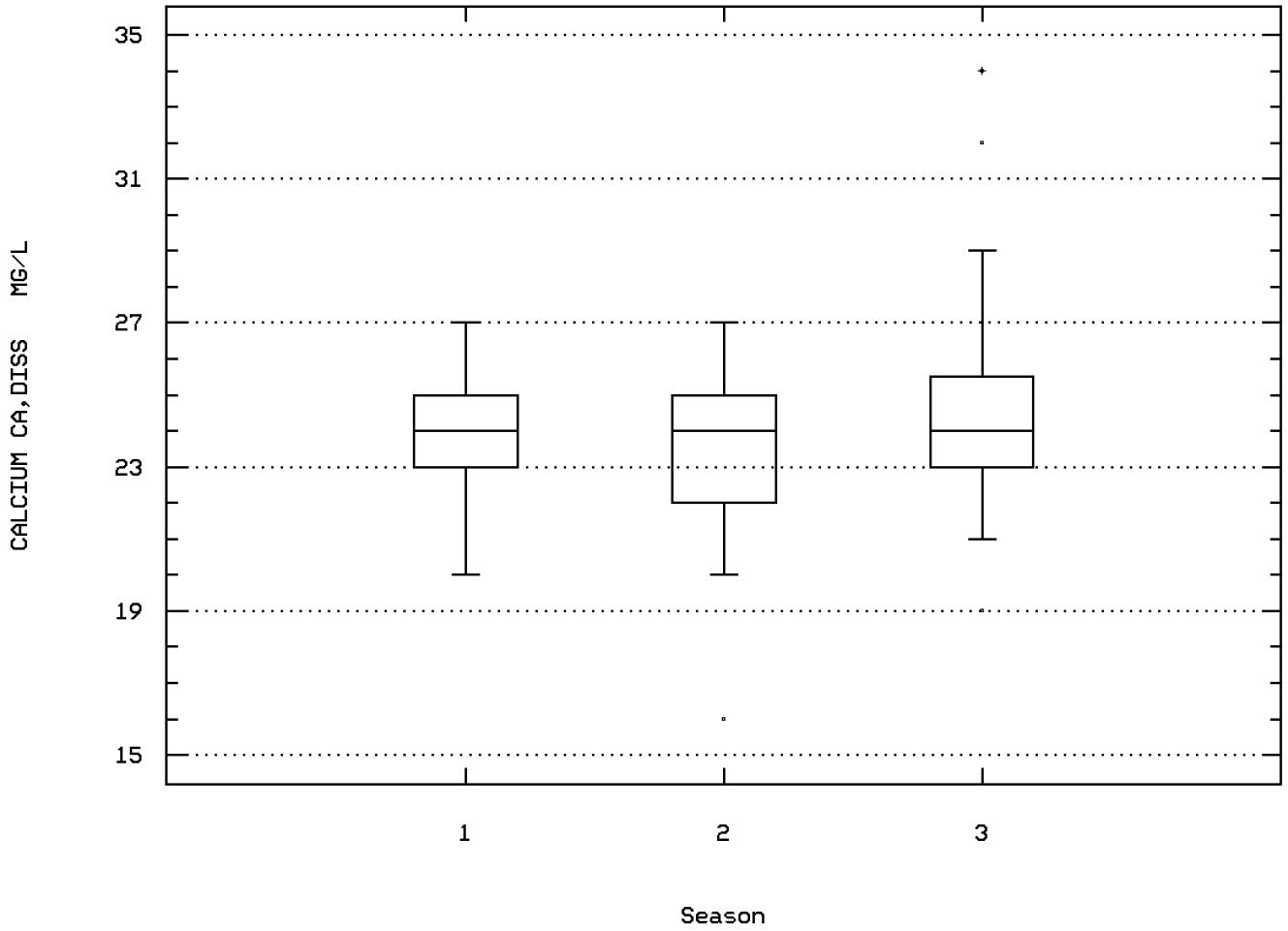
HARDNESS, NON-CARBONATE (MG/L AS CACO3)



LONG PINE CREEK NEAR RIVERVIEW, NEBR.

Station: NIOB0016 Parameter Code: 00915

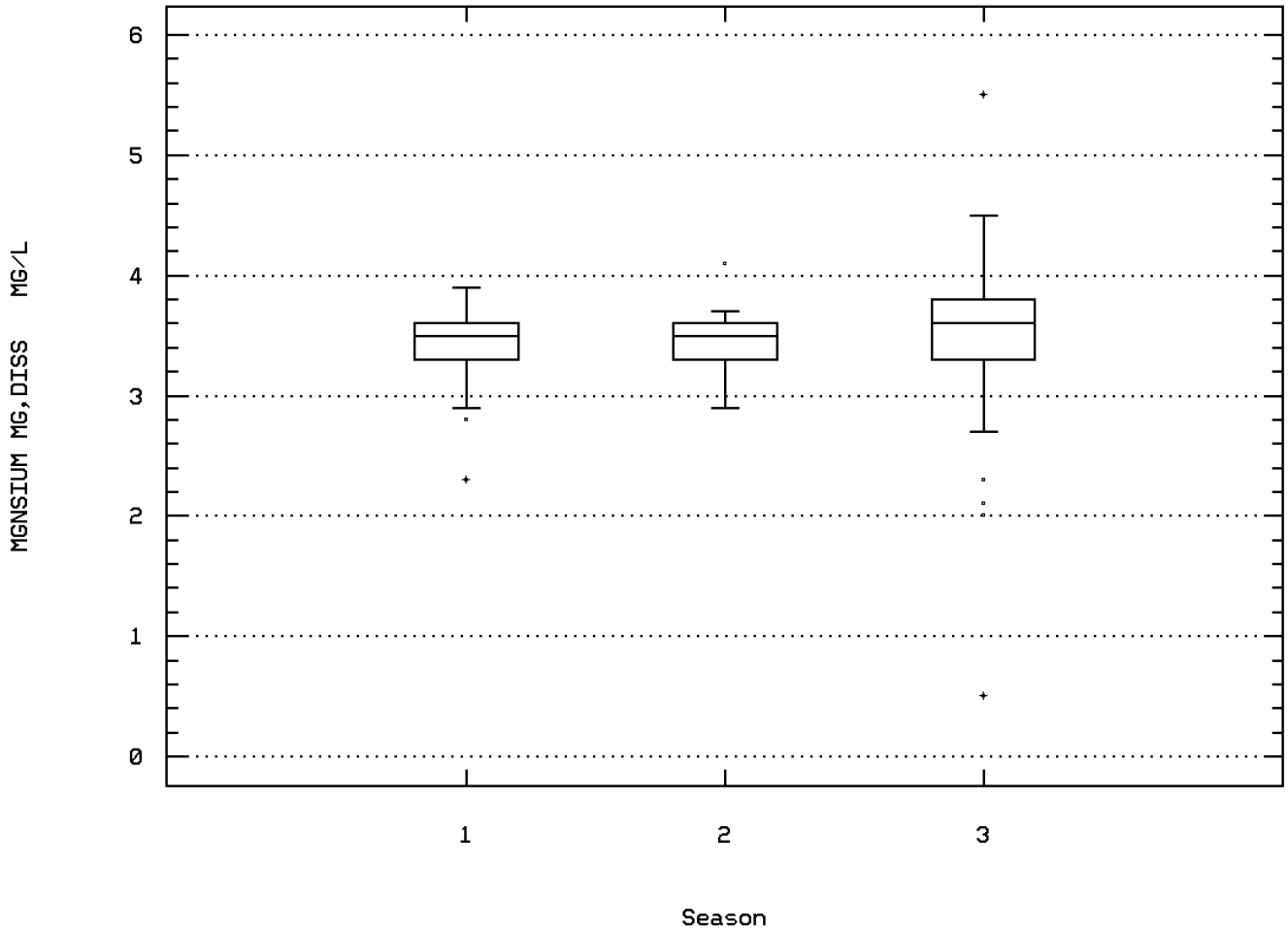
CALCIUM, DISSOLVED (MG/L AS CA)



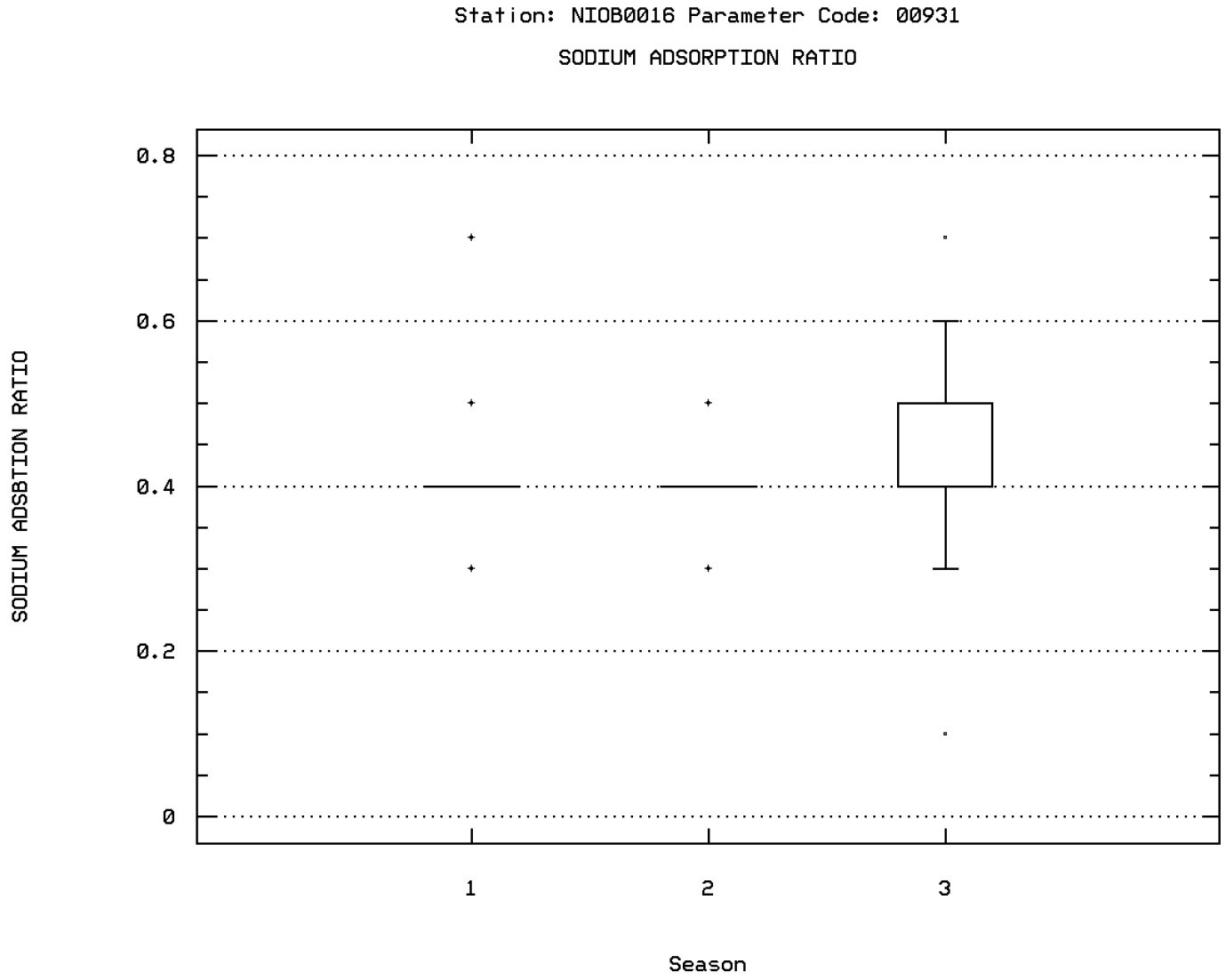
LONG PINE CREEK NEAR RIVERVIEW, NEBR.

Station: NIOB0016 Parameter Code: 00925

MAGNESIUM, DISSOLVED (MG/L AS MG)



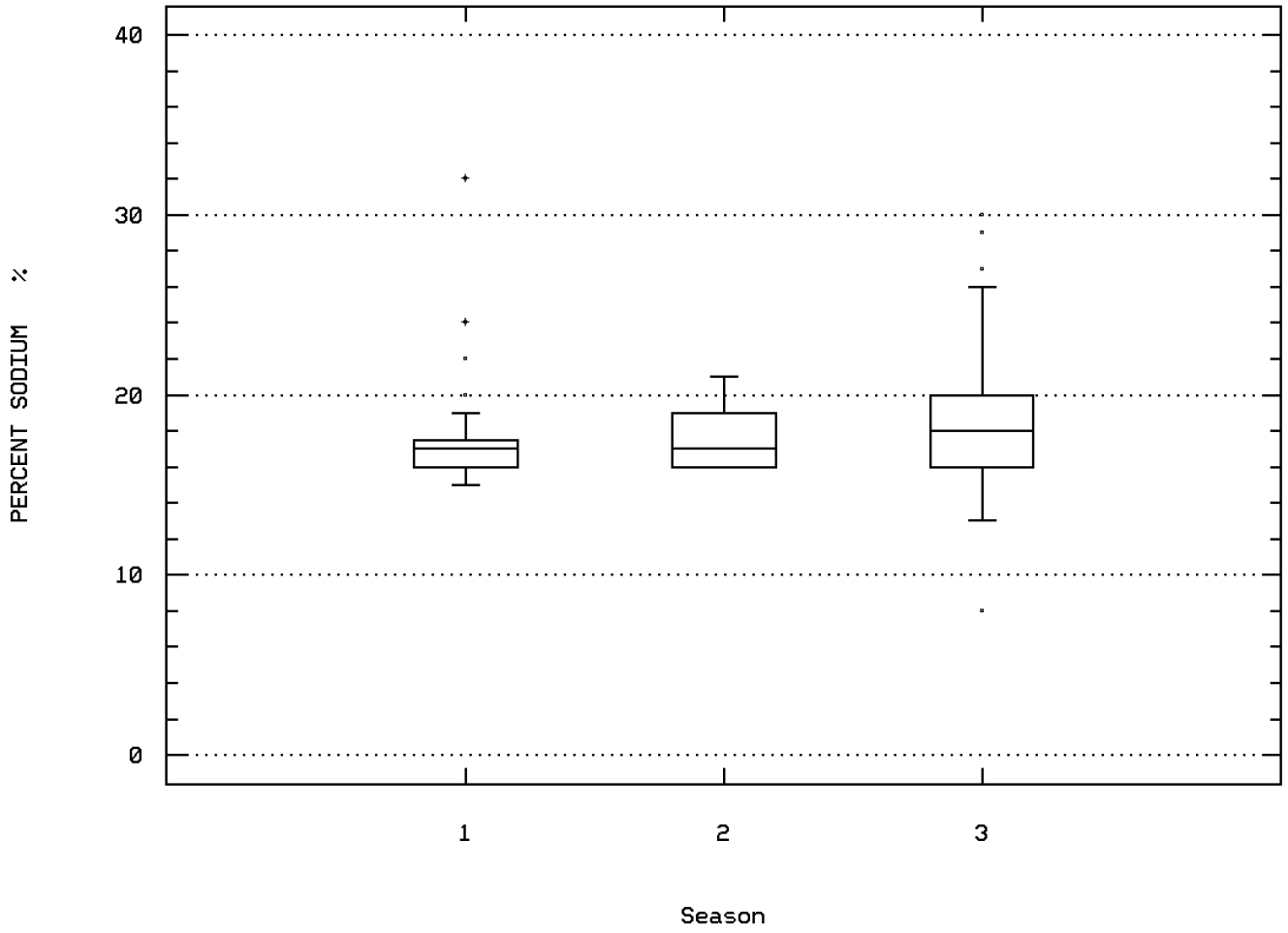
LONG PINE CREEK NEAR RIVERVIEW, NEBR.



LONG PINE CREEK NEAR RIVERVIEW, NEBR.

Station: NIOB0016 Parameter Code: 00932

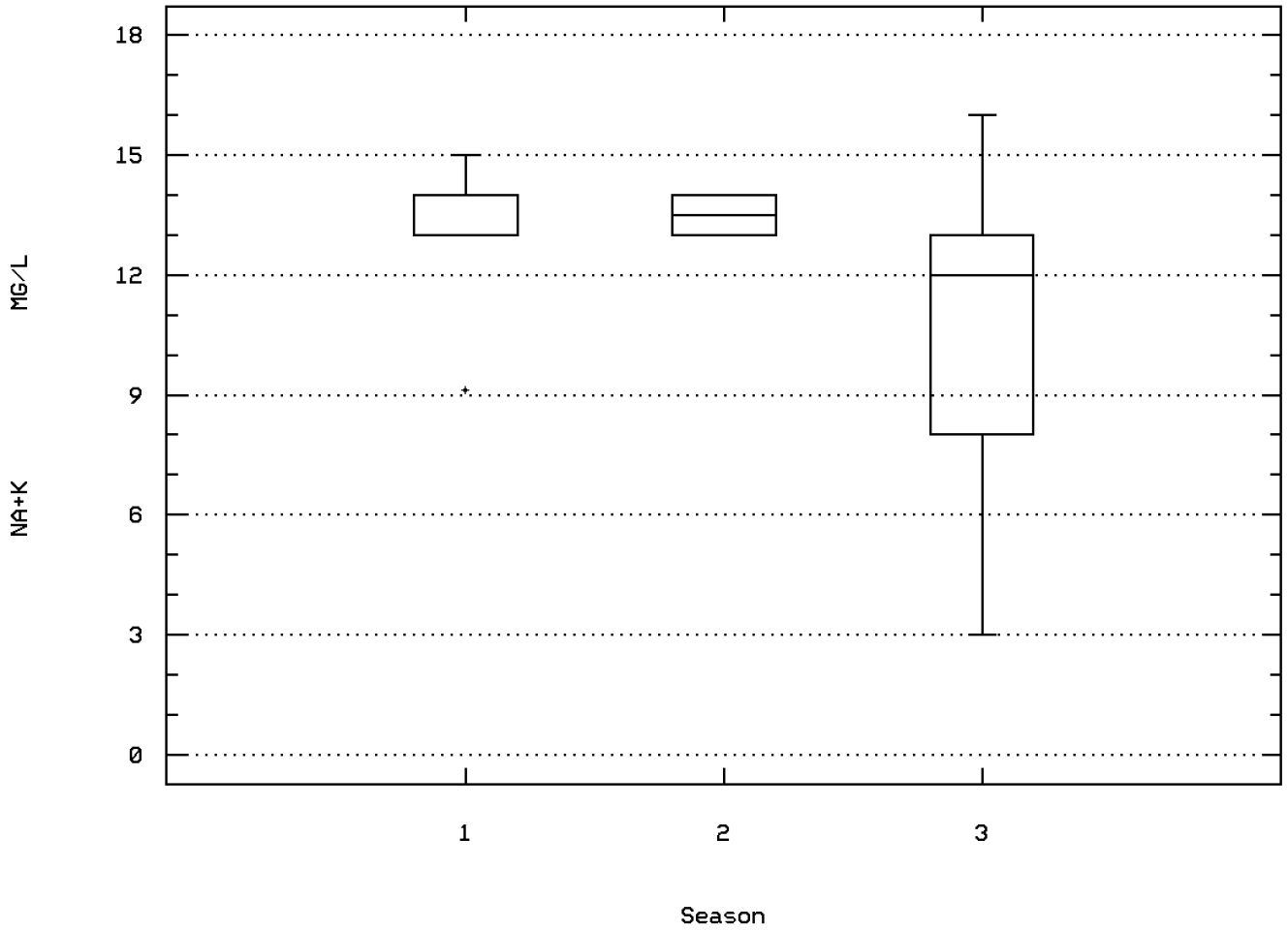
SODIUM, PERCENT



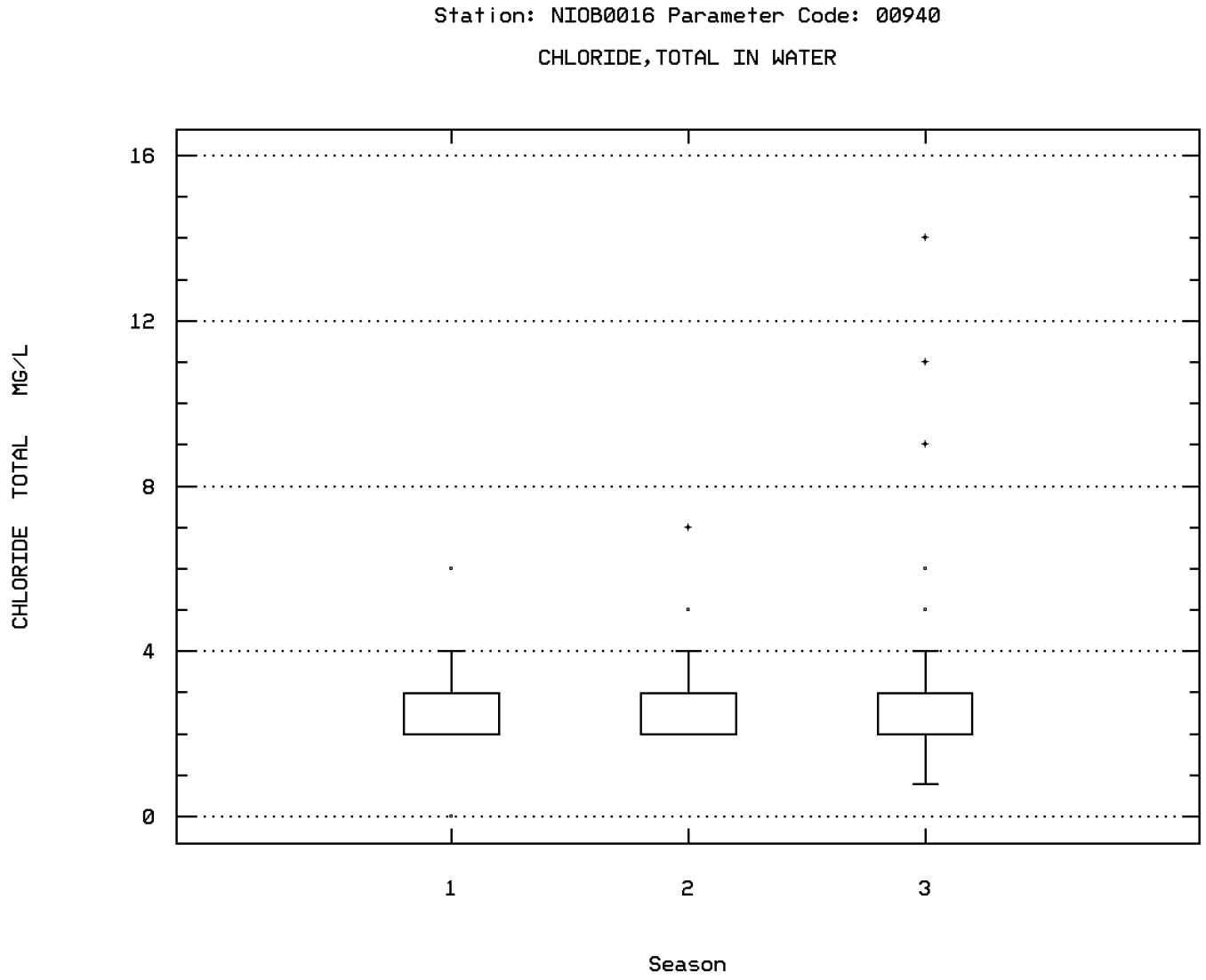
LONG PINE CREEK NEAR RIVERVIEW, NEBR.

Station: NIOB0016 Parameter Code: 00933

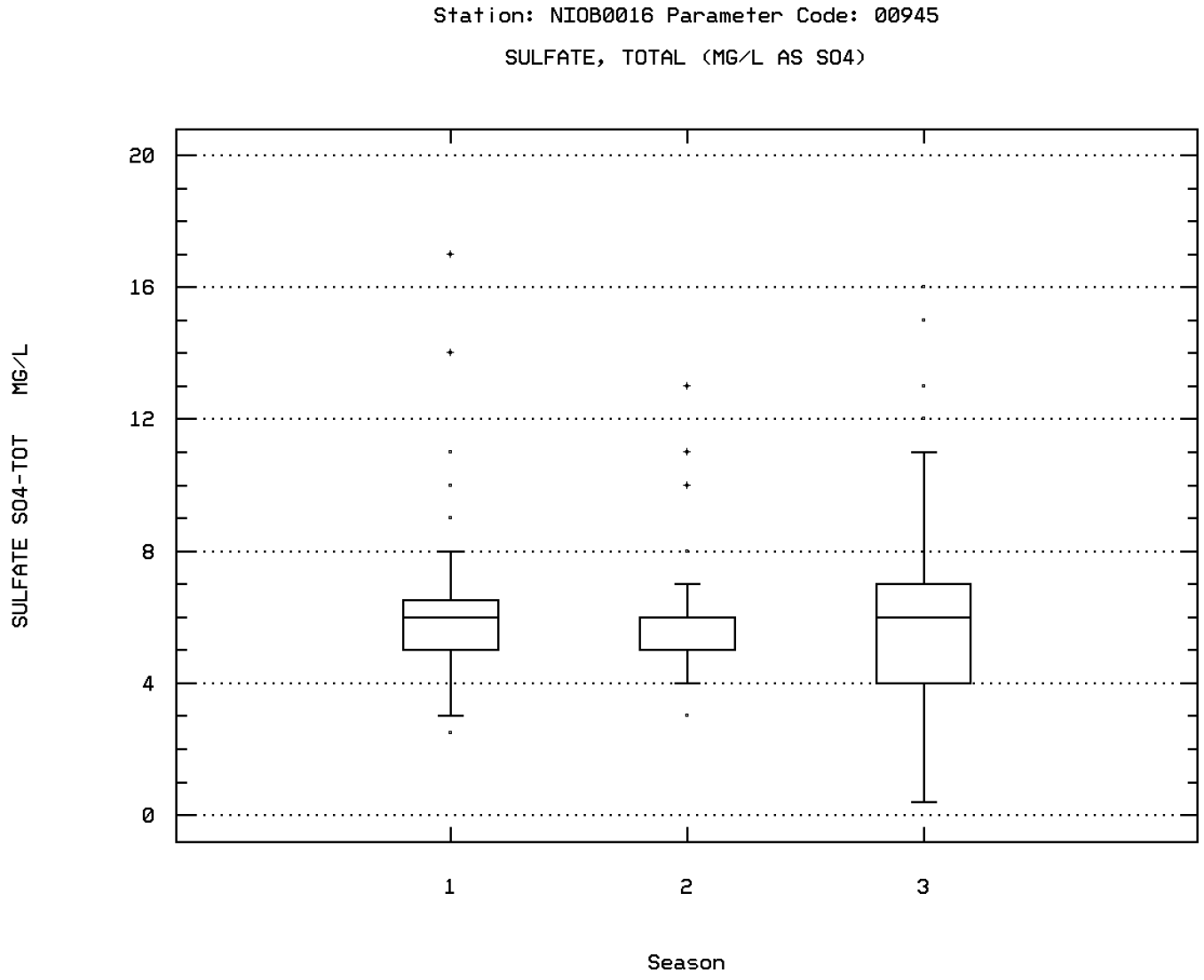
SODIUM,PLUS POTASSIUM (MG/L)



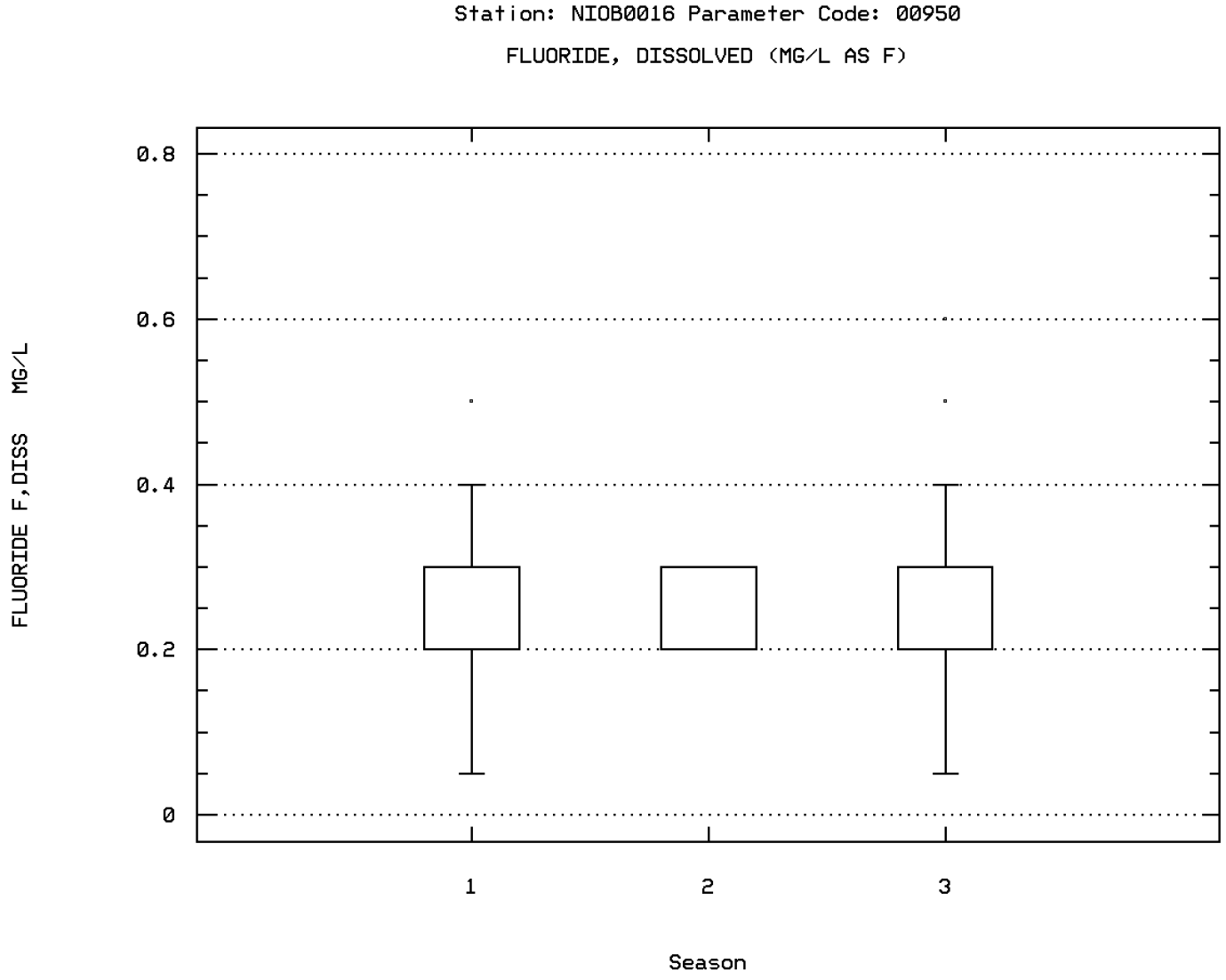
LONG PINE CREEK NEAR RIVERVIEW, NEBR.



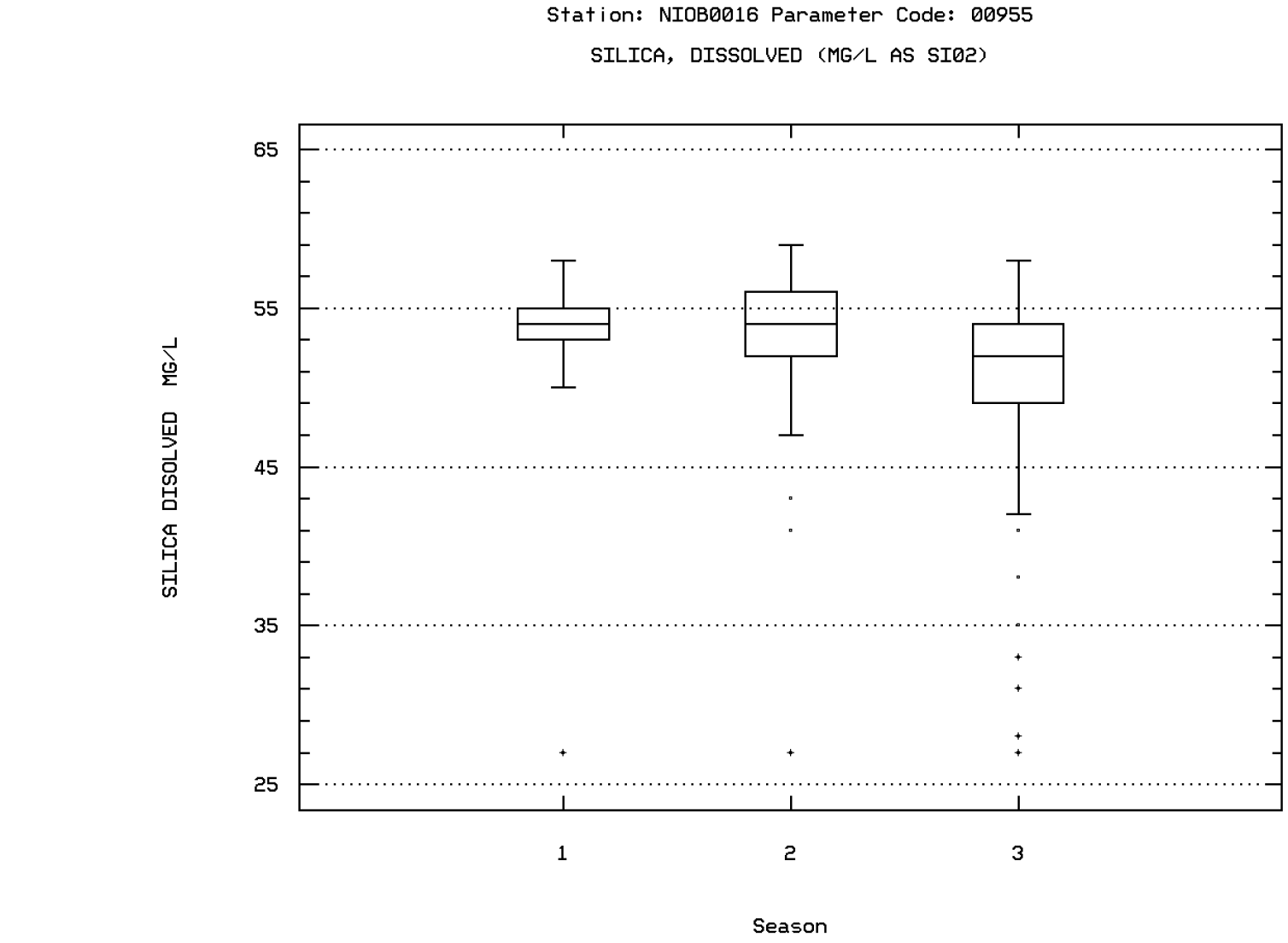
LONG PINE CREEK NEAR RIVERVIEW, NEBR.



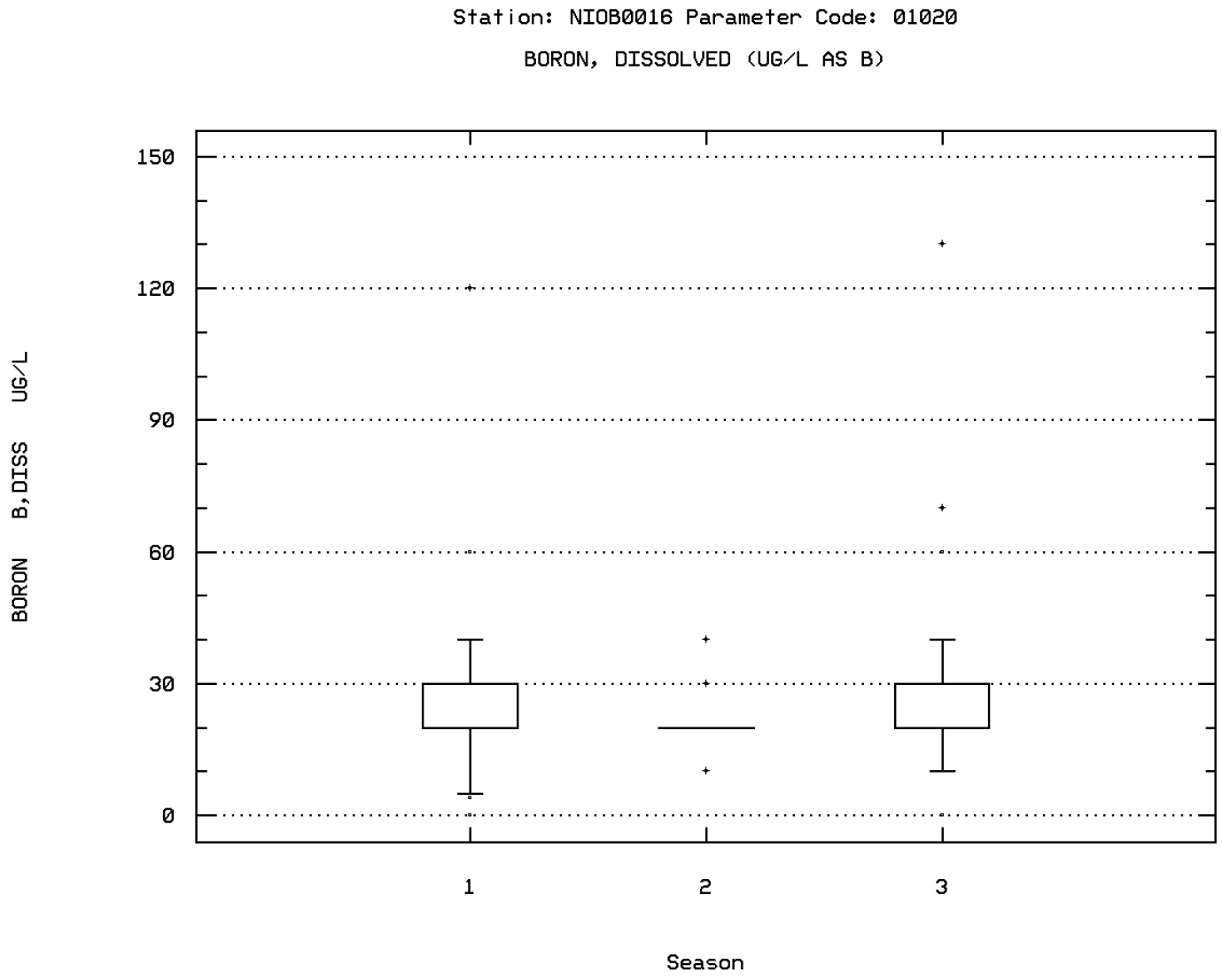
LONG PINE CREEK NEAR RIVERVIEW, NEBR.



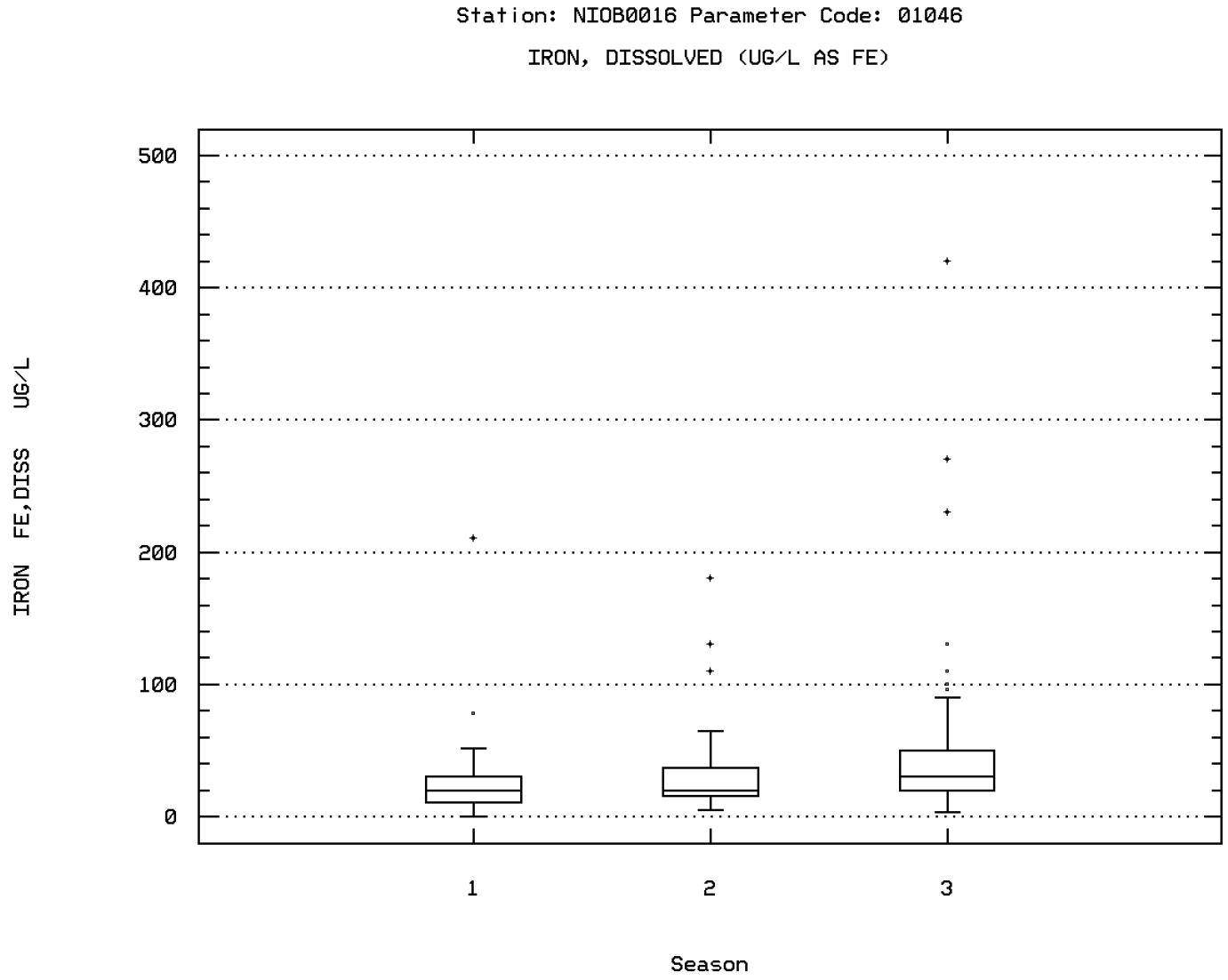
LONG PINE CREEK NEAR RIVERVIEW, NEBR.



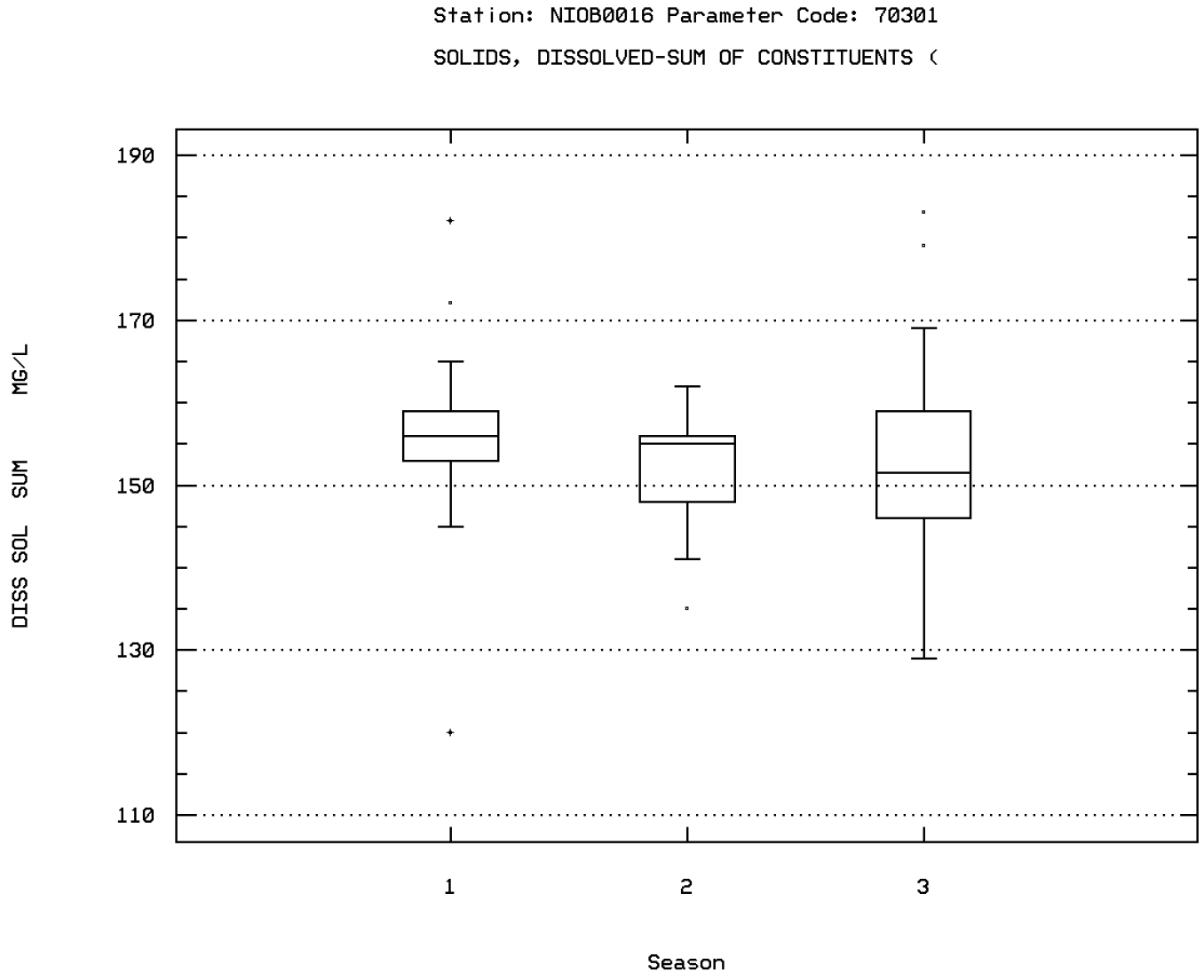
LONG PINE CREEK NEAR RIVERVIEW, NEBR.



LONG PINE CREEK NEAR RIVERVIEW, NEBR.



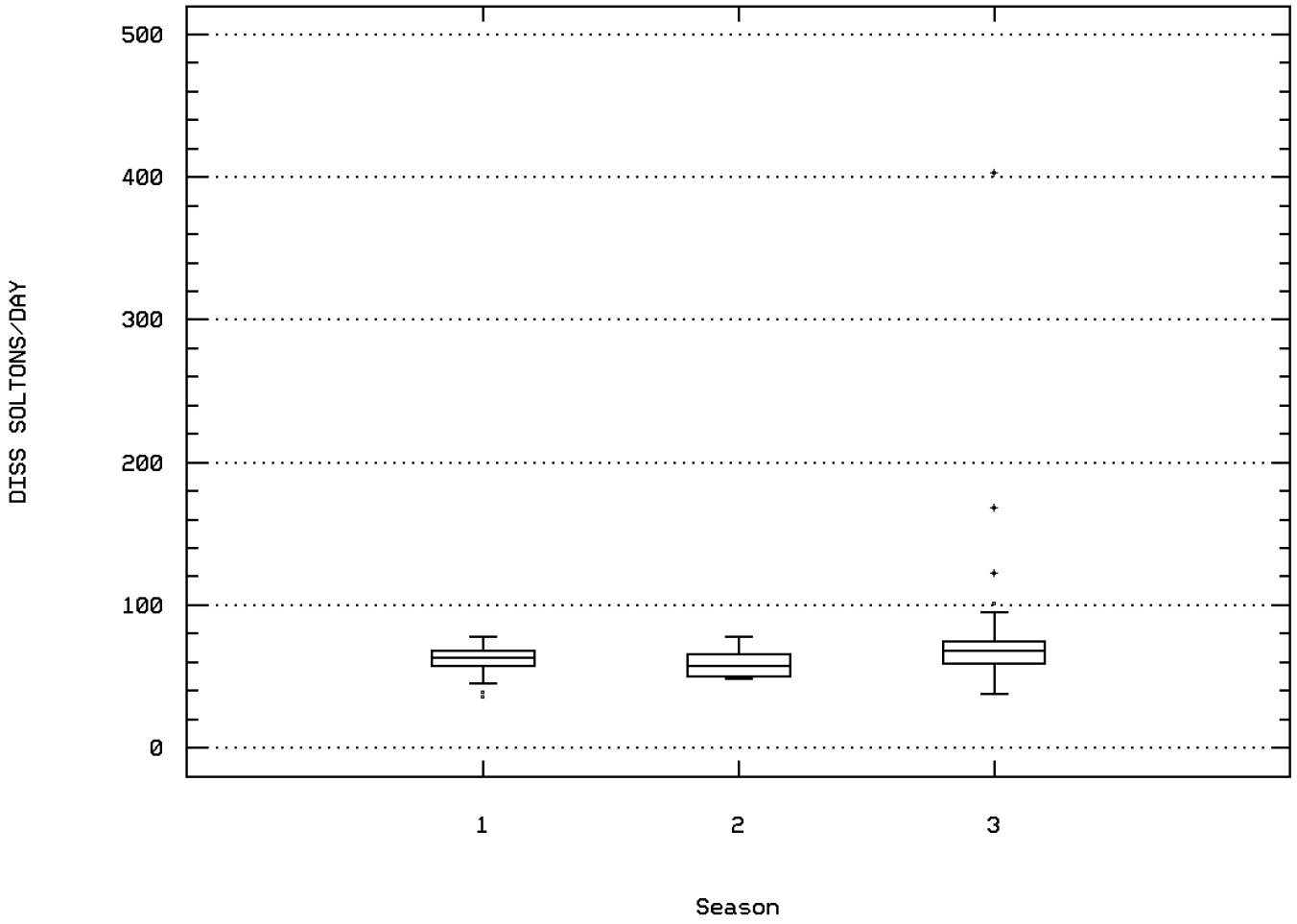
LONG PINE CREEK NEAR RIVERVIEW, NEBR.



LONG PINE CREEK NEAR RIVERVIEW, NEBR.

Station: NIOB0016 Parameter Code: 70302

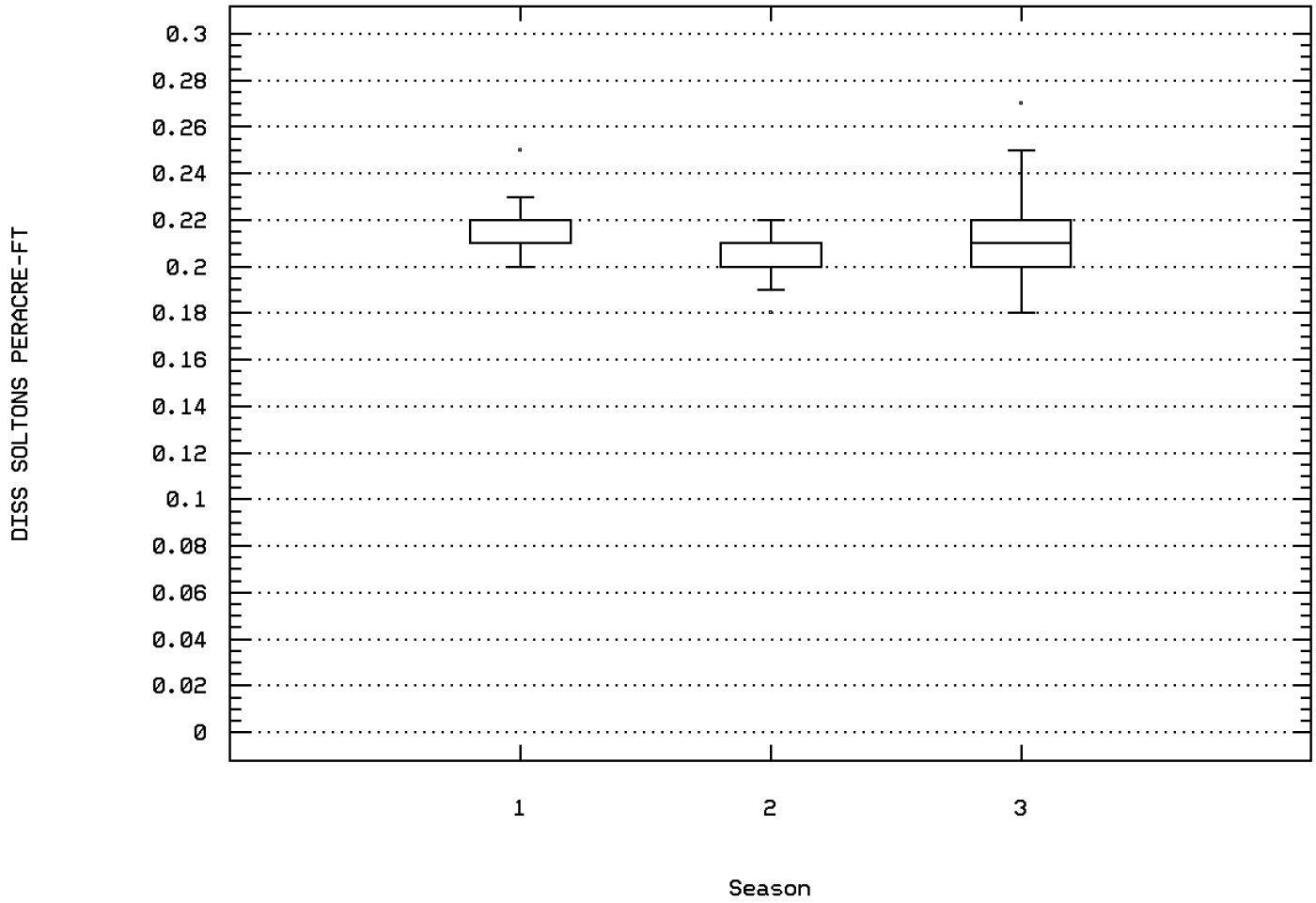
SOLIDS, DISSOLVED-TONS PER DAY



LONG PINE CREEK NEAR RIVERVIEW, NEBR.

Station: NIOB0016 Parameter Code: 70303

SOLIDS, DISSOLVED-TONS PER ACRE-FT



LONG PINE CREEK NEAR RIVERVIEW, NEBR.

Station Inventory for Station: NIOB0017

NPS Station ID: NIOB0017
LAT/LON: 42.735838/ -99.745281
Agency: 21NEB001
Date Created: 05/07/88
Location: NIOBRARA RIVER
FIPS State/County: 31017 NEBRASKA/BROWN
Station Type: /TYPA/AMBNT/STREAM/BIO
STORET Station ID(s): NI3142
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id: NENI3-20000
Minor Basin:
ECO Region: 44G
RF1 Index: 10150004
RF1 Mile Point: 0.000
Distance from RF1: 1.20
On/Off RF1:
RF3 Index: 10150004001700.00
RF3 Mile Point: 0.52
Distance from RF3: 0.06
On/Off RF3:
Description:

Parameter Inventory for Station: NIOB0017

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th

******** No Parameter Data at this Station Suitable for Statistical Analysis ********

Station Inventory for Station: NIOB0018

NPS Station ID: NIOB0018
LAT/LON: 42.667198/ -99.751477
Agency: 21NEB001
Date Created: 06/06/81
Location: BONE CREEK BLW CNFL SAND DRAW
FIPS State/County: 31017 NEBRASKA/BROWN
Station Type: /TYPA/AMBNT/STREAM/BIO
STORET Station ID(s): BN0003
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id: NENI3-12220
Minor Basin:
ECO Region: 44G
RF1 Index: 10150004
RF1 Mile Point: 0.000
Distance from RF1: 5.30
On/Off RF1:
RF3 Index: 10150004003106.41
RF3 Mile Point: 6.59
Distance from RF3: 0.47
On/Off RF3:
Description:

Parameter Inventory for Station: NIOB0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/80-07/13/83	29	10.	10.138	20.	0.	36.873	6.072	1.	4.5	15.5	18.
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/24/80-07/13/83	37	64.	72.568	192.	37.	1544.03	39.294	41.	43.5	85.	135.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/80-07/13/83	41	270.	269.195	440.	160.	1667.611	40.836	226.	249.	285.	299.2
00300	OXYGEN, DISSOLVED MG/L	04/24/80-07/13/83	27	9.4	9.93	13.2	8.1	2.158	1.469	8.18	8.8	10.8	12.26
00310	BOD, 5 DAY, 20 DEG C MG/L	04/24/80-07/13/83	38	2.75	3.461	9.	0.7	4.895	2.213	1.28	1.9	4.075	8.33
00335	COD, .025N K2CR2O7 MG/L	04/24/80-07/13/83	26	15.5	34.269	354.	1.5	4700.845	68.563	1.5	6.5	30.25	72.8
00340	COD, .25N K2CR2O7 MG/L	10/06/82-05/12/83	3	128.	136.	170.	110.	948.	30.79	**	**	**	**
00400	PH (STANDARD UNITS)	05/29/80-07/13/83	28	7.8	7.725	8.3	7.	0.146	0.382	7.19	7.425	8.1	8.2
00400	CONVERTED PH (STANDARD UNITS)	05/29/80-07/13/83	28	7.8	7.563	8.3	7.	0.173	0.416	7.19	7.425	8.1	8.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/29/80-07/13/83	28	0.016	0.027	0.1	0.005	0.001	0.025	0.006	0.008	0.038	0.065
00403	PH, LAB, STANDARD UNITS SU	04/24/80-04/24/80	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/24/80-04/24/80	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/80-04/24/80	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/80-07/13/83	29	186.	208.552	600.	21.	9178.756	95.806	156.	170.	232.	296.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/24/80-07/13/83	28	62.5	400.964	4320.	14.	902392.851	949.944	21.6	33.75	237.	1836.4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/80-07/13/83	29	0.04	0.065	0.65	0.01	0.014	0.117	0.015	0.015	0.06	0.1
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/08/81-04/08/81	1	0.13	0.13	0.13	0.13	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/24/80-07/13/83	29	1.1	1.271	2.49	0.3	0.352	0.593	0.5	0.85	1.62	2.3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/80-07/13/83	41	0.33	0.645	5.3	0.01	0.938	0.968	0.032	0.15	0.765	1.544
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	11/04/81-07/13/83	15	6.	8.673	30.8	1.9	57.186	7.562	2.5	4.	11.9	22.94
00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/24/80-07/13/83	28	29.	29.254	38.	22.	11.919	3.452	24.9	27.	30.75	34.2
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/24/80-07/13/83	28	4.45	4.318	9.	2.	2.37	1.539	2.	3.	5.	6.
00930	SODIUM, DISSOLVED (MG/L AS NA)	04/24/80-07/13/83	28	10.	9.936	18.	3.	9.642	3.105	6.9	8.	11.8	14.1
00940	CHLORIDE,TOTAL IN WATER MG/L	04/24/80-07/13/83	29	4.	5.534	12.	2.	9.142	3.024	2.5	3.	7.5	10.
01046	IRON, DISSOLVED (UG/L AS FE)	05/29/80-05/29/80	1	105.	105.	105.	105.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/24/80-07/13/83	29	860.	22961.241	600000.	27.12323388	150.69	111010.757	140.	347.5	6000.	6000.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/24/80-07/13/83	29	2.934	3.083	5.778	1.431	0.704	0.839	2.146	2.54	3.778	3.778
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1210.516								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	04/24/80-07/13/83	29	917.	28914.621	760000.	86.19785555	5738.458	140661.138	140.	275.	5450.	12500.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	04/24/80-07/13/83	29	2.962	3.082	5.881	1.934	0.734	0.857	2.146	2.439	3.734	4.097
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			1208.51								
50086	SETTLEABLE MATTER (ML/L/HR)	07/28/81-07/28/81	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/24/80-04/24/80	1	0.38	0.38	0.38	0.38	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	09/23/81-07/13/83	12	101.5	617.917	5720.	19.	2599597.902	1612.327	21.7	71.5	278.	4151.6
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	09/23/81-07/13/83	12	19.22	250.535	2620.8	2.12	558765.799	747.506	2.321	9.945	85.488	1873.536
80250	SEDIMENT PARTICLE SIZE FRACT.<.0625MM % DRY WEIGHT	04/24/80-07/13/83	27	0.3	0.817	6.2	0.05	2.454	1.566	0.084	0.2	0.5	3.66
80253	SEDIMENT PRCTL.SIZE CLASS0.25-.50MMMED SAND %DRYWT	04/24/80-07/13/83	27	77.4	71.678	91.3	39.1	216.299	14.707	45.02	59.9	82.2	86.96
80256	SEDIMENT PRTCL.SIZE CLASS>2.0MM GRAVEL % DRY WT.	04/24/80-07/13/83	27	22.4	27.49	56.2	8.25	198.789	14.099	12.86	17.6	39.6	54.3

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: NIOB0018

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	27	0	0.00	10	0	0.00	1	0	0.00	16	0	0.00			
00400	PH	Other-Hi Lim.	9.	28	0	0.00	10	0	0.00	2	0	0.00	16	0	0.00			
		Other-Lo Lim.	6.5	28	0	0.00	10	0	0.00	2	0	0.00	16	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			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	29	0	0.00	10	0	0.00	2	0	0.00	17	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	29	0	0.00	10	0	0.00	2	0	0.00	17	0	0.00			
		Drinking Water	250.	29	0	0.00	10	0	0.00	2	0	0.00	17	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	29	24	0.83	10	7	0.70	2	2	1.00	17	15	0.88			

& - 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: NIOB0019

NPS Station ID: NIOB0019
LAT/LON: 42.667198/ -99.751477
Agency: 21NEB001
Date Created: 10/08/83
Location: BONE CREEK BLW CNFL SAND DRAW
FIPS State/County: 31017 NEBRASKA/BROWN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BNR003
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 0
Water Body Id:
Minor Basin: NIOBRARA
ECO Region:
RF1 Index: 10150004028
RF1 Mile Point: 3.070
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10150004297000.00
RF3 Mile Point: 0.34
Distance from RF3: 0.03
On/Off RF3:
Description:
T31N R21N SEC10 SE1/4 BELOW CONFLUENCE OF SAND DRAW ON HWY 183
RAINFALL COLLECTION SITES:
LOCATION 1 LPR001
LOCATION 2 LPR008
LOCATION 3 AINSWORTH AIRPORT

Parameter Inventory for Station: NIOB0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/13/82-06/27/83	51	175.	166.176	310.	36.	4702.428	68.574	72.6	104.	221.	253.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/13/82-06/27/83	32	275.5	301.969	573.	203.	7579.128	87.058	220.1	241.5	366.5	423.1
00121	PRECIPITATION,CUMULATIVE AT GIVEN TIME,LOC.3(IN)	05/13/82-05/14/82	15	0.58	0.513	0.58	0.25	0.017	0.13	0.25	0.52	0.58	0.58
00122	PRECIPITATION,CUMULATIVE AT GIVEN TIME,LOC.2(IN)	05/13/82-05/14/82	15	0.88	0.76	0.88	0.58	0.02	0.142	0.58	0.58	0.88	0.88
00123	PRECIPITATION,CUMULATIVE AT GIVEN TIME,LOC.1(IN)	05/13/82-05/14/82	15	1.4	1.109	1.4	0.63	0.131	0.362	0.63	0.63	1.4	1.4
00127	PRECIPITATION,INTENSITY AT GIVEN TIME,LOC.3 IN/HR	05/13/82-05/14/82	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00128	PRECIPITATION,INTENSITY AT GIVEN TIME,LOC.2 IN/HR	05/13/82-05/14/82	15	0.	0.013	0.1	0.	0.001	0.031	0.	0.	0.	0.085
00129	PRECIPITATION,INTENSITY AT GIVEN TIME,LOC.1 IN/HR	05/13/82-05/14/82	15	0.	0.037	0.325	0.	0.008	0.092	0.	0.	0.	0.235
00310	BOD, 5 DAY, 20 DEG C MG/L	05/13/82-06/27/83	20	20.25	30.99	144.	1.	1109.245	33.305	4.06	10.375	39.25	73.05
00403	PH, LAB, STANDARD UNITS SU	05/13/82-06/27/83	32	6.8	6.841	7.3	6.5	0.055	0.234	6.5	6.625	7.	7.2
00403	CONVERTED PH, LAB, STANDARD UNITS	05/13/82-06/27/83	32	6.8	6.784	7.3	6.5	0.058	0.241	6.5	6.625	7.	7.2
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/13/82-06/27/83	32	0.158	0.165	0.316	0.05	0.007	0.082	0.063	0.1	0.238	0.316
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/13/82-06/27/83	32	990.	1264.938	4180.	420.	876214.19	936.063	460.	590.	1590.	3054.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/13/82-06/27/83	32	0.48	0.723	3.18	0.05	0.558	0.747	0.133	0.243	0.96	1.814
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/13/82-06/27/83	32	0.885	0.945	1.68	0.14	0.12	0.346	0.52	0.773	1.115	1.51
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/13/82-06/27/83	32	2.565	3.486	12.	0.69	6.989	2.644	0.845	1.548	5.18	6.97
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/13/82-06/27/83	32	20.35	23.034	67.	7.	133.149	11.539	11.74	16.925	25.575	38.55
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/13/82-05/14/82	11	36.4	38.5	50.2	33.5	32.752	5.723	33.52	34.6	42.6	49.6
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/13/82-05/14/82	11	6.3	6.782	9.7	5.	2.674	1.635	5.02	5.2	8.2	9.46
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/13/82-05/14/82	11	20.4	18.673	23.8	11.9	18.078	4.252	11.96	14.7	22.	23.52
00940	CHLORIDE,TOTAL IN WATER MG/L	05/13/82-06/27/83	32	14.5	15.969	36.	2.5	72.854	8.535	5.3	10.25	22.5	27.7

** - 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: NIOB0019

Parameter				Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Other-Hi Lim.	9.	32	0	0.00							32	0	0.00			
		Other-Lo Lim.	6.5	32	4	0.13							32	4	0.13			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	32	0	0.00							32	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	32	0	0.00							32	0	0.00			
		Drinking Water	250.	32	0	0.00							32	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: NIOB0020

NPS Station ID: NIOB0020
LAT/LON: 42.672503/ -99.767503
Agency: 1117MBR
Date Created: 12/15/77
Location: BONE CREEK AT BRIDGE ON US 183
FIPS State/County: 31017 NEBRASKA/BROWN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 003579
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 0
Water Body Id:
Minor Basin: LONG PINE CREEK
ECO Region:
RF1 Index: 10150004028
RF1 Mile Point: 4.280
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10150004002901.90
RF3 Mile Point: 1.93
Distance from RF3: 0.01
On/Off RF3:
Description:
COUNTY: BROWN, CITY: AINSWORTH, LAMS STATION CODE: 63000000 SAMPLING POINT LOCATED IN SEC 10 T31N R21W

Parameter Inventory for Station: NIOB0020

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th

******** No Parameter Data Available for this Station ********

Station Inventory for Station: NIOB0021

NPS Station ID: NIOB0021
LAT/LON: 42.671116/ -99.768337
Agency: 112WRD
Date Created: / /
Location: BONE CREEK NEAR LONG PINE, NEBR
FIPS State/County: 31017 NEBRASKA/BROWN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 06463350
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10150004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10150004003008.40
RF3 Mile Point: 8.40
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: NIOB0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/68-07/26/84	32	19.25	17.734	30.	1.	72.887	8.537	7.	9.5	25.75	28.35
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/73-07/26/84	24	22.5	21.188	34.5	-2.	120.779	10.99	6.75	14.25	32.	33.75
00060	FLOW, STREAM, MEAN DAILY CFS	10/31/68-05/08/74	10	33.5	36.8	63.	19.	161.956	12.726	20.1	31.5	40.75	62.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/08/74-07/26/84	23	51.	74.217	472.	32.	8014.632	89.524	34.8	42.	66.	113.2
00080	COLOR (PLATINUM-COBALT UNITS)	10/31/68-05/21/75	12	8.5	22.167	160.	3.	1920.515	43.824	3.3	5.5	17.5	118.9
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/31/68-07/26/84	32	229.5	227.938	260.	188.	335.286	18.311	200.1	217.	238.75	256.7
00400	PH (STANDARD UNITS)	10/31/68-07/26/84	31	8.	7.927	8.5	7.25	0.11	0.332	7.4	7.7	8.1	8.38
00400	CONVERTED PH (STANDARD UNITS)	10/31/68-07/26/84	31	8.	7.798	8.5	7.25	0.128	0.357	7.4	7.7	8.1	8.38
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/31/68-07/26/84	31	0.01	0.016	0.056	0.003	0.	0.014	0.004	0.008	0.02	0.04
00403	PH, LAB, STANDARD UNITS SU	10/23/80-07/26/84	12	8.05	7.992	8.4	7.4	0.108	0.329	7.46	7.725	8.275	8.4
00403	CONVERTED PH, LAB, STANDARD UNITS	10/23/80-07/26/84	12	8.047	7.875	8.4	7.4	0.123	0.351	7.46	7.725	8.275	8.4
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/80-07/26/84	12	0.009	0.013	0.04	0.004	0.	0.011	0.004	0.005	0.019	0.035
00405	CARBON DIOXIDE (MG/L AS CO2)	04/24/73-09/26/79	9	2.	2.222	3.6	1.4	0.612	0.782	1.4	1.55	3.	3.6
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/31/68-07/29/80	19	98.	98.895	110.	90.	27.544	5.248	92.	95.	101.	109.
00440	BICARBONATE ION (MG/L AS HCO3)	10/31/68-09/26/79	17	120.	120.118	133.	110.	33.86	5.819	111.6	115.5	123.	128.2
00445	CARBONATE ION (MG/L AS CO3)	10/31/68-09/26/79	17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00600	NITROGEN, TOTAL (MG/L AS N)	10/31/68-10/31/68	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/10/82-08/10/82	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/05/69-05/04/71	4	0.65	0.525	0.8	0.	0.129	0.359	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/09/71-07/26/84	27	1.3	1.337	2.5	0.4	0.259	0.509	0.7	1.	1.5	2.4
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/31/68-10/31/68	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	10/31/68-10/31/68	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/05/69-09/26/79	12	0.315	0.326	0.49	0.22	0.006	0.08	0.226	0.263	0.38	0.472
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/31/68-11/16/82	27	87.	87.37	100.	69.	47.473	6.89	78.8	84.	92.	96.8
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/31/68-07/29/80	19	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/68-07/26/84	32	28.	27.75	34.	19.	6.968	2.64	25.	27.	29.	30.7
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/68-07/26/84	32	4.35	4.291	5.3	2.1	0.36	0.6	3.66	4.025	4.675	4.97
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/68-07/26/84	32	9.95	9.938	14.	7.4	1.771	1.331	8.11	9.425	10.	12.
00931	SODIUM ADSORPTION RATIO	10/31/68-11/16/82	27	0.5	0.481	0.7	0.4	0.005	0.074	0.4	0.4	0.5	0.6
00932	SODIUM, PERCENT	10/31/68-11/16/82	26	18.	18.346	28.	14.	6.555	2.56	15.7	17.	19.	20.3
00933	SODIUM,PLUS POTASSIUM (MG/L)	06/05/79-09/26/79	3	18.	18.667	20.	18.	1.333	1.155	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/68-07/26/84	31	7.4	7.694	14.	4.3	2.949	1.717	6.1	6.6	8.5	9.4
00940	CHLORIDE,TOTAL IN WATER MG/L	10/31/68-07/26/84	32	4.	4.188	7.	2.	1.899	1.378	2.3	3.	5.	6.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/68-07/26/84	32	6.	6.963	18.	0.8	11.964	3.459	2.65	5.	9.	11.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/68-07/26/84	27	0.3	0.33	0.6	0.2	0.009	0.095	0.2	0.3	0.4	0.5
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/68-07/26/84	27	50.	48.704	59.	29.	42.063	6.486	41.	46.	52.	55.6
01020	BORON, DISSOLVED (UG/L AS B)	10/31/68-05/21/75	12	40.	43.75	91.	20.	333.477	18.261	23.	31.	50.	81.7
01046	IRON, DISSOLVED (UG/L AS FE)	10/31/68-05/21/75	12	50.	62.833	180.	10.	2696.333	51.926	13.	22.5	88.	168.

** - 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: NIOB0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01055	MANGANESE, TOTAL (UG/L AS MN)	10/31/68-08/05/69	2	18.5	18.5	30.	7.	264.5	16.263	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/20/70-05/21/75	10 ##	5.	13.2	70.	0.	416.844	20.417	0.5	5.	12.75	64.5
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/31/68-09/26/79	6	181.	183.333	217.	163.	329.467	18.151	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/31/68-11/16/82	21	175.	174.762	200.	154.	144.59	12.025	158.2	165.5	184.	189.4
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/31/68-11/16/82	21	19.2	20.733	42.8	8.99	59.962	7.744	14.94	15.6	23.8	35.02
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/31/68-11/16/82	21	0.24	0.242	0.3	0.21	0.	0.02	0.22	0.23	0.25	0.268
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	08/10/82-08/10/82	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/31/68-05/04/71	5	2.6	2.26	3.4	0.	1.858	1.363	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	06/02/81-06/02/81	1	5.1	5.1	5.1	5.1	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

EPA Water Quality Criteria Analysis for Station: NIOB0021

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	31	0	0.00	14	0	0.00				17	0	0.00			
		Other-Lo Lim.	6.5	31	0	0.00	14	0	0.00				17	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	12	0	0.00	5	0	0.00				7	0	0.00			
		Other-Lo Lim.	6.5	12	0	0.00	5	0	0.00				7	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	4	0	0.00	2	0	0.00				2	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	27	0	0.00	12	0	0.00				15	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	32	0	0.00	15	0	0.00				17	0	0.00			
		Drinking Water	250.	32	0	0.00	15	0	0.00				17	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	32	0	0.00	15	0	0.00				17	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	27	0	0.00	12	0	0.00				15	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	5	0	0.00	3	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

Seasonal Analysis for Season #1: 8/01 to 1/14 - Station NIOB0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/68-07/26/84	15	15.	15.7	30.	1.	94.921	9.743	2.2	7.	25.	30.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/73-07/26/84	11	21.5	18.409	33.5	-2.	187.091	13.678	1.5	8.	32.5	33.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/08/74-07/26/84	10	47.	46.3	66.	32.	89.567	9.464	32.4	39.75	51.	64.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/31/68-07/26/84	15	234.	232.2	257.	197.	318.171	17.837	201.8	218.	240.	257.
00400	PH (STANDARD UNITS)	10/31/68-07/26/84	14	7.95	7.839	8.3	7.25	0.104	0.323	7.275	7.625	8.063	8.225
00400	CONVERTED PH (STANDARD UNITS)	10/31/68-07/26/84	14	7.947	7.716	8.3	7.25	0.121	0.347	7.275	7.625	8.063	8.225
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/31/68-07/26/84	14	0.011	0.019	0.056	0.005	0.	0.017	0.006	0.009	0.025	0.053
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/31/68-07/29/80	9	100.	99.333	104.	95.	7.	2.646	95.	97.5	101.	104.
00440	BICARBONATE ION (MG/L AS HCO3)	10/31/68-09/26/79	9	122.	121.222	127.	116.	10.194	3.193	116.	119.	123.	127.
00445	CARBONATE ION (MG/L AS CO3)	10/31/68-09/26/79	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/09/71-07/26/84	12	1.4	1.567	2.4	1.1	0.193	0.44	1.1	1.3	1.775	2.4
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/31/68-11/16/82	14	88.5	88.5	100.	78.	37.192	6.099	78.5	85.	92.25	98.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/31/68-07/29/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/68-07/26/84	15	28.	28.467	34.	25.	4.838	2.2	25.6	27.	30.	32.2
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/68-07/26/84	15	4.4	4.433	5.3	3.8	0.23	0.479	3.8	4.	4.7	5.24
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/68-07/26/84	15	10.	10.073	12.	7.9	1.186	1.089	8.38	9.7	11.	12.
00931	SODIUM ADSORPTION RATIO	10/31/68-11/16/82	14	0.5	0.479	0.6	0.4	0.003	0.058	0.4	0.4	0.5	0.55
00932	SODIUM, PERCENT	10/31/68-11/16/82	14	18.	18.143	21.	16.	1.978	1.406	16.	17.	19.	20.5
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/68-07/26/84	15	7.5	7.413	9.5	4.3	1.677	1.295	5.26	6.6	8.4	8.96
00940	CHLORIDE,TOTAL IN WATER MG/L	10/31/68-07/26/84	15	4.	4.067	6.	2.	1.495	1.223	2.6	3.	5.	6.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/68-07/26/84	15	7.	7.333	11.	5.	4.095	2.024	5.	6.	9.	11.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/68-07/26/84	12	0.3	0.317	0.4	0.2	0.005	0.072	0.2	0.3	0.4	0.4
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/68-07/26/84	12	52.5	52.5	59.	45.	16.091	4.011	45.6	51.	54.75	58.7
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/31/68-11/16/82	11	180.	180.909	200.	158.	113.891	10.672	161.2	175.	187.	198.
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/31/68-11/16/82	11	18.1	19.154	27.5	8.99	30.947	5.563	10.172	15.6	24.1	27.04
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/31/68-11/16/82	11	0.25	0.246	0.27	0.22	0.	0.013	0.224	0.24	0.25	0.268

** - 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: 3/10 to 7/31 - Station NIOB0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/68-07/26/84	17	22.	19.529	28.5	7.5	50.858	7.132	8.7	12.5	26.	28.1
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/73-07/26/84	13	25.	23.538	34.5	12.	62.519	7.907	12.8	15.5	31.	34.3
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/08/74-07/26/84	13	56.	95.692	472.	34.	13477.231	116.091	37.2	43.5	97.5	332.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/31/68-07/26/84	17	226.	224.176	260.	188.	339.154	18.416	196.	211.	238.	248.
00400	PH (STANDARD UNITS)	10/31/68-07/26/84	17	8.	8.	8.5	7.4	0.11	0.332	7.48	7.7	8.25	8.5
00400	CONVERTED PH (STANDARD UNITS)	10/31/68-07/26/84	17	8.	7.88	8.5	7.4	0.125	0.354	7.48	7.7	8.25	8.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/31/68-07/26/84	17	0.01	0.013	0.04	0.003	0.	0.011	0.003	0.006	0.02	0.033
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/31/68-07/29/80	10	97.	98.5	110.	90.	48.5	6.964	90.2	92.75	104.5	109.9
00440	BICARBONATE ION (MG/L AS HCO3)	10/31/68-09/26/79	8	117.5	118.875	133.	110.	62.411	7.9	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/31/68-09/26/79	8	0.	0.	0.	0.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/09/71-07/26/84	15	1.1	1.153	2.5	0.4	0.247	0.497	0.58	0.9	1.4	2.02
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/31/68-11/16/82	13	86.	86.154	100.	69.	59.474	7.712	73.4	81.5	91.5	98.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/31/68-07/29/80	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/68-07/26/84	17	27.	27.118	33.	19.	8.36	2.891	23.	26.5	28.5	30.6
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/68-07/26/84	17	4.3	4.165	4.9	2.1	0.46	0.678	2.98	4.	4.6	4.74
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/68-07/26/84	17	9.9	9.818	14.	7.4	2.36	1.536	7.72	8.75	10.	12.4
00931	SODIUM ADSORPTION RATIO	10/31/68-11/16/82	13	0.5	0.485	0.7	0.4	0.008	0.09	0.4	0.4	0.5	0.66
00932	SODIUM, PERCENT	10/31/68-11/16/82	12	18.5	18.583	28.	14.	12.447	3.528	14.3	16.25	19.75	25.6
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/68-07/26/84	16	7.35	7.956	14.	6.1	4.181	2.045	6.24	6.575	8.675	11.9
00940	CHLORIDE,TOTAL IN WATER MG/L	10/31/68-07/26/84	17	4.	4.294	7.	2.	2.346	1.532	2.	3.	5.5	7.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/68-07/26/84	17	5.	6.635	18.	0.8	19.355	4.399	2.16	3.	9.5	13.2
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/68-07/26/84	15	0.3	0.34	0.6	0.2	0.013	0.112	0.2	0.3	0.4	0.54
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/68-07/26/84	15	48.	45.667	52.	29.	43.238	6.576	31.4	44.	50.	51.4
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/31/68-11/16/82	10	166.5	168.	184.	154.	97.778	9.888	154.5	159.75	174.25	184.
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/31/68-11/16/82	10	19.7	22.47	42.8	15.1	92.462	9.616	15.11	15.575	26.1	42.21

** - 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: 3/10 to 7/31 - Station NIOB0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/31/68-11/16/82	10	0.23	0.237	0.3	0.21	0.001	0.025	0.211	0.22	0.25	0.295

** - 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: NIOB0022

NPS Station ID: NIOB0022
LAT/LON: 42.751392/ -99.845838
Agency: 112WRD
Date Created: 07/18/81
Location: NIOBRARA RIVER AT MEADVILLE NE
FIPS State/County: 31103 NEBRASKA/KEYA PAHA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 06463000
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10150004
RF1 Mile Point: 0.000
Distance from RF1: 1.10
On/Off RF1:
RF3 Index: 10150004003300.00
RF3 Mile Point: 1.56
Distance from RF3: 0.10
On/Off RF3:
Description:

Parameter Inventory for Station: NIOB0022

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/17/50-09/25/52	26	20.5	19.462	32.	0.5	71.418	8.451	4.5	15.5	25.	30.1
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/18/50-10/01/52	65	1080.	1370.954	4060.	715.	525521.138	724.928	810.	891.	1455.	2440.
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	09/07/51-05/25/52	4	18.	18.	32.	4.	226.667	15.055	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	03/28/51-05/25/52	7	13.	19.571	38.	5.	216.286	14.707	**	**	**	**
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	09/07/51-05/25/52	4	28.	26.75	46.	5.	498.25	22.322	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	03/28/51-05/25/52	7	21.	28.	50.	9.	312.	17.664	**	**	**	**
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	09/07/51-05/25/52	4	35.5	34.5	54.	13.	485.667	22.038	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	04/18/50-10/01/52	41	24.	25.707	64.	6.	182.362	13.504	10.2	17.	30.	49.6
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	04/18/50-10/01/52	41	52.	51.39	78.	18.	224.294	14.976	28.2	44.5	59.	75.2
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	04/18/50-10/01/52	41	91.	87.659	97.	58.	82.18	9.065	74.2	84.	94.	95.8
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	04/18/50-10/01/52	41	100.	99.146	100.	84.	6.428	2.535	98.	99.	100.	100.
70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	07/08/50-08/29/52	15	100.	99.467	100.	92.	4.267	2.066	96.8	100.	100.	100.
70347	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 2.00MM	07/19/52-07/19/52	1	95.	95.	95.	95.	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/18/50-10/01/52	41	1120.	1542.171	4760.	488.	977428.795	988.65	719.8	866.	1900.	2980.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/18/50-10/01/52	41	3020.	4575.61	27300.	1140.	22290195.244	4721.249	1572.	1900.	5190.	9312.
80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	10/18/50-09/25/52	24	0.	0.375	2.	0.	0.332	0.576	0.	0.	1.	1.
80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	10/18/50-09/25/52	24	4.	4.	13.	1.	6.	2.449	2.	2.25	4.75	7.
80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	10/18/50-09/25/52	24	45.	45.	71.	15.	204.696	14.307	20.	39.	55.5	66.5
80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	10/18/50-09/25/52	24	92.5	90.458	100.	61.	88.172	9.39	74.5	87.25	97.	98.
80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	10/18/50-09/25/52	23	99.	96.217	100.	76.	34.451	5.869	86.8	94.	100.	100.
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	10/18/50-09/25/52	15	98.	96.	100.	81.	26.286	5.127	85.8	96.	99.	100.
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	10/18/50-09/25/52	13	99.	97.	100.	86.	14.5	3.808	89.2	95.5	99.	99.6

** - 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

********** No EPA Water Quality Criteria exist to compare against the data at this station. **********

Station Inventory for Station: NIOB0023

NPS Station ID: NIOB0023
LAT/LON: 42.762504/ -99.851392
Agency: 21NEB001
Date Created: 01/25/92
Location: ROCK CREEK
FIPS State/County: 31103 NEBRASKA/KEYA PAHA
Station Type: /TYPA/AMBNT/STREAM/BIO
STORET Station ID(s): NI3188
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id: NENI3-12800
Minor Basin:
ECO Region: 44G
RF1 Index: 10150004
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 10150004186400.00
RF3 Mile Point: 0.00
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: NIOB0023

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th

******** No Parameter Data at this Station Suitable for Statistical Analysis ********

Station Inventory for Station: NIOB0024

NPS Station ID: NIOB0024
LAT/LON: 42.750420/ -99.851615
Agency: 21NEB001
Date Created: / /
Location: PLUM CREEK AT MEADVILLE
FIPS State/County: 31017 NEBRASKA/BROWN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 300970
RMI-Indexes: 1021500
Within Park Boundary: No
RMI-Miles: 1149.40
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 0
Water Body Id:
Minor Basin: NIOBRARA
ECO Region:
RF1 Index: 10150004003
RF1 Mile Point: 12.700
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 10150004002704.35
RF3 Mile Point: 5.51
Distance from RF3: 0.03
On/Off RF3:
Description:
T32N R22W SEC 11 CD BROWN COUNTY 14 MILES N OF AINSWORTH & 1.2 MILES W ON CO RD BR OR S OF MEADVILLE ACROSS NIOBRARA RIVER & 0.8 MILES W ON CO RD BR 11-17-78 7

Parameter Inventory for Station: NIOB0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-11/16/77	35	17.	15.691	27.8	0.	73.247	8.558	2.	6.5	23.	25.4
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/29/68-11/16/77	32	17.	16.719	31.	-17.8	121.725	11.033	5.72	10.275	27.375	29.
00032	CLOUD COVER (PERCENT)	08/30/70-12/07/76	20	0.	11.25	90.	0.	539.145	23.219	0.	0.	8.75	49.
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-11/16/77	31	97.	106.323	165.	77.	533.626	23.1	83.4	88.	122.	141.6
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/68-11/16/77	34	7.7	16.403	85.	2.	431.303	20.768	3.	5.	14.	52.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-11/16/77	35	180.	219.971	650.	140.	9206.617	95.951	163.	170.	230.	322.
00300	OXYGEN, DISSOLVED MG/L	05/15/68-11/16/77	35	9.1	9.094	13.2	4.4	3.839	1.959	7.26	7.7	10.4	11.68
00310	BOD, 5 DAY, 20 DEG C MG/L	03/24/76-11/16/77	14	1.4	2.407	11.8	0.2	8.815	2.969	0.5	1.025	2.5	8.5
00340	COD, .25N K2CR2O7 MG/L	03/24/76-11/16/77	15	14.	27.667	124.	0.	969.81	31.142	4.2	10.	30.	88.
00400	PH (STANDARD UNITS)	08/29/68-11/16/77	33	8.3	8.167	8.8	6.9	0.255	0.505	7.1	8.	8.5	8.66
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-11/16/77	33	8.3	7.754	8.8	6.9	0.431	0.656	7.1	8.	8.5	8.66
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-11/16/77	33	0.005	0.018	0.126	0.002	0.001	0.035	0.002	0.003	0.01	0.091
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	20	95.5	98.1	140.	79.	236.832	15.389	80.5	87.	102.25	130.
00500	RESIDUE, TOTAL (MG/L)	05/15/68-05/08/69	3	252.	246.	402.	84.	25308.	159.085	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/29/68-05/08/69	2	66.	66.	84.	48.	648.	25.456	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-11/16/77	30	162.	169.767	493.	42.	8923.702	94.465	97.	130.	176.25	208.7
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/24/76-11/16/77	15	27.	41.6	126.	2.	1649.4	40.613	2.	10.	73.	114.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/24/76-11/16/77	15	0.04	0.737	3.5	0.	2.047	1.431	0.	0.	0.2	3.5
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-11/16/77	33	0.4	0.386	0.9	0.	0.076	0.275	0.02	0.075	0.65	0.76
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/15/68-10/04/72	9	0.4	0.433	1.2	0.1	0.1	0.316	0.1	0.25	0.5	1.2
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	03/24/76-11/16/77	15	0.1	0.147	0.4	0.1	0.007	0.083	0.1	0.1	0.2	0.28
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	20	82.	84.1	110.	24.	348.516	18.669	72.2	78.	95.25	108.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-10/29/75	18	25.5	25.278	34.	3.	41.859	6.47	16.5	25.	29.	30.4
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-10/29/75	18	4.	4.611	9.	2.	3.428	1.852	2.9	4.	5.	8.1
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-11/16/77	33	8.	10.394	43.	6.	55.934	7.479	7.	7.	10.5	18.2
00931	SODIUM ADSORPTION RATIO	05/15/68-05/15/75	17	0.5	0.529	1.3	0.3	0.086	0.293	0.3	0.3	0.65	1.06
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/68-10/29/75	19	6.	6.053	10.	4.	2.497	1.58	4.	5.	7.	8.
00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-11/16/77	35	2.	3.214	29.	0.	34.092	5.839	0.5	0.5	2.	6.4
00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/68-10/29/75	20	2.	2.775	13.	0.	10.249	3.201	0.	0.5	3.75	6.9
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/15/68-05/08/69	3	0.33	0.45	0.72	0.3	0.055	0.234	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/29/68-05/08/69	2	15.	15.	30.	0.	450.	21.213	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/29/68-05/08/69	2 ##	25.	25.	50.	0.	1250.	35.355	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/15/68-05/08/69	3	2.	17.667	50.	1.	784.333	28.006	**	**	**	**

** - 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: NIOB0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01055	MANGANESE, TOTAL (UG/L AS MN)	05/15/68-05/15/68	1	300.	300.	300.	300.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/15/68-05/08/69	3	50.	83.667	200.	1.	10750.333	103.684	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-11/16/77	17	46.	2222.	18000.	0.	22873501.875	4782.625	0.	4.5	2130.	10560.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-11/16/77	17	1.663	1.866	4.255	0.	2.122	1.457	0.	0.477	3.158	4.003
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			73.445								

** - 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: NIOB0024

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	34	3	0.09	20	1	0.05	1	0	0.00	13	2	0.15			
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	35	0	0.00	20	0	0.00	1	0	0.00	14	0	0.00			
00400	PH	Other-Hi Lim.	9.	33	0	0.00	19	0	0.00	1	0	0.00	13	0	0.00			
		Other-Lo Lim.	6.5	33	0	0.00	19	0	0.00	1	0	0.00	13	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	33	0	0.00	20	0	0.00	1	0	0.00	12	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	35	0	0.00	20	0	0.00	1	0	0.00	14	0	0.00			
		Drinking Water	250.	35	0	0.00	20	0	0.00	1	0	0.00	14	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	20	0	0.00	11	0	0.00	1	0	0.00	8	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	3	0	0.00	1	0	0.00				2	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1 &	0	0.00	1	0	0.00									
		Drinking Water	1300.	2	0	0.00	1	0	0.00				1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	3	1	0.33	1	0	0.00				2	1	0.50			
		Drinking Water	5000.	3	0	0.00	1	0	0.00				2	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	17	6	0.35	10	1	0.10				7	5	0.71			

& - 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: 8/01 to 1/14 - Station NIOB0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-11/16/77	20	14.6	14.18	26.2	0.	81.863	9.048	0.2	6.125	22.875	25.8
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/29/68-11/16/77	18	17.	15.006	31.	-17.8	160.381	12.664	5.04	7.8	27.125	26.12
00032	CLOUD COVER (PERCENT)	08/30/70-12/07/76	12	0.	11.667	90.	0.	737.879	27.164	0.	0.	5.	75.
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-11/16/77	18	92.	94.222	116.	77.	134.654	11.604	79.7	87.	101.	113.3
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/68-11/16/77	20	6.5	11.665	70.	2.	253.059	15.908	3.	5.	10.75	37.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-11/16/77	20	180.	213.8	650.	140.	12008.8	109.585	165.	170.	213.75	312.
00300	OXYGEN, DISSOLVED MG/L	05/15/68-11/16/77	20	9.7	9.29	13.2	4.4	4.896	2.213	4.96	8.025	10.625	12.28
00400	PH (STANDARD UNITS)	08/29/68-11/16/77	19	8.4	8.221	8.8	6.9	0.323	0.568	6.9	8.	8.6	8.8
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-11/16/77	19	8.4	7.723	8.8	6.9	0.585	0.765	6.9	8.	8.6	8.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-11/16/77	19	0.004	0.019	0.126	0.002	0.001	0.039	0.002	0.003	0.01	0.126
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	11	94.	93.455	112.	79.	96.673	9.832	79.2	86.	100.	110.4
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-11/16/77	18	163.5	186.778	493.	43.	13235.007	115.043	99.7	130.	181.25	481.3
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-11/16/77	20	0.4	0.403	0.9	0.	0.081	0.284	0.05	0.125	0.7	0.79
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	11	78.	77.545	108.	24.	417.873	20.442	33.6	74.	88.	104.6
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-10/29/75	11	25.	23.909	29.	3.	58.891	7.674	6.	24.	29.	29.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-10/29/75	11	4.	4.455	9.	2.	4.473	2.115	2.2	3.	4.	8.8
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-11/16/77	19	8.	10.579	43.	7.	72.368	8.507	7.	7.	11.	21.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/68-10/29/75	11	6.	5.727	8.	4.	1.618	1.272	4.	5.	7.	7.8
00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-11/16/77	20	2.	3.875	29.	0.	57.26	7.567	0.05	0.5	2.	20.2
00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/68-10/29/75	11	2.	2.773	13.	0.	14.918	3.862	0.	0.5	4.	11.6

** - 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 #2: 1/15 to 3/09 - Station NIOB0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-11/16/77	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/29/68-11/16/77	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00032	CLOUD COVER (PERCENT)	08/30/70-12/07/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-11/16/77	1	92.	92.	92.	92.	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/68-11/16/77	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-11/16/77	1	415.	415.	415.	415.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/15/68-11/16/77	1	12.8	12.8	12.8	12.8	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-11/16/77	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-11/16/77	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-11/16/77	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	1	85.	85.	85.	85.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-11/16/77	1	132.	132.	132.	132.	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-11/16/77	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	1	78.	78.	78.	78.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-10/29/75	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-10/29/75	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-11/16/77	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/68-10/29/75	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-11/16/77	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/68-10/29/75	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

Seasonal Analysis for Season #3: 3/10 to 7/31 - Station NIOB0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-11/16/77	14	20.7	18.757	27.8	4.	45.898	6.775	5.25	15.775	24.	26.4
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/29/68-11/16/77	13	21.7	19.377	29.	3.	74.042	8.605	4.6	13.8	28.25	28.96
00032	CLOUD COVER (PERCENT)	08/30/70-12/07/76	7	5.	12.143	50.	0.	332.143	18.225	**	**	**	**

** - 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: 3/10 to 7/31 - Station NIOB0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-11/16/77	12	127.5	125.667	165.	85.	580.788	24.1	88.6	102.75	141.25	162.9
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/68-11/16/77	13	14.	24.569	85.	2.	664.912	25.786	2.96	6.	46.	73.8
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-11/16/77	14	190.	214.857	325.	160.	3514.901	59.287	160.	165.	275.	317.5
00300	OXYGEN, DISSOLVED MG/L	05/15/68-11/16/77	14	8.	8.55	10.6	7.2	1.452	1.205	7.35	7.575	9.4	10.55
00400	PH (STANDARD UNITS)	08/29/68-11/16/77	13	8.1	8.077	8.7	6.9	0.18	0.425	7.26	8.	8.3	8.62
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-11/16/77	13	8.1	7.777	8.7	6.9	0.277	0.527	7.26	8.	8.3	8.62
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-11/16/77	13	0.008	0.017	0.126	0.002	0.001	0.033	0.002	0.005	0.01	0.082
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	8	100.	106.125	140.	86.	372.696	19.305	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-11/16/77	11	163.	145.364	197.	42.	2060.655	45.394	52.8	130.	176.	194.
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-11/16/77	12	0.4	0.325	0.7	0.	0.06	0.244	0.	0.05	0.5	0.67
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	8	94.5	93.875	110.	78.	166.982	12.922	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-10/29/75	6	26.5	27.833	34.	25.	12.567	3.545	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-10/29/75	6	4.5	5.	8.	4.	2.4	1.549	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-11/16/77	13	8.	10.385	30.	6.	39.59	6.292	6.4	7.	10.5	23.6
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/68-10/29/75	7	6.	6.714	10.	5.	3.905	1.976	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-11/16/77	14	2.	2.357	7.	0.5	3.901	1.975	0.5	1.	2.5	6.5
00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/68-10/29/75	8	2.5	3.125	7.	0.	5.268	2.295	**	**	**	**

** - 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: NIOB0025

NPS Station ID: NIOB0025
LAT/LON: 42.751392/ -99.868059
Agency: 112WRD
Date Created: 03/17/77
Location: PLUM CREEK AT MEADVILLE, NE
FIPS State/County: 31017 NEBRASKA/BROWN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 06462500
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10150004020
RF1 Mile Point: 0.690
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10150004002401.67
RF3 Mile Point: 16.69
Distance from RF3: 0.16
On/Off RF3:
Description:

Parameter Inventory for Station: NIOB0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/09/76-07/25/84	68	14.25	13.316	27.5	0.	79.656	8.925	0.5	4.75	21.875	25.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	12/09/76-07/25/84	62	17.	15.056	31.5	-15.	121.607	11.028	3.45	9.5	24.5	29.55
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/09/76-07/25/84	68	102.5	120.191	278.	72.	1905.799	43.655	91.	97.	123.75	198.1
00080	COLOR (PLATINUM-COBALT UNITS)	12/09/76-09/24/81	46	6.5	14.152	50.	0.	228.399	15.113	1.7	5.	20.5	45.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/09/76-07/25/84	68	183.	194.471	333.	165.	1159.477	34.051	171.9	177.25	192.75	234.5
00400	PH (STANDARD UNITS)	12/09/76-07/25/84	68	7.7	7.667	8.6	6.8	0.185	0.43	7.1	7.3	8.	8.2
00400	CONVERTED PH (STANDARD UNITS)	12/09/76-07/25/84	68	7.7	7.472	8.6	6.8	0.223	0.472	7.1	7.3	8.	8.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/09/76-07/25/84	68	0.02	0.034	0.158	0.003	0.001	0.033	0.006	0.01	0.05	0.079
00403	PH, LAB, STANDARD UNITS SU	10/22/80-07/25/84	20	8.1	8.14	8.7	7.9	0.051	0.226	7.9	7.925	8.2	8.58
00403	CONVERTED PH, LAB, STANDARD UNITS	10/22/80-07/25/84	20	8.1	8.093	8.7	7.9	0.053	0.231	7.9	7.925	8.2	8.58
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/22/80-07/25/84	20	0.008	0.008	0.013	0.002	0.	0.003	0.003	0.006	0.012	0.013
00405	CARBON DIOXIDE (MG/L AS CO2)	12/09/76-09/26/79	24	7.7	8.958	28.	1.1	41.921	6.475	1.9	5.1	12.25	19.
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/09/76-09/04/80	48	84.5	91.167	170.	78.	341.504	18.48	80.	82.	90.	111.
00440	BICARBONATE ION (MG/L AS HCO3)	12/09/76-09/26/79	24	110.	113.625	210.	95.	568.505	23.843	99.5	100.	117.5	140.
00445	CARBONATE ION (MG/L AS CO3)	12/09/76-09/26/79	24	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/09/76-07/25/84	68	0.7	0.741	2.2	0.2	0.089	0.298	0.4	0.6	0.9	1.01
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/79-09/24/81	17	0.13	0.136	0.26	0.05	0.003	0.051	0.082	0.1	0.165	0.228
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	12/09/76-09/24/81	59	0.11	0.117	0.32	0.03	0.002	0.046	0.07	0.09	0.13	0.16
00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/09/76-11/16/82	63	76.	79.937	140.	69.	178.996	13.379	70.8	73.	80.	91.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	12/09/76-09/04/80	48	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/09/76-07/25/84	68	25.	26.353	41.	23.	13.217	3.635	23.9	24.	27.	30.1
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/09/76-07/25/84	68	3.2	3.534	8.3	2.7	1.001	1.001	3.	3.1	3.5	4.44
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/09/76-07/25/84	68	6.8	7.726	19.	5.7	7.441	2.728	6.2	6.5	7.475	9.93
00931	SODIUM ADSORPTION RATIO	12/09/76-11/16/82	63	0.3	0.356	0.8	0.3	0.011	0.106	0.3	0.3	0.4	0.46
00932	SODIUM, PERCENT	12/09/76-11/16/82	63	15.	15.873	26.	13.	5.371	2.317	14.	15.	16.	19.
00933	SODIUM,PLUS POTASSIUM (MG/L)	06/19/79-02/27/80	11	12.	12.455	13.	12.	0.273	0.522	12.	12.	13.	13.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/09/76-07/25/84	68	5.6	5.912	10.	4.7	1.265	1.125	4.99	5.3	6.075	7.22
00940	CHLORIDE,TOTAL IN WATER MG/L	12/09/76-07/25/84	68	1.	1.412	4.	0.4	0.553	0.744	0.9	1.	2.	2.
00945	SULFATE, TOTAL (MG/L AS SO4)	12/09/76-07/25/84	68	5.	5.406	11.	0.5	5.361	2.315	2.45	4.	7.	8.1
00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/09/76-07/25/84	67	0.3	0.361	0.8	0.2	0.013	0.115	0.3	0.3	0.4	0.5
00955	SILICA, DISSOLVED (MG/L AS SI02)	12/09/76-07/25/84	66	55.	54.	61.	42.	23.354	4.833	45.7	52.	58.	59.
01020	BORON, DISSOLVED (UG/L AS B)	12/09/76-09/24/81	57	20.	29.035	130.	0.	515.57	22.706	10.	10.	40.	60.
01046	IRON, DISSOLVED (UG/L AS FE)	12/09/76-09/24/81	58	30.	32.5	80.	5.	431.202	20.765	10.	20.	40.	71.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/09/76-09/24/81	58	4.	4.25	20.	0.5	12.143	3.485	1.45	2.	5.	5.1
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/26/79-09/26/79	1	164.	164.	164.	164.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	12/09/76-11/16/82	57	159.	161.93	240.	141.	271.316	16.472	150.6	154.	162.5	175.8
70302	SOLIDS, DISSOLVED-TONS PER DAY	12/09/76-11/16/82	58	44.5	51.738	166.	30.9	604.572	24.588	38.67	40.9	50.275	65.89
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	12/09/76-11/16/82	57	0.22	0.221	0.33	0.19	0.001	0.023	0.21	0.21	0.22	0.24

** - 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: NIOB0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/10/79-09/24/81	17	0.37	0.412	0.8	0.12	0.025	0.159	0.248	0.31	0.505	0.696
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	02/11/81-06/04/81	5	3.8	3.8	4.	3.5	0.045	0.212	**	**	**	**

** - 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: NIOB0025

				Total	Exceed	Prop.	----------8/01-1/14----------			----------1/15-3/09----------			----------3/10-7/31----------			----------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.	68	0	0.00	30	0	0.00	8	0	0.00	30	0	0.00			
		Other-Lo Lim.	6.5	68	0	0.00	30	0	0.00	8	0	0.00	30	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	20	0	0.00	9	0	0.00	1	0	0.00	10	0	0.00			
		Other-Lo Lim.	6.5	20	0	0.00	9	0	0.00	1	0	0.00	10	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	68	0	0.00	30	0	0.00	8	0	0.00	30	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	68	0	0.00	30	0	0.00	8	0	0.00	30	0	0.00			
		Drinking Water	250.	68	0	0.00	30	0	0.00	8	0	0.00	30	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	68	0	0.00	30	0	0.00	8	0	0.00	30	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	67	0	0.00	29	0	0.00	8	0	0.00	30	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 1976 - Station NIOB0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/09/76-07/25/84	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	12/09/76-07/25/84	1	9.5	9.5	9.5	9.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/09/76-07/25/84	1	97.	97.	97.	97.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	12/09/76-09/24/81	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/09/76-07/25/84	1	171.	171.	171.	171.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	12/09/76-07/25/84	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/09/76-07/25/84	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/09/76-07/25/84	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/09/76-09/04/80	1	82.	82.	82.	82.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/09/76-07/25/84	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	12/09/76-09/24/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/09/76-11/16/82	1	73.	73.	73.	73.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	12/09/76-09/04/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/09/76-07/25/84	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/09/76-07/25/84	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/09/76-07/25/84	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	12/09/76-11/16/82	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	12/09/76-11/16/82	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/09/76-07/25/84	1	5.3	5.3	5.3	5.3	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/09/76-07/25/84	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/09/76-07/25/84	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/09/76-07/25/84	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	12/09/76-07/25/84	1	54.	54.	54.	54.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	12/09/76-09/24/81	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	12/09/76-09/24/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/09/76-09/24/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	12/09/76-11/16/82	1	154.	154.	154.	154.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	12/09/76-11/16/82	1	40.3	40.3	40.3	40.3	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	12/09/76-11/16/82	1	0.21	0.21	0.21	0.21	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 1977 - Station NIOB0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/09/76-07/25/84	12	12.75	11.708	24.	0.	87.703	9.365	0.15	1.5	21.625	23.7
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	12/09/76-07/25/84	12	18.	12.542	27.5	-15.	151.475	12.308	1.8	5.625	22.5	-2.25
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/09/76-07/25/84	12	109.	118.417	159.	96.	522.811	22.865	96.3	99.	137.25	158.4
00080	COLOR (PLATINUM-COBALT UNITS)	12/09/76-09/24/81	12	16.5	23.583	50.	2.	365.356	19.114	2.9	6.5	44.5	48.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/09/76-07/25/84	12	181.	185.25	215.	167.	192.568	13.877	168.8	176.75	190.75	212.9
00400	PH (STANDARD UNITS)	12/09/76-07/25/84	12	7.4	7.367	7.7	7.	0.041	0.202	7.03	7.225	7.5	7.64
00400	CONVERTED PH (STANDARD UNITS)	12/09/76-07/25/84	12	7.389	7.323	7.7	7.	0.043	0.207	7.03	7.225	7.5	7.64
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/09/76-07/25/84	12	0.041	0.048	0.1	0.02	0.001	0.023	0.023	0.032	0.06	0.094
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/09/76-09/04/80	12	90.	89.917	110.	82.	73.174	8.554	82.	82.25	96.	106.4
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/09/76-07/25/84	12	0.7	0.85	2.2	0.4	0.21	0.458	0.46	0.625	0.975	1.84
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	12/09/76-09/24/81	12	0.13	0.131	0.19	0.1	0.001	0.023	0.103	0.113	0.14	0.175
00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/09/76-11/16/82	12	79.	81.083	91.	72.	41.902	6.473	72.3	76.5	86.75	91.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	12/09/76-09/04/80	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/09/76-07/25/84	12	26.	26.667	30.	24.	3.879	1.969	24.	25.25	28.75	29.7
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/09/76-07/25/84	12	3.45	3.508	4.4	2.9	0.197	0.444	2.96	3.125	3.9	4.25
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/09/76-07/25/84	12	6.85	7.175	9.2	6.	1.124	1.06	6.06	6.4	8.05	9.11
00931	SODIUM ADSORPTION RATIO	12/09/76-11/16/82	12	0.3	0.325	0.4	0.3	0.002	0.045	0.3	0.3	0.375	0.4
00932	SODIUM, PERCENT	12/09/76-11/16/82	12	15.	15.	17.	13.	1.455	1.206	13.3	14.	15.75	17.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/09/76-07/25/84	12	5.6	5.767	7.2	4.8	0.626	0.791	4.86	5.15	6.55	7.11
00940	CHLORIDE,TOTAL IN WATER MG/L	12/09/76-07/25/84	12	1.	1.325	2.	0.9	0.249	0.499	0.93	1.	2.	2.
00945	SULFATE, TOTAL (MG/L AS SO4)	12/09/76-07/25/84	12	5.	5.583	11.	4.	4.992	2.234	4.	4.	6.	10.4
00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/09/76-07/25/84	12	0.3	0.35	0.6	0.2	0.01	0.1	0.23	0.3	0.4	0.54

** - 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 1977 - Station NIOB0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00955	SILICA, DISSOLVED (MG/L AS SI02)	12/09/76-07/25/84	12	52.5	52.333	59.	42.	30.606	5.532	42.9	47.75	57.5	59.
01020	BORON, DISSOLVED (UG/L AS B)	12/09/76-09/24/81	12 ##	20.	24.167	40.	10.	226.515	15.05	10.	10.	40.	40.
01046	IRON, DISSOLVED (UG/L AS FE)	12/09/76-09/24/81	12	40.	42.917	80.	5.	583.902	24.164	9.5	22.5	65.	80.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/09/76-09/24/81	12 ##	5.	6.25	20.	5.	18.75	4.33	5.	5.	5.	15.5
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	12/09/76-11/16/82	12	160.5	160.5	179.	146.	113.727	10.664	146.3	152.25	168.75	177.8
70302	SOLIDS, DISSOLVED-TONS PER DAY	12/09/76-11/16/82	12	45.9	51.283	75.9	39.7	110.354	10.505	40.99	44.775	59.9	71.94
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	12/09/76-11/16/82	12	0.22	0.219	0.24	0.2	0.	0.014	0.2	0.21	0.23	0.24

** - 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 NIOB0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/09/76-07/25/84	12	12.75	12.042	27.5	0.	114.884	10.718	0.	0.5	22.25	27.05
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	12/09/76-07/25/84	9	25.5	13.444	30.	-15.	269.153	16.406	1.	3.	30.	-15.
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/09/76-07/25/84	12	105.	123.75	249.	93.	2068.932	45.486	93.3	94.75	133.5	225.3
00080	COLOR (PLATINUM-COBALT UNITS)	12/09/76-09/24/81	9	12.	16.	45.	1.	227.	15.067	1.	5.5	28.5	45.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/09/76-07/25/84	12	187.	200.25	333.	165.	2133.114	46.186	166.2	172.75	199.75	304.8
00400	PH (STANDARD UNITS)	12/09/76-07/25/84	12	7.35	7.392	8.	6.8	0.175	0.419	6.83	7.025	7.825	8.
00400	CONVERTED PH (STANDARD UNITS)	12/09/76-07/25/84	12	7.347	7.23	8.	6.8	0.204	0.451	6.83	7.025	7.825	8.
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/09/76-07/25/84	12	0.045	0.059	0.158	0.01	0.002	0.048	0.01	0.016	0.095	0.149
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/09/76-09/04/80	12	84.5	94.917	170.	78.	692.447	26.314	78.6	81.	96.	155.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/09/76-07/25/84	12	0.8	0.8	1.1	0.3	0.067	0.259	0.36	0.625	1.075	1.1
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	12/09/76-09/24/81	12	0.11	0.133	0.32	0.07	0.006	0.076	0.073	0.09	0.15	0.299
00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/09/76-11/16/82	12	77.	84.5	140.	70.	426.091	20.642	70.6	72.25	87.	131.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	12/09/76-09/04/80	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/09/76-07/25/84	12	25.	27.25	41.	23.	28.205	5.311	23.3	24.	28.75	38.9
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/09/76-07/25/84	12	3.2	3.808	8.3	3.	2.283	1.511	3.	3.1	3.7	7.28
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/09/76-07/25/84	12	6.7	8.042	19.	5.7	14.599	3.821	5.85	6.2	7.375	16.9
00931	SODIUM ADSORPTION RATIO	12/09/76-11/16/82	12	0.3	0.367	0.7	0.3	0.015	0.123	0.3	0.3	0.4	0.64
00932	SODIUM, PERCENT	12/09/76-11/16/82	12	15.	15.667	22.	14.	6.061	2.462	14.	14.	16.	21.1
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/09/76-07/25/84	12	5.6	6.133	10.	4.7	2.222	1.491	4.76	5.025	6.9	9.22
00940	CHLORIDE,TOTAL IN WATER MG/L	12/09/76-07/25/84	12	1.5	1.642	4.	0.7	0.832	0.912	0.79	1.	2.	3.4
00945	SULFATE, TOTAL (MG/L AS SO4)	12/09/76-07/25/84	12	5.5	6.	9.	4.	3.091	1.758	4.	4.25	7.75	8.7
00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/09/76-07/25/84	12	0.3	0.375	0.7	0.3	0.015	0.122	0.3	0.3	0.4	0.64
00955	SILICA, DISSOLVED (MG/L AS SI02)	12/09/76-07/25/84	11	54.	52.182	58.	42.	28.164	5.307	42.2	49.	56.	57.6
01020	BORON, DISSOLVED (UG/L AS B)	12/09/76-09/24/81	12	30.	29.167	60.	10.	208.333	14.434	10.	15.	37.5	54.
01046	IRON, DISSOLVED (UG/L AS FE)	12/09/76-09/24/81	12	35.	38.333	80.	5.	646.97	25.436	5.	20.	57.5	80.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/09/76-09/24/81	12 ##	5.	4.167	5.	2.	1.788	1.337	2.	2.5	5.	5.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	12/09/76-11/16/82	9	159.	168.667	240.	141.	947.75	30.786	141.	149.	181.5	240.
70302	SOLIDS, DISSOLVED-TONS PER DAY	12/09/76-11/16/82	10	50.7	63.07	161.	39.6	1313.46	36.242	39.63	40.65	66.775	152.02
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	12/09/76-11/16/82	9	0.22	0.23	0.33	0.19	0.002	0.042	0.19	0.205	0.245	0.33

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Annual Analysis for 1979 - Station NIOB0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/09/76-07/25/84	14	15.75	13.857	27.5	0.5	86.401	9.295	0.5	6.	21.5	26.25
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	12/09/76-07/25/84	12	21.5	18.5	28.5	5.5	74.955	8.658	5.8	8.25	26.375	28.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/09/76-07/25/84	14	99.5	109.714	208.	83.	1082.989	32.909	83.5	90.5	116.25	177.
00080	COLOR (PLATINUM-COBALT UNITS)	12/09/76-09/24/81	4	7.5	10.	25.	0.	116.667	10.801	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/09/76-07/25/84	14	182.5	188.5	265.	171.	547.962	23.409	172.	175.75	192.	230.
00400	PH (STANDARD UNITS)	12/09/76-07/25/84	14	7.8	7.8	8.3	7.1	0.115	0.34	7.2	7.6	8.1	8.25
00400	CONVERTED PH (STANDARD UNITS)	12/09/76-07/25/84	14	7.8	7.666	8.3	7.1	0.135	0.367	7.2	7.6	8.1	8.25

** - 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 box-and-whisker plot

Annual Analysis for 1979 - Station NIOB0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/09/76-07/25/84	14	0.016	0.022	0.079	0.005	0.	0.02	0.006	0.008	0.025	0.065
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/09/76-09/04/80	14	85.5	88.429	130.	78.	162.879	12.762	79.	82.25	90.	112.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/09/76-07/25/84	14	0.6	0.65	1.	0.3	0.052	0.228	0.35	0.5	0.9	1.
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	12/09/76-09/24/81	13	0.11	0.098	0.14	0.03	0.001	0.032	0.034	0.085	0.115	0.132
00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/09/76-11/16/82	14	74.	75.286	97.	69.	47.758	6.911	69.5	71.5	76.5	88.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	12/09/76-09/04/80	14	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/09/76-07/25/84	14	24.5	24.857	31.	23.	4.132	2.033	23.	23.75	25.25	28.5
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/09/76-07/25/84	14	3.05	3.214	4.8	2.8	0.235	0.485	2.9	3.	3.25	4.1
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/09/76-07/25/84	14	6.8	7.643	17.	5.9	8.027	2.833	6.15	6.475	7.225	13.35
00931	SODIUM ADSORPTION RATIO	12/09/76-11/16/82	14	0.3	0.371	0.8	0.3	0.019	0.138	0.3	0.3	0.4	0.65
00932	SODIUM, PERCENT	12/09/76-11/16/82	14	16.	17.	26.	14.	10.	3.162	14.	15.	18.25	23.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/09/76-07/25/84	14	5.6	5.743	8.4	4.9	0.769	0.877	4.95	5.225	6.05	7.3
00940	CHLORIDE,TOTAL IN WATER MG/L	12/09/76-07/25/84	14	1.	1.286	3.	1.	0.374	0.611	1.	1.	1.25	2.5
00945	SULFATE, TOTAL (MG/L AS SO4)	12/09/76-07/25/84	14	6.	6.071	10.	1.	4.687	2.165	2.5	4.75	7.25	9.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/09/76-07/25/84	13	0.3	0.362	0.8	0.3	0.021	0.145	0.3	0.3	0.35	0.68
00955	SILICA, DISSOLVED (MG/L AS SI02)	12/09/76-07/25/84	13	55.	54.538	59.	47.	15.936	3.992	47.	52.5	58.	59.
01020	BORON, DISSOLVED (UG/L AS B)	12/09/76-09/24/81	12	25.	30.833	70.	10.	481.061	21.933	10.	10.	55.	67.
01046	IRON, DISSOLVED (UG/L AS FE)	12/09/76-09/24/81	12	30.	35.	80.	10.	445.455	21.106	13.	20.	40.	77.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/09/76-09/24/81	12	4.	3.583	6.	2.	1.902	1.379	2.	2.	4.75	5.7
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	12/09/76-11/16/82	13	156.	159.692	199.	151.	149.231	12.216	151.8	154.	160.	183.8
70302	SOLIDS, DISSOLVED-TONS PER DAY	12/09/76-11/16/82	13	42.5	49.115	112.	36.1	404.581	20.114	36.9	38.55	48.75	92.28
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	12/09/76-11/16/82	13	0.21	0.218	0.27	0.21	0.	0.016	0.21	0.21	0.22	0.25

** - 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 box-and-whisker plot

Annual Analysis for 1980 - Station NIOB0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/09/76-07/25/84	12	13.	14.875	27.5	4.	73.233	8.558	4.45	6.625	24.25	26.75
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	12/09/76-07/25/84	12	15.5	16.958	31.5	3.	98.703	9.935	3.6	7.25	24.75	31.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/09/76-07/25/84	12	102.	116.417	278.	72.	2799.72	52.912	76.2	97.	116.25	233.6
00080	COLOR (PLATINUM-COBALT UNITS)	12/09/76-09/24/81	11	5.	12.273	50.	0.	196.818	14.029	1.	5.	20.	44.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/09/76-07/25/84	12	181.5	191.417	303.	172.	1270.083	35.638	172.9	177.	188.5	269.7
00400	PH (STANDARD UNITS)	12/09/76-07/25/84	12	7.95	7.908	8.5	7.2	0.106	0.326	7.35	7.7	8.1	8.41
00400	CONVERTED PH (STANDARD UNITS)	12/09/76-07/25/84	12	7.947	7.785	8.5	7.2	0.123	0.35	7.35	7.7	8.1	8.41
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/09/76-07/25/84	12	0.011	0.016	0.063	0.003	0.	0.016	0.004	0.008	0.02	0.05
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/09/76-09/04/80	9	84.	93.111	160.	82.	637.611	25.251	82.	82.5	89.5	160.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/09/76-07/25/84	12	0.6	0.642	1.	0.2	0.072	0.268	0.23	0.425	0.9	1.
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	12/09/76-09/24/81	12	0.11	0.123	0.22	0.07	0.002	0.045	0.073	0.093	0.145	0.211
00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/09/76-11/16/82	12	75.	79.417	130.	70.	265.174	16.284	70.	72.25	78.75	115.3
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	12/09/76-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/09/76-07/25/84	12	25.	26.083	40.	23.	20.629	4.542	23.	24.	26.	36.1
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/09/76-07/25/84	12	3.1	3.375	6.5	2.7	1.	1.	2.76	3.	3.3	5.54
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/09/76-07/25/84	12	6.7	7.633	16.	6.3	7.197	2.683	6.33	6.525	7.475	13.6
00931	SODIUM ADSORPTION RATIO	12/09/76-11/16/82	12	0.3	0.35	0.6	0.3	0.008	0.09	0.3	0.3	0.4	0.54
00932	SODIUM, PERCENT	12/09/76-11/16/82	12	15.5	15.917	20.	14.	2.447	1.564	14.3	15.	16.75	19.1
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/09/76-07/25/84	12	5.7	6.042	10.	5.5	1.592	1.262	5.5	5.5	5.875	8.83
00940	CHLORIDE,TOTAL IN WATER MG/L	12/09/76-07/25/84	12	1.	1.308	3.	0.8	0.446	0.668	0.83	1.	1.75	2.7
00945	SULFATE, TOTAL (MG/L AS SO4)	12/09/76-07/25/84	12	4.	4.917	10.	2.	7.538	2.746	2.	3.	6.5	10.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/09/76-07/25/84	12	0.35	0.375	0.7	0.3	0.013	0.114	0.3	0.3	0.4	0.61
00955	SILICA, DISSOLVED (MG/L AS SI02)	12/09/76-07/25/84	12	57.	55.583	59.	44.	17.174	4.144	46.4	55.	58.	59.
01020	BORON, DISSOLVED (UG/L AS B)	12/09/76-09/24/81	12	30.	42.5	130.	10.	1275.	35.707	10.	12.5	67.5	112.
01046	IRON, DISSOLVED (UG/L AS FE)	12/09/76-09/24/81	12	20.	21.25	50.	5.	155.114	12.454	6.5	12.5	20.	47.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/09/76-09/24/81	12	1.75	1.708	3.	0.5	0.612	0.782	0.65	1.	2.	3.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	12/09/76-11/16/82	12	158.5	163.167	221.	151.	343.242	18.527	151.6	156.25	161.	203.6
70302	SOLIDS, DISSOLVED-TONS PER DAY	12/09/76-11/16/82	12	43.25	53.583	166.	30.9	1291.162	35.933	32.85	40.6	49.975	132.73
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	12/09/76-11/16/82	12	0.215	0.222	0.3	0.21	0.001	0.025	0.21	0.21	0.22	0.276

** - 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 NIOB0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/09/76-07/25/84	9	11.	12.556	23.	0.5	65.965	8.122	0.5	5.	20.75	23.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	12/09/76-07/25/84	9	12.5	12.333	27.	-9.	124.375	11.152	4.5	-2.25	21.25	27.
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/09/76-07/25/84	9	99.	99.	108.	91.	20.25	4.5	91.	97.	101.	108.
00080	COLOR (PLATINUM-COBALT UNITS)	12/09/76-09/24/81	9	5.	4.667	10.	0.	7.25	2.693	0.	3.5	5.	10.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/09/76-07/25/84	9	184.	183.444	191.	177.	20.278	4.503	177.	179.5	186.5	191.
00400	PH (STANDARD UNITS)	12/09/76-07/25/84	9	7.8	7.7	8.6	6.9	0.25	0.5	6.9	7.3	7.95	8.6
00400	CONVERTED PH (STANDARD UNITS)	12/09/76-07/25/84	9	7.8	7.458	8.6	6.9	0.316	0.562	6.9	7.3	7.95	8.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/09/76-07/25/84	9	0.016	0.035	0.126	0.003	0.002	0.041	0.003	0.011	0.056	0.126
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/09/76-07/25/84	9	0.7	0.711	1.1	0.3	0.061	0.247	0.3	0.55	0.9	1.1
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	12/09/76-09/24/81	9	0.11	0.098	0.13	0.05	0.001	0.029	0.05	0.07	0.125	0.13
00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/09/76-11/16/82	9	78.	77.778	83.	73.	10.694	3.27	73.	75.	80.5	83.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/09/76-07/25/84	9	26.	25.889	28.	24.	1.611	1.269	24.	25.	27.	28.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/09/76-07/25/84	9	3.2	3.178	3.4	3.	0.022	0.148	3.	3.05	3.3	3.4
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/09/76-07/25/84	9	6.7	6.8	7.3	6.4	0.095	0.308	6.4	6.55	7.1	7.3
00931	SODIUM ADSORPTION RATIO	12/09/76-11/16/82	9	0.3	0.322	0.4	0.3	0.002	0.044	0.3	0.3	0.35	0.4
00932	SODIUM, PERCENT	12/09/76-11/16/82	9	15.	14.778	15.	14.	0.194	0.441	14.	14.5	15.	15.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/09/76-07/25/84	9	5.3	5.311	6.	4.7	0.179	0.423	4.7	5.	5.7	6.
00940	CHLORIDE,TOTAL IN WATER MG/L	12/09/76-07/25/84	9	0.9	0.967	2.	0.4	0.18	0.424	0.4	0.85	0.95	2.
00945	SULFATE, TOTAL (MG/L AS SO4)	12/09/76-07/25/84	9	5.	3.733	8.	0.5	7.178	2.679	0.5	0.8	5.5	8.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/09/76-07/25/84	9	0.3	0.3	0.4	0.2	0.003	0.05	0.2	0.3	0.3	0.4
00955	SILICA, DISSOLVED (MG/L AS SI02)	12/09/76-07/25/84	9	58.	57.778	61.	53.	6.444	2.539	53.	56.	60.	61.
01020	BORON, DISSOLVED (UG/L AS B)	12/09/76-09/24/81	8	20.	15.625	20.	0.	67.411	8.21	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	12/09/76-09/24/81	9	22.	23.889	30.	14.	38.111	6.173	14.	19.5	30.	30.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/09/76-09/24/81	9	4.	5.889	20.	1.	35.361	5.947	1.	2.	8.	20.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	12/09/76-11/16/82	9	158.	159.111	166.	155.	15.861	3.983	155.	155.5	163.	166.
70302	SOLIDS, DISSOLVED-TONS PER DAY	12/09/76-11/16/82	9	42.3	42.567	48.4	38.8	7.41	2.722	38.8	40.75	43.8	48.4
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	12/09/76-11/16/82	9	0.21	0.216	0.23	0.21	0.	0.007	0.21	0.21	0.22	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 1982 - Station NIOB0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/09/76-07/25/84	3	14.5	11.5	18.	2.	70.75	8.411	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	12/09/76-07/25/84	2	7.5	7.5	12.5	2.5	50.	7.071	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/09/76-07/25/84	3	111.	142.	213.	102.	3801.	61.652	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/09/76-07/25/84	3	198.	233.667	325.	178.	6356.333	79.727	**	**	**	**
00400	PH (STANDARD UNITS)	12/09/76-07/25/84	3	8.15	8.117	8.5	7.7	0.161	0.401	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/09/76-07/25/84	3	8.15	7.997	8.5	7.7	0.182	0.427	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/09/76-07/25/84	3	0.007	0.01	0.02	0.003	0.	0.009	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/09/76-07/25/84	3	0.8	0.733	1.	0.4	0.093	0.306	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/09/76-11/16/82	3	75.	89.667	120.	74.	690.333	26.274	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/09/76-07/25/84	3	25.	28.667	37.	24.	52.333	7.234	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/09/76-07/25/84	3	3.3	4.567	7.3	3.1	5.613	2.369	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/09/76-07/25/84	3	7.6	10.833	18.	6.9	38.643	6.216	**	**	**	**
00931	SODIUM ADSORPTION RATIO	12/09/76-11/16/82	3	0.4	0.5	0.7	0.4	0.03	0.173	**	**	**	**
00932	SODIUM, PERCENT	12/09/76-11/16/82	3	17.	18.333	23.	15.	17.333	4.163	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/09/76-07/25/84	3	5.6	6.733	9.1	5.5	4.203	2.05	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/09/76-07/25/84	3	1.	2.	4.	1.	3.	1.732	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/09/76-07/25/84	3 ##	2.5	3.667	6.	2.5	4.083	2.021	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/09/76-07/25/84	3	0.3	0.433	0.7	0.3	0.053	0.231	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	12/09/76-07/25/84	3	56.	55.333	57.	53.	4.333	2.082	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	12/09/76-11/16/82	1	166.	166.	166.	166.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	12/09/76-11/16/82	1	49.8	49.8	49.8	49.8	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	12/09/76-11/16/82	1	0.23	0.23	0.23	0.23	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 1983 - Station NIOB0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/09/76-07/25/84	3	18.	18.333	25.	12.	42.333	6.506	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	12/09/76-07/25/84	3	21.5	20.	21.5	17.	6.75	2.598	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/09/76-07/25/84	3	124.	144.333	197.	112.	2116.333	46.004	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/09/76-07/25/84	3	224.	233.667	280.	197.	1792.333	42.336	**	**	**	**
00400	PH (STANDARD UNITS)	12/09/76-07/25/84	3	8.1	7.967	8.6	7.2	0.503	0.709	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/09/76-07/25/84	3	8.1	7.611	8.6	7.2	0.694	0.833	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/09/76-07/25/84	3	0.008	0.025	0.063	0.003	0.001	0.034	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/09/76-07/25/84	3	0.8	0.8	1.	0.6	0.04	0.2	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/09/76-07/25/84	3	27.	29.	34.	26.	19.	4.359	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/09/76-07/25/84	3	4.4	4.667	6.	3.6	1.493	1.222	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/09/76-07/25/84	3	9.1	9.4	12.	7.1	6.07	2.464	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/09/76-07/25/84	3	6.6	6.967	8.7	5.6	2.503	1.582	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/09/76-07/25/84	3	2.	2.333	3.	2.	0.333	0.577	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/09/76-07/25/84	3	6.	6.667	8.	6.	1.333	1.155	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/09/76-07/25/84	3	0.4	0.4	0.5	0.3	0.01	0.1	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	12/09/76-07/25/84	3	52.	51.	55.	46.	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

Annual Analysis for 1984 - Station NIOB0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/09/76-07/25/84	2	21.5	21.5	22.	21.	0.5	0.707	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	12/09/76-07/25/84	2	20.5	20.5	21.	20.	0.5	0.707	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/09/76-07/25/84	2	243.5	243.5	277.	210.	2244.5	47.376	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/09/76-07/25/84	2	219.	219.	234.	204.	450.	21.213	**	**	**	**
00400	PH (STANDARD UNITS)	12/09/76-07/25/84	2	7.55	7.55	7.8	7.3	0.125	0.354	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/09/76-07/25/84	2	7.482	7.482	7.8	7.3	0.134	0.367	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/09/76-07/25/84	2	0.033	0.033	0.05	0.016	0.001	0.024	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/09/76-07/25/84	2	0.95	0.95	1.2	0.7	0.125	0.354	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/09/76-07/25/84	2	27.	27.	29.	25.	8.	2.828	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/09/76-07/25/84	2	3.8	3.8	4.1	3.5	0.18	0.424	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/09/76-07/25/84	2	7.9	7.9	8.2	7.6	0.18	0.424	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/09/76-07/25/84	2	6.05	6.05	6.6	5.5	0.605	0.778	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/09/76-07/25/84	2	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/09/76-07/25/84	2	6.5	6.5	7.	6.	0.5	0.707	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/09/76-07/25/84	2	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	12/09/76-07/25/84	2	46.5	46.5	51.	42.	40.5	6.364	**	**	**	**

** - 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 #1: 8/01 to 1/14 - Station NIOB0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/09/76-07/25/84	30	12.	11.9	25.	0.	70.162	8.376	0.55	3.75	18.625	24.35
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	12/09/76-07/25/84	29	16.5	12.931	28.5	-15.	108.084	10.396	2.5	6.5	22.25	27.
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/09/76-07/25/84	30	99.	99.233	126.	83.	74.461	8.629	86.5	95.5	102.25	110.8
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/09/76-07/25/84	30	182.	183.	198.	169.	58.966	7.679	172.4	177.	190.	192.9
00400	PH (STANDARD UNITS)	12/09/76-07/25/84	30	7.65	7.665	8.5	6.8	0.167	0.409	7.2	7.3	8.	8.2
00400	CONVERTED PH (STANDARD UNITS)	12/09/76-07/25/84	30	7.647	7.486	8.5	6.8	0.201	0.448	7.2	7.3	8.	8.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/09/76-07/25/84	30	0.023	0.033	0.158	0.003	0.001	0.033	0.006	0.01	0.05	0.063
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/09/76-07/25/84	30	0.8	0.813	2.2	0.2	0.114	0.337	0.5	0.6	1.	1.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/09/76-07/25/84	30	25.	24.967	29.	23.	2.24	1.497	23.	24.	26.	27.8
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/09/76-07/25/84	30	3.1	3.18	3.9	2.8	0.053	0.23	3.	3.	3.225	3.58
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/09/76-07/25/84	30	6.7	6.703	7.6	6.	0.125	0.354	6.21	6.475	6.9	7.19
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/09/76-07/25/84	30	5.5	5.517	6.2	4.9	0.109	0.33	5.01	5.3	5.8	5.98
00940	CHLORIDE,TOTAL IN WATER MG/L	12/09/76-07/25/84	30	1.	1.177	2.	0.7	0.18	0.424	0.9	1.	1.	2.
00945	SULFATE, TOTAL (MG/L AS SO4)	12/09/76-07/25/84	30	5.	5.35	10.	0.5	4.934	2.221	2.5	4.	7.	8.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/09/76-07/25/84	29	0.3	0.324	0.4	0.2	0.003	0.058	0.3	0.3	0.4	0.4
00955	SILICA, DISSOLVED (MG/L AS SI02)	12/09/76-07/25/84	28	56.5	56.714	60.	53.	3.545	1.883	54.	55.	58.	59.

** - 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: 1/15 to 3/09 - Station NIOB0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/09/76-07/25/84	8	0.5	1.438	5.5	0.	4.388	2.095	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	12/09/76-07/25/84	5	-9.	-0.3	14.5	-15.	137.45	11.724	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/09/76-07/25/84	8	109.5	109.5	119.	93.	62.571	7.91	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/09/76-07/25/84	8	175.	176.75	191.	167.	61.071	7.815	**	**	**	**
00400	PH (STANDARD UNITS)	12/09/76-07/25/84	8	7.2	7.25	7.7	6.9	0.1	0.316	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/09/76-07/25/84	8	7.189	7.162	7.7	6.9	0.109	0.33	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/09/76-07/25/84	8	0.065	0.069	0.126	0.02	0.002	0.042	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/09/76-07/25/84	8	1.	0.95	1.1	0.7	0.014	0.12	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/09/76-07/25/84	8	24.5	24.875	27.	23.	1.839	1.356	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/09/76-07/25/84	8	3.1	3.125	3.5	2.7	0.074	0.271	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/09/76-07/25/84	8	6.55	6.612	7.4	5.9	0.284	0.533	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/09/76-07/25/84	8	5.	5.088	5.7	4.7	0.118	0.344	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/09/76-07/25/84	8	1.	1.1	2.	0.9	0.134	0.366	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/09/76-07/25/84	8	4.	5.	10.	4.	4.286	2.07	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/09/76-07/25/84	8	0.3	0.313	0.4	0.3	0.001	0.035	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	12/09/76-07/25/84	8	55.5	55.75	61.	52.	8.5	2.915	**	**	**	**

** - 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: 3/10 to 7/31 - Station NIOB0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/09/76-07/25/84	30	19.75	17.9	27.5	4.5	50.076	7.076	6.1	11.75	23.625	27.35
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	12/09/76-07/25/84	28	21.5	20.	31.5	2.5	68.426	8.272	6.3	12.875	27.	30.15
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/09/76-07/25/84	30	127.	144.	278.	72.	3241.172	56.931	93.4	99.75	176.75	245.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/09/76-07/25/84	30	192.	210.667	333.	165.	2110.989	45.945	173.5	180.75	226.5	300.7
00400	PH (STANDARD UNITS)	12/09/76-07/25/84	30	7.8	7.78	8.6	7.	0.174	0.417	7.11	7.5	8.025	8.46
00400	CONVERTED PH (STANDARD UNITS)	12/09/76-07/25/84	30	7.8	7.596	8.6	7.	0.209	0.457	7.11	7.5	8.025	8.46
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/09/76-07/25/84	30	0.016	0.025	0.1	0.003	0.001	0.025	0.004	0.009	0.032	0.078
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/09/76-07/25/84	30	0.6	0.613	1.2	0.3	0.054	0.232	0.3	0.4	0.7	1.07
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/09/76-07/25/84	30	26.5	28.133	41.	23.	21.982	4.688	24.	25.	29.25	36.7
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/09/76-07/25/84	30	3.4	3.997	8.3	3.	1.845	1.358	3.01	3.1	4.4	6.45
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/09/76-07/25/84	30	7.5	9.047	19.	5.7	13.769	3.711	6.4	6.7	9.325	16.9

** - 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: 3/10 to 7/31 - Station NIOB0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/09/76-07/25/84	30	6.1	6.527	10.	4.7	2.045	1.43	5.3	5.5	7.05	9.06
00940	CHLORIDE,TOTAL IN WATER MG/L	12/09/76-07/25/84	30	2.	1.73	4.	0.4	0.877	0.937	0.9	1.	2.	3.
00945	SULFATE, TOTAL (MG/L AS SO4)	12/09/76-07/25/84	30	6.	5.57	11.	0.6	6.34	2.518	2.	4.	7.25	8.9
00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/09/76-07/25/84	30	0.35	0.41	0.8	0.3	0.022	0.149	0.3	0.3	0.5	0.7
00955	SILICA, DISSOLVED (MG/L AS SI02)	12/09/76-07/25/84	30	52.	51.	60.	42.	29.724	5.452	42.1	46.75	56.	58.8

** - 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 Inventory for Station: NIOB0026

NPS Station ID: NIOB0026
LAT/LON: 42.781670/ -99.980004
Agency: 21NEB001
Date Created: 05/07/88
Location: TURKEY CREEK
FIPS State/County: 31103 NEBRASKA/KEYA PAHA
Station Type: /TYPA/AMBNT/STREAM/BIO
STORET Station ID(s): NI3185
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id: NENI3-20300
Minor Basin:
ECO Region: 44G
RF1 Index: 10150004
RF1 Mile Point: 0.000
Distance from RF1: 1.90
On/Off RF1:
RF3 Index: 10150004004900.00
RF3 Mile Point: 0.25
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: NIOB0026

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th

******** No Parameter Data at this Station Suitable for Statistical Analysis ********

Station Inventory for Station: NIOB0027

NPS Station ID: NIOB0027
LAT/LON: 42.784227/-100.017893
Agency: 21NEB001
Date Created: / /
Location: NIOBRARA RIVER AT NORDEN
FIPS State/County: 31103 NEBRASKA/KEYA PAHA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 300962
RMI-Indexes: 1021500
Within Park Boundary: Yes
RMI-Miles: 1149.40
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 0
Water Body Id:
Minor Basin: NIOBRARA
ECO Region:
RF1 Index: 10150004004
RF1 Mile Point: 9.730
Distance from RF1: 16.30
On/Off RF1: ON
RF3 Index: 10150004129900.00
RF3 Mile Point: 0.45
Distance from RF3: 0.51
On/Off RF3:
Description:
T33N R23W SEC 33 DB KEYA PAHA COUNTY 6 MILES S OF NORDEN ON HWY BR 11-17-78
23W SEC33DB KEYA PAHA COUNTY 6 MILES S OF NORDEN ON HWY BR 1-15-77

Parameter Inventory for Station: NIOB0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-11/16/77	25	18.	15.516	28.	1.	78.297	8.849	2.	6.15	23.	26.4
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/29/68-11/16/77	21	17.8	15.49	30.5	-11.	120.719	10.987	4.3	9.	26.75	30.2
00032	CLOUD COVER (PERCENT)	08/06/71-10/20/76	16	2.5	21.875	95.	0.	1096.25	33.11	0.	0.	42.5	91.5
00035	WIND VELOCITY (MILES PER HOUR)	05/15/75-05/15/75	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-11/16/77	27	767.	767.519	1180.	420.	44535.182	211.034	448.6	629.	940.	1068.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/68-11/16/77	23	12.	29.352	296.	4.	3622.973	60.191	5.8	8.7	24.	60.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-11/16/77	25	220.	220.	270.	160.	841.	29.	178.	204.	242.5	260.
00100	TIME OF TRAVEL (HOURS)	05/15/75-05/15/75	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00200	LIGHT,INCIDENT,400-700NM,INTENSITY,UEINSTEINS/M2/S	05/15/75-05/15/75	1	62.	62.	62.	62.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/15/68-11/16/77	25	8.8	9.2	13.7	5.8	3.023	1.739	7.1	8.1	10.5	11.48
00310	BOD, 5 DAY, 20 DEG C MG/L	03/24/76-11/16/77	7	2.3	3.157	6.1	0.6	3.843	1.96	**	**	**	**
00320	BOD, ULTIMATE 1ST STAGE, 20 DEG C MG/L	05/15/75-05/15/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	03/24/76-11/16/77	7	28.	35.143	90.	10.	842.476	29.025	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-11/16/77	23	8.1	8.13	8.8	6.8	0.255	0.505	7.16	8.	8.5	8.66
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-11/16/77	23	8.1	7.736	8.8	6.8	0.417	0.646	7.16	8.	8.5	8.66
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-11/16/77	23	0.008	0.018	0.158	0.002	0.001	0.037	0.002	0.003	0.01	0.076
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	18	112.	110.333	116.	95.	38.235	6.183	101.3	105.75	116.	116.
00500	RESIDUE, TOTAL (MG/L)	05/15/68-08/29/68	2	250.	250.	348.	152.	19208.	138.593	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/29/68-08/29/68	1	152.	152.	152.	152.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-11/16/77	23	175.	187.087	300.	150.	1470.81	38.351	151.6	166.	188.	263.4
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/24/76-11/16/77	7	53.	77.143	241.	20.	5532.81	74.383	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/24/76-11/16/77	7	0.04	0.527	3.5	0.	1.72	1.311	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-11/16/77	23	0.1	0.226	0.8	0.	0.059	0.242	0.	0.05	0.4	0.6
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/15/68-10/04/72	7	0.2	0.471	1.3	0.2	0.182	0.427	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	03/24/76-11/16/77	7	0.1	0.134	0.2	0.04	0.004	0.065	**	**	**	**
00700	ACIDS, TOTAL VOLATILE (MG/L AS ACETIC ACID)	12/11/73-12/11/73	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	18	92.	93.333	124.	31.	310.706	17.627	84.1	91.	100.25	106.9
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-10/29/75	16	32.	29.625	37.	4.	51.983	7.21	20.8	29.	32.	34.9
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-10/29/75	16	5.	4.75	10.	1.	3.4	1.844	2.4	4.	5.	7.2
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-11/16/77	23	10.	10.87	20.	8.	9.209	3.035	8.4	9.	11.	16.2
00931	SODIUM ADSORPTION RATIO	05/15/68-05/15/75	15	0.5	0.56	1.	0.3	0.04	0.199	0.36	0.4	0.7	0.94
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/68-10/29/75	17	7.	6.471	9.	4.	1.64	1.281	4.8	5.5	7.	8.2
00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-11/16/77	25	1.	1.72	7.	0.	2.585	1.608	0.	0.5	2.	3.8

** - 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 time series plot

Parameter Inventory for Station: NIOB0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/68-10/29/75	17	5.	5.235	19.	0.5	19.785	4.448	0.5	2.	6.	11.8
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/15/68-12/11/73	3	0.38	1.527	4.	0.2	4.596	2.144	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/29/68-08/29/68	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/15/68-08/29/68	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/15/68-08/29/68	2	251.5	251.5	500.	3.	123504.5	351.432	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/15/68-05/15/68	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/15/68-08/29/68	2	100.5	100.5	200.	1.	19800.5	140.714	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-11/16/77	8	142.5	726.625	4700.	0.	2614079.125	1616.811	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-11/16/77	8	2.138	1.64	3.672	0.	2.081	1.443	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			43.648								

** - 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: NIOB0027

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	23	2	0.09	13	2	0.15	1	0	0.00	9	0	0.00			
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	25	0	0.00	14	0	0.00	1	0	0.00	10	0	0.00			
00400	PH	Other-Hi Lim.	9.	23	0	0.00	13	0	0.00	1	0	0.00	9	0	0.00			
		Other-Lo Lim.	6.5	23	0	0.00	13	0	0.00	1	0	0.00	9	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	23	0	0.00	14	0	0.00	1	0	0.00	8	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	25	0	0.00	14	0	0.00	1	0	0.00	10	0	0.00			
		Drinking Water	250.	25	0	0.00	14	0	0.00	1	0	0.00	10	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	17	0	0.00	9	0	0.00	1	0	0.00	7	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	3	1	0.33	2	1	0.50				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			
01092	ZINC, TOTAL	Fresh Acute	120.	2	1	0.50	1	0	0.00				1	1	1.00			
		Drinking Water	5000.	2	0	0.00	1	0	0.00				1	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	8	3	0.38	4	1	0.25				4	2	0.50			

& - 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: 8/01 to 1/14 - Station NIOB0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-11/16/77	14	14.	14.464	27.	1.	81.878	9.049	1.5	4.65	22.75	26.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/29/68-11/16/77	11	14.4	14.182	30.5	0.	92.398	9.612	0.8	5.8	24.	29.5
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-11/16/77	14	647.5	729.929	1180.	420.	72918.687	270.035	433.5	473.75	1012.5	1140.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/68-11/16/77	13	11.	38.031	296.	4.	6351.912	79.699	5.2	8.5	19.5	208.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-11/16/77	14	215.	216.929	260.	175.	834.841	28.894	177.5	195.	243.75	260.
00300	OXYGEN, DISSOLVED MG/L	05/15/68-11/16/77	14	9.2	9.243	11.6	5.8	2.629	1.621	6.45	8.425	10.45	11.5
00400	PH (STANDARD UNITS)	08/29/68-11/16/77	13	8.5	8.2	8.8	6.8	0.37	0.608	6.88	8.1	8.5	8.72
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-11/16/77	13	8.5	7.632	8.8	6.8	0.719	0.848	6.88	8.1	8.5	8.72
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-11/16/77	13	0.003	0.023	0.158	0.002	0.002	0.049	0.002	0.003	0.008	0.135
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	10	111.5	110.5	116.	102.	32.722	5.72	102.	105.	116.	116.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-11/16/77	14	183.	196.5	300.	150.	2000.885	44.731	156.	169.25	207.	289.5
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-11/16/77	14	0.2	0.254	0.8	0.	0.067	0.258	0.	0.038	0.425	0.7
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	10	92.	87.7	101.	31.	411.344	20.282	36.9	90.75	97.	100.9
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-10/29/75	10	31.	28.6	37.	4.	80.489	8.972	6.5	29.	32.	36.5
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-10/29/75	10	4.5	4.	5.	1.	1.778	1.333	1.2	3.	5.	5.
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-11/16/77	13	10.	10.462	15.	9.	4.769	2.184	9.	9.	11.	15.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/68-10/29/75	10	6.5	6.3	9.	4.	2.011	1.418	4.1	5.	7.	8.8
00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-11/16/77	14	1.	1.75	7.	0.	3.452	1.858	0.	0.5	3.	5.
00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/68-10/29/75	9	4.	5.	19.	0.5	32.188	5.673	0.5	1.25	6.	19.

** - 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: 1/15 to 3/09 - Station NIOB0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-11/16/77	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/29/68-11/16/77	1	-11.	-11.	-11.	-11.	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-11/16/77	1	700.	700.	700.	700.	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/68-11/16/77	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-11/16/77	1	210.	210.	210.	210.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/15/68-11/16/77	1	13.7	13.7	13.7	13.7	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-11/16/77	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-11/16/77	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-11/16/77	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	1	95.	95.	95.	95.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-11/16/77	1	154.	154.	154.	154.	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-11/16/77	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	1	91.	91.	91.	91.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-10/29/75	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-10/29/75	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-11/16/77	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/68-10/29/75	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-11/16/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/68-10/29/75	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 box-and-whisker plot

Seasonal Analysis for Season #3: 3/10 to 7/31 - Station NIOB0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-11/16/77	10	20.45	18.34	28.	3.5	59.645	7.723	3.9	13.125	23.375	27.65
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/29/68-11/16/77	9	22.	20.033	29.	5.5	73.01	8.545	5.5	13.	28.5	29.
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-11/16/77	12	799.	817.	1060.	605.	14204.545	119.183	639.2	740.	903.75	1024.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/68-11/16/77	9	16.	19.522	37.	8.	130.079	11.405	8.	8.85	32.	37.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-11/16/77	10	229.	225.3	270.	160.	979.789	31.302	164.5	208.75	247.5	268.5

** - 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: 3/10 to 7/31 - Station NIOB0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00300	OXYGEN, DISSOLVED MG/L	05/15/68-11/16/77	10	8.3	8.69	11.1	7.1	1.723	1.313	7.15	7.825	9.45	11.07
00400	PH (STANDARD UNITS)	08/29/68-11/16/77	9	8.	8.044	8.7	7.4	0.128	0.357	7.4	7.9	8.25	8.7
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-11/16/77	9	8.	7.917	8.7	7.4	0.146	0.382	7.4	7.9	8.25	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-11/16/77	9	0.01	0.012	0.04	0.002	0.	0.011	0.002	0.006	0.013	0.04
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	7	112.	112.286	116.	105.	15.571	3.946	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-11/16/77	8	169.	174.75	218.	150.	399.071	19.977	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-11/16/77	8	0.05	0.131	0.4	0.	0.029	0.169	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	7	100.	101.714	124.	90.	127.571	11.295	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-10/29/75	5	32.	32.	34.	29.	3.5	1.871	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-10/29/75	5	5.	6.2	10.	5.	4.7	2.168	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-11/16/77	9	10.	11.778	20.	8.	15.944	3.993	8.	9.5	14.	20.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/68-10/29/75	6	7.	7.	8.	6.	0.8	0.894	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-11/16/77	10	2.	1.75	5.	0.	1.847	1.359	0.05	0.875	2.	4.7
00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/68-10/29/75	7	5.	5.571	10.	2.	9.619	3.101	**	**	**	**

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Station Inventory for Station: NIOB0028

NPS Station ID: NIOB0028
LAT/LON: 42.786948/-100.035004
Agency: 112WRD
Date Created: / /
Location: NIOBRARA RIVER NR NORDEN NEBR
FIPS State/County: 31103 NEBRASKA/KEYA PAHA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 06462000
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10150004004
RF1 Mile Point: 10.700
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10150004000402.06
RF3 Mile Point: 8.23
Distance from RF3: 0.09
On/Off RF3:
Description:

Parameter Inventory for Station: NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/52-09/22/83	227	14.	12.969	32.2	0.	95.143	9.754	0.4	3.	21.5	26.1
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/74-09/22/83	106	17.75	12.462	34.	-21.5	156.841	12.524	3.	8.875	24.125	30.15
00060	FLOW, STREAM, MEAN DAILY CFS	09/28/60-09/09/74	93	796.	847.624	2230.	390.	113198.346	336.45	548.2	587.	1020.	1204.
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/13/50-09/22/83	205	837.	900.444	2890.	427.	117504.719	342.79	571.2	680.5	1020.	1260.
00065	STAGE, STREAM (FEET)	05/04/83-07/29/83	3	1.75	2.01	2.76	1.52	0.435	0.66	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	09/28/60-09/22/83	113	6.	9.681	80.	0.	104.715	10.233	3.	5.	10.	20.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-09/22/83	154	230.	230.818	282.	187.	279.222	16.71	209.	220.	242.	251.5
00400p	PH (STANDARD UNITS)	09/28/60-09/22/83	154	7.7	7.673	8.8	6.9	0.1	0.316	7.3	7.4	7.9	8.1
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-09/22/83	154	7.7	7.563	8.8	6.9	0.112	0.335	7.3	7.4	7.9	8.1
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-09/22/83	154	0.02	0.027	0.126	0.002	0.	0.021	0.008	0.013	0.04	0.05
00403	PH, LAB, STANDARD UNITS SU	10/20/80-09/22/83	34	8.2	8.132	8.5	7.6	0.035	0.187	7.9	8.	8.2	8.4
00403	CONVERTED PH, LAB, STANDARD UNITS	10/20/80-09/22/83	34	8.2	8.089	8.5	7.6	0.037	0.192	7.9	8.	8.2	8.4
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/20/80-09/22/83	34	0.006	0.008	0.025	0.003	0.	0.004	0.004	0.006	0.01	0.013
00405	CARBON DIOXIDE (MG/L AS CO2)	07/31/74-09/18/78	49	4.4	6.102	22.	0.3	24.218	4.921	1.7	2.9	7.75	15.
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/14/64-09/24/80	84	110.	111.31	133.	90.	49.879	7.063	101.5	110.	115.75	120.
00440	BICARBONATE ION (MG/L AS HCO3)	09/28/60-09/18/78	95	138.	137.789	162.	110.	74.721	8.644	127.6	132.	143.	150.
00445	CARBONATE ION (MG/L AS CO3)	09/28/60-09/18/78	95	0.	0.021	2.	0.	0.042	0.205	0.	0.	0.	0.
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	02/09/81-02/09/81	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/31/74-09/22/83	107	0.4	0.439	5.1	0.	0.361	0.601	0.038	0.1	0.6	0.7
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/12/64-10/18/65	4	0.215	0.198	0.28	0.08	0.007	0.087	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/12/79-09/22/83	39	0.14	0.155	0.59	0.07	0.008	0.089	0.09	0.11	0.16	0.25
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/31/74-09/22/83	108	0.075	0.082	0.82	0.01	0.006	0.079	0.03	0.05	0.1	0.12
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	05/12/64-10/14/64	2	0.005	0.005	0.01	0.	0.	0.007	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-04/06/83	149	96.	96.087	120.	77.	52.486	7.245	87.	92.	100.	104.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-09/24/80	115	0.	0.043	4.	0.	0.147	0.384	0.	0.	0.	0.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-09/22/83	154	32.	31.753	39.	25.	6.148	2.479	29.	30.	33.	35.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-09/22/83	154	4.2	4.157	6.6	0.9	0.415	0.644	3.5	3.9	4.425	4.8
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-09/22/83	154	9.1	9.306	14.	7.	1.102	1.05	8.4	8.7	9.7	10.
00931p	SODIUM ADSORPTION RATIO	09/28/60-04/06/83	149	0.4	0.407	0.5	0.3	0.001	0.031	0.4	0.4	0.4	0.4
00932	SODIUM, PERCENT	10/14/64-04/06/83	104	16.	16.26	22.	14.	1.553	1.246	15.	16.	17.	18.
00933	SODIUM,PLUS POTASSIUM (MG/L)	05/10/79-02/06/80	9	16.	15.778	18.	14.	1.444	1.202	14.	15.	16.5	18.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-09/22/83	153	6.4	6.406	8.4	3.9	0.612	0.782	5.5	5.9	6.9	7.4
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-09/22/83	153	2.	1.496	3.	0.	0.489	0.699	0.9	1.	2.	2.
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-09/22/83	153	7.	7.366	20.	2.	5.411	2.326	5.	6.	9.	10.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-09/22/83	153	0.4	0.374	2.	0.2	0.022	0.147	0.3	0.3	0.4	0.4
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-09/22/83	150	52.	52.54	66.	37.	23.659	4.864	47.	49.75	56.	59.
01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/12/64-10/14/64	2	20.	20.	30.	10.	200.	14.142	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	05/12/64-10/14/64	2 ##	75.	75.	100.	50.	1250.	35.355	**	**	**	**

** - 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: NIOB0028

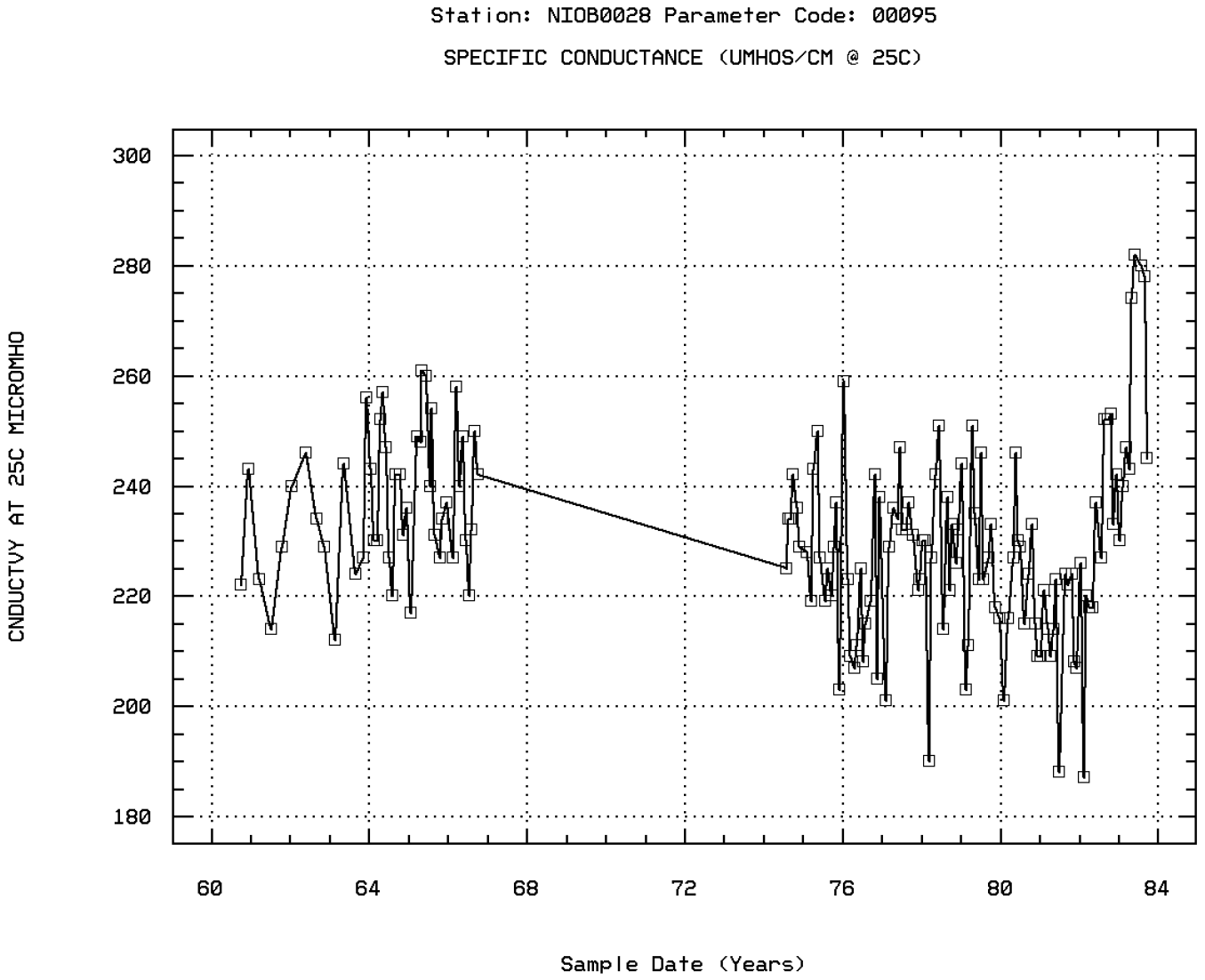
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/12/64-10/14/64	2 ##	2.75	2.75	5.	0.5	10.125	3.182	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	09/28/60-09/22/83	153	30.	29.739	110.	0.	245.984	15.684	10.	20.	40.	46.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/14/64-10/06/66	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/12/64-10/06/66	3	0.	0.667	2.	0.	1.333	1.155	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	10/14/64-10/14/64	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	05/12/64-10/14/64	2 ##	1.	1.	2.	0.	2.	1.414	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/12/64-10/06/66	3	10.	16.667	40.	0.	433.333	20.817	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	09/28/60-09/22/83	154	27.5	33.61	270.	0.	1155.533	33.993	7.	20.	40.	60.
01049	LEAD, DISSOLVED (UG/L AS PB)	05/12/64-10/14/64	2	13.5	13.5	27.	0.	364.5	19.092	**	**	**	**
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	12/13/60-09/22/83	142	5.	9.637	130.	0.	359.313	18.956	0.	2.	6.	20.
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/12/64-10/14/64	2 ##	3.25	3.25	6.	0.5	15.125	3.889	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/12/64-10/14/64	2	5.5	5.5	8.	3.	12.5	3.536	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	05/12/64-10/14/64	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/12/64-10/14/64	2	89.	89.	90.	88.	2.	1.414	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	05/12/64-10/14/64	2 ##	3.5	3.5	6.	1.	12.5	3.536	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/12/64-10/06/66	3	0.	13.333	40.	0.	533.333	23.094	**	**	**	**
01100	TIN, DISSOLVED (UG/L AS SN)	05/12/64-10/14/64	2 ##	1.75	1.75	2.	1.5	0.125	0.354	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/14/64-10/14/64	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/12/64-05/12/64	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/12/64-10/14/64	2	6.5	6.5	10.	3.	24.5	4.95	**	**	**	**
01135	RUBIDIUM, DISSOLVED (UG/L AS RB)	05/12/64-10/14/64	2	11.	11.	17.	5.	72.	8.485	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/12/64-10/14/64	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/12/64-10/14/64	2	53.5	53.5	100.	7.	4324.5	65.761	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	05/12/64-10/14/64	2 ##	1.75	1.75	2.	1.5	0.125	0.354	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-10/06/66	46	189.	188.196	205.	172.	61.494	7.842	177.1	183.	194.	199.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/31/74-04/06/83	97	179.	180.546	218.	143.	134.688	11.606	167.	174.5	188.5	194.
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/06/63-03/09/83	132	378.	412.462	2620.01	165.	52981.885	230.178	266.9	304.	468.5	556.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/06/63-03/09/83	130	0.25	0.257	0.59	0.19	0.002	0.046	0.23	0.24	0.26	0.27
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	02/06/53-06/09/67	4	5.5	13.25	40.	2.	328.917	18.136	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	08/28/50-06/16/67	7	13.	19.143	52.	2.	305.143	17.468	**	**	**	**
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	09/20/55-09/20/55	1	25.	25.	25.	25.	0.	0.	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	08/28/50-06/09/67	5	25.	28.	64.	6.	582.5	24.135	**	**	**	**
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	03/12/53-09/20/55	2	23.	23.	38.	8.	450.	21.213	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	04/13/50-09/28/67	121	14.	18.942	89.	2.	214.138	14.633	7.2	11.	23.5	34.2
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	04/13/50-09/28/67	121	34.	38.165	97.	10.	262.406	16.199	19.2	28.	46.	56.8
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/08/50-09/28/67	120	84.5	83.967	99.	47.	78.99	8.888	74.	78.	90.75	94.9
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/08/50-09/28/67	120	100.	99.367	100.	90.	1.596	1.263	98.	99.	100.	100.
70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	09/21/50-08/16/67	45	100.	100.	100.	100.	0.	0.	100.	100.	100.	100.
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	02/09/81-02/09/81	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/28/60-10/06/66	46	0.5	0.667	2.	0.	0.274	0.524	0.1	0.2	1.1	1.36
71865	IODIDE (MG/L AS I)	05/12/64-10/14/64	2	0.006	0.006	0.009	0.002	0.	0.005	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/12/79-09/22/83	39	0.43	0.477	1.8	0.21	0.073	0.27	0.28	0.34	0.49	0.77
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/13/50-09/28/67	141	946.	1113.142	4080.	300.	423695.48	650.919	436.2	672.	1410.	1974.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/13/50-09/28/67	141	2490.	3002.759	15300.	335.	6152014.67	2480.326	730.8	1355.	4035.	5876.
80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	10/07/53-09/28/67	40	0.	0.725	16.	0.	6.717	2.592	0.	0.	0.	1.9
80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	10/07/53-09/28/67	50	2.	4.16	33.	0.	32.056	5.662	0.	1.	7.	11.6
80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	10/07/53-09/28/67	50	46.	45.76	85.	12.	227.533	15.084	27.4	34.75	56.	64.7
80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	10/07/53-09/28/67	50	95.	92.24	100.	78.	39.533	6.288	80.5	87.75	97.	99.9
80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	10/07/53-09/28/67	45	100.	98.067	100.	90.	7.882	2.807	94.	97.	100.	100.
80163	BED MATERIAL FALL DIAMETER, % FINER THAN 2.00MM	11/06/63-09/08/66	17	98.	97.706	100.	92.	4.596	2.144	94.4	97.	99.	100.
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	12/11/56-02/22/67	5	99.	97.4	100.	92.	10.3	3.209	**	**	**	**
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	12/11/56-12/14/66	18	98.5	98.833	100.	97.	1.324	1.15	97.	98.	100.	100.
80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	12/11/56-05/19/66	10	100.	99.8	100.	99.	0.178	0.422	99.	99.75	100.	100.
80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	11/06/63-01/16/64	2	100.	100.	100.	100.	0.	0.	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	01/12/81-07/02/81	7	4.7	4.714	5.4	4.1	0.148	0.385	**	**	**	**

** - 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

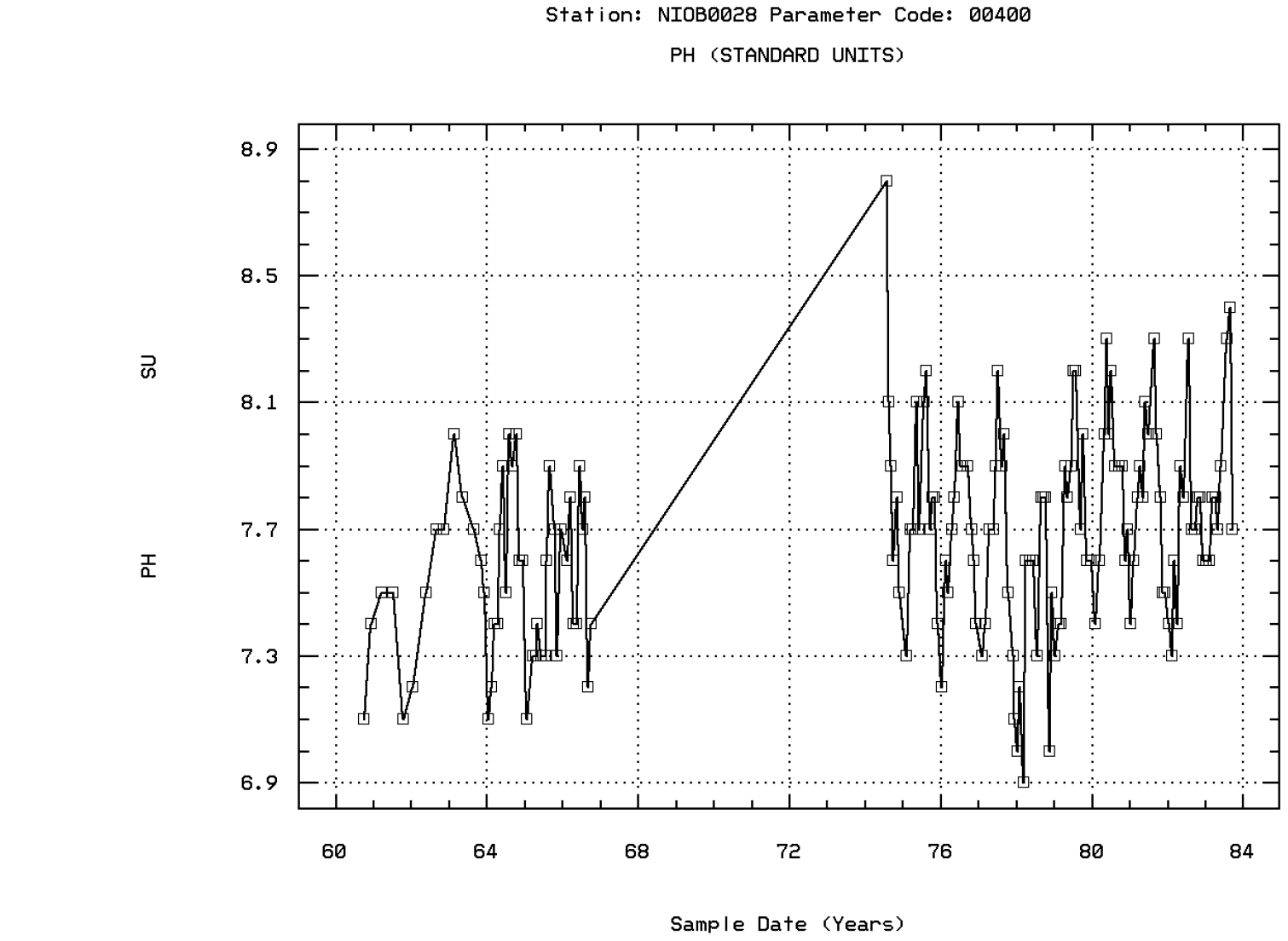
EPA Water Quality Criteria Analysis for Station: NIOB0028

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	154	0	0.00	74	0	0.00	18	0	0.00	62	0	0.00			
		Other-Lo Lim.	6.5	154	0	0.00	74	0	0.00	18	0	0.00	62	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	34	0	0.00	17	0	0.00	3	0	0.00	14	0	0.00			
		Other-Lo Lim.	6.5	34	0	0.00	17	0	0.00	3	0	0.00	14	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	107	0	0.00	53	0	0.00	11	0	0.00	43	0	0.00			
00720	CYANIDE, TOTAL	Fresh Acute	0.022	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	0.2	2	0	0.00	1	0	0.00				1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	153	0	0.00	74	0	0.00	17	0	0.00	62	0	0.00			
		Drinking Water	250.	153	0	0.00	74	0	0.00	17	0	0.00	62	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	153	0	0.00	74	0	0.00	17	0	0.00	62	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	153	0	0.00	74	0	0.00	17	0	0.00	62	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			
01005	BARIUM, DISSOLVED	Drinking Water	2000.	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.	1 &	0	0.00							1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	2	0	0.00	2	0	0.00									
		Drinking Water	5.	2	0	0.00	2	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	3	0	0.00	2	0	0.00				1	0	0.00			
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	3	1	0.33	2	1	0.50				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	1	0.50	1	0	0.00				1	1	1.00			
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			
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			
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			
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			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	46	0	0.00	21	0	0.00	6	0	0.00	19	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



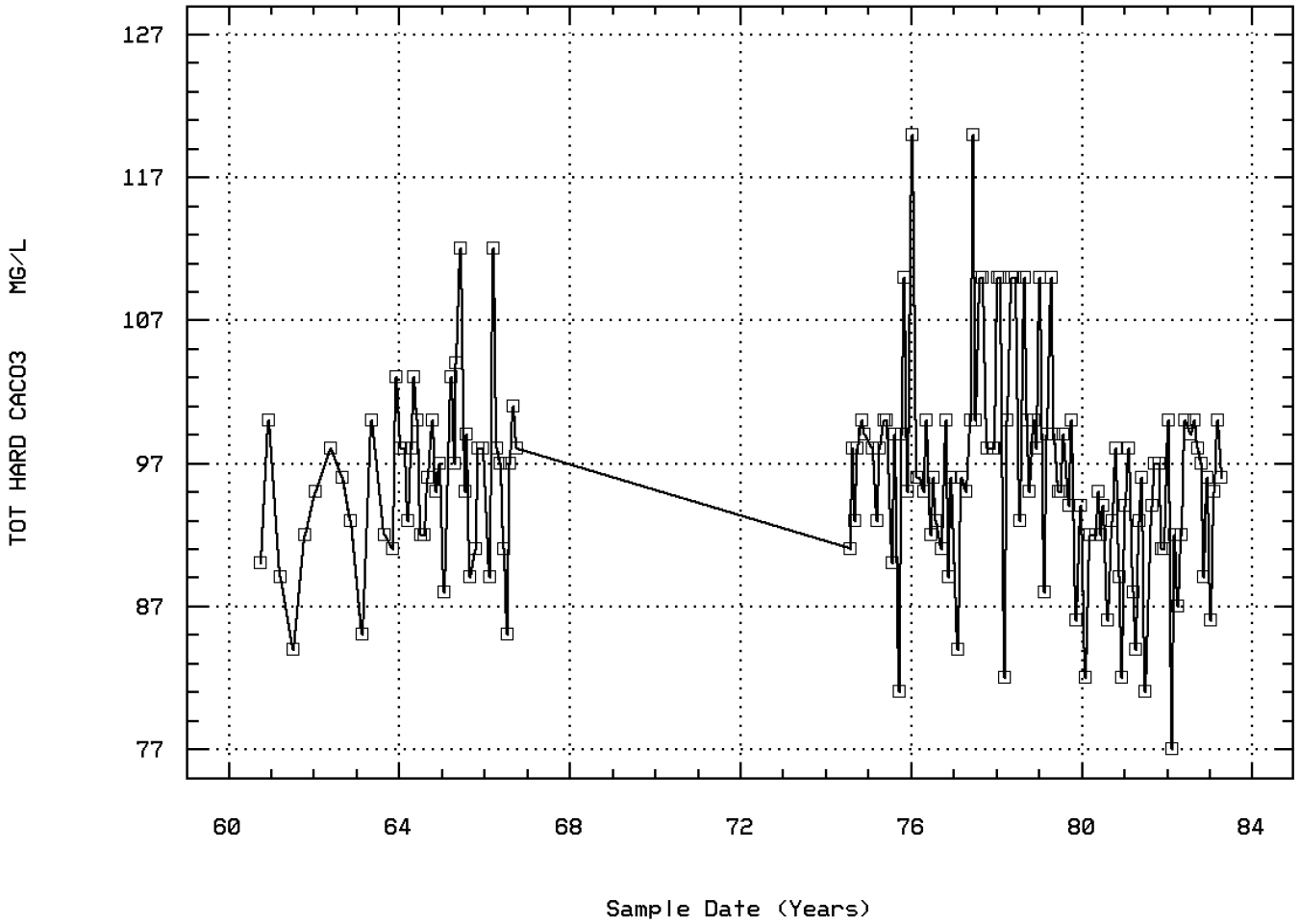
NIOBRARA RIVER NR NORDEN NEBR



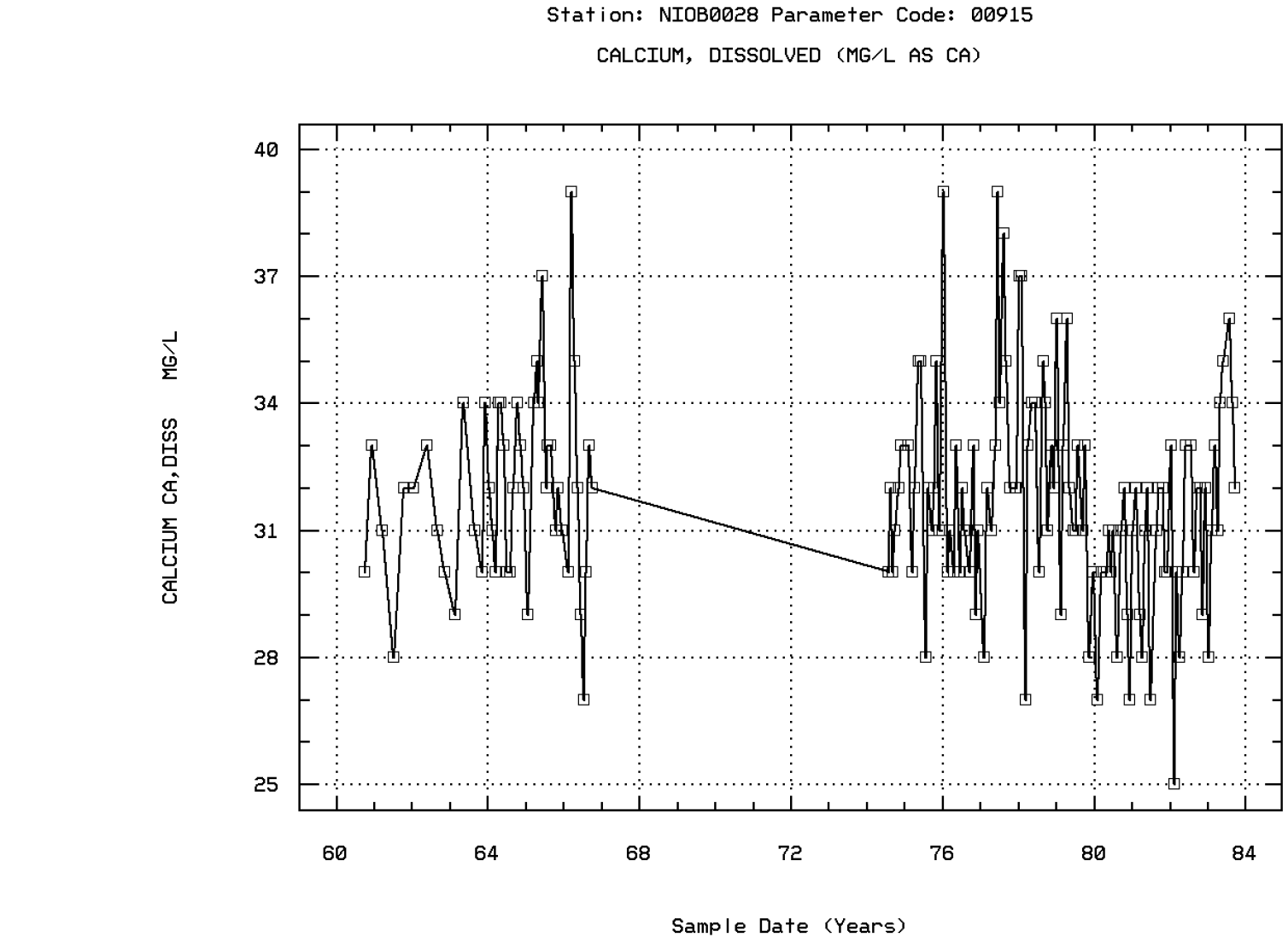
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Station: NIOB0028 Parameter Code: 00900

HARDNESS, TOTAL (MG/L AS CACO3)



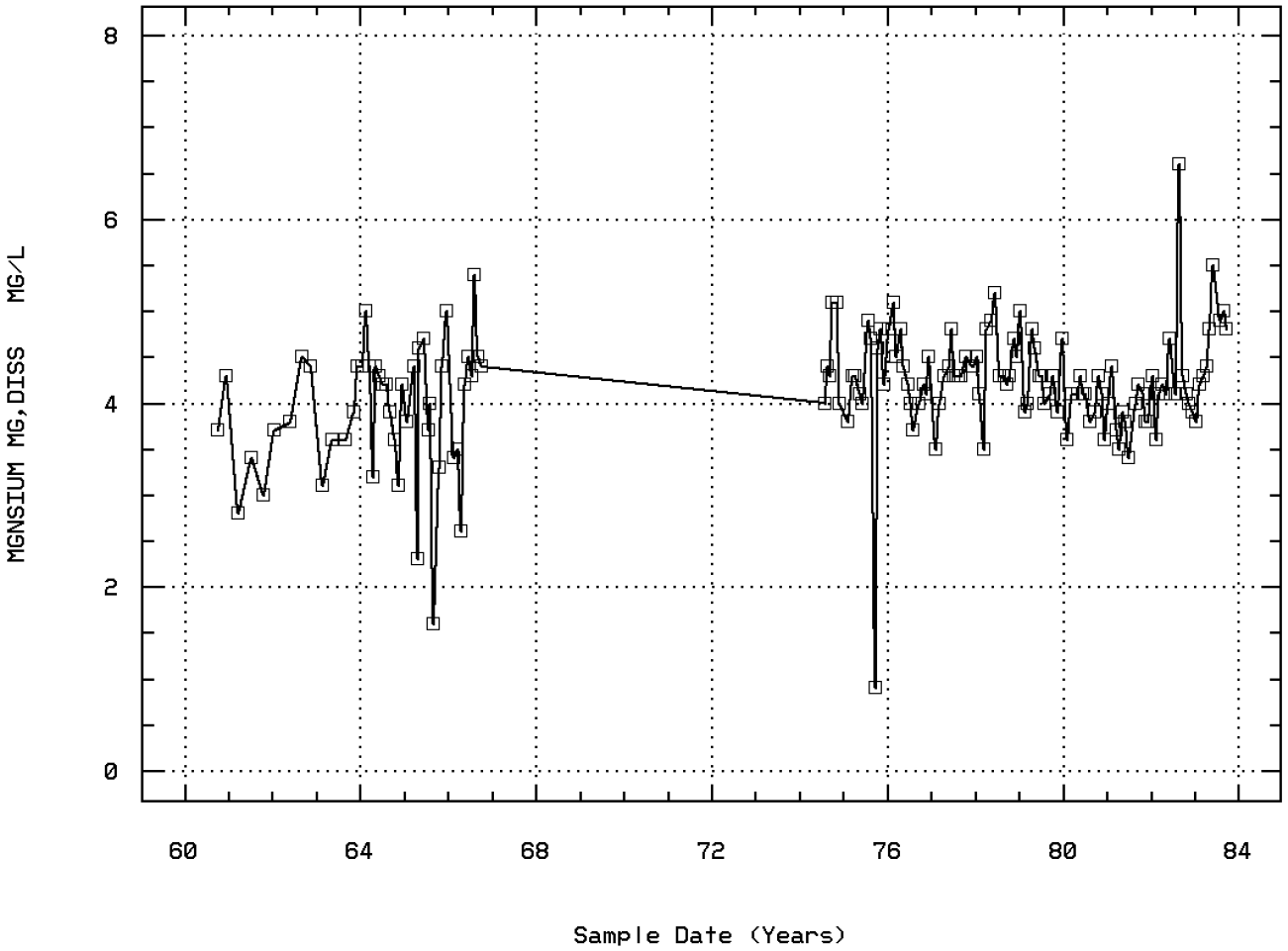
NIOBRARA RIVER NR NORDEN NEBR



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 00925

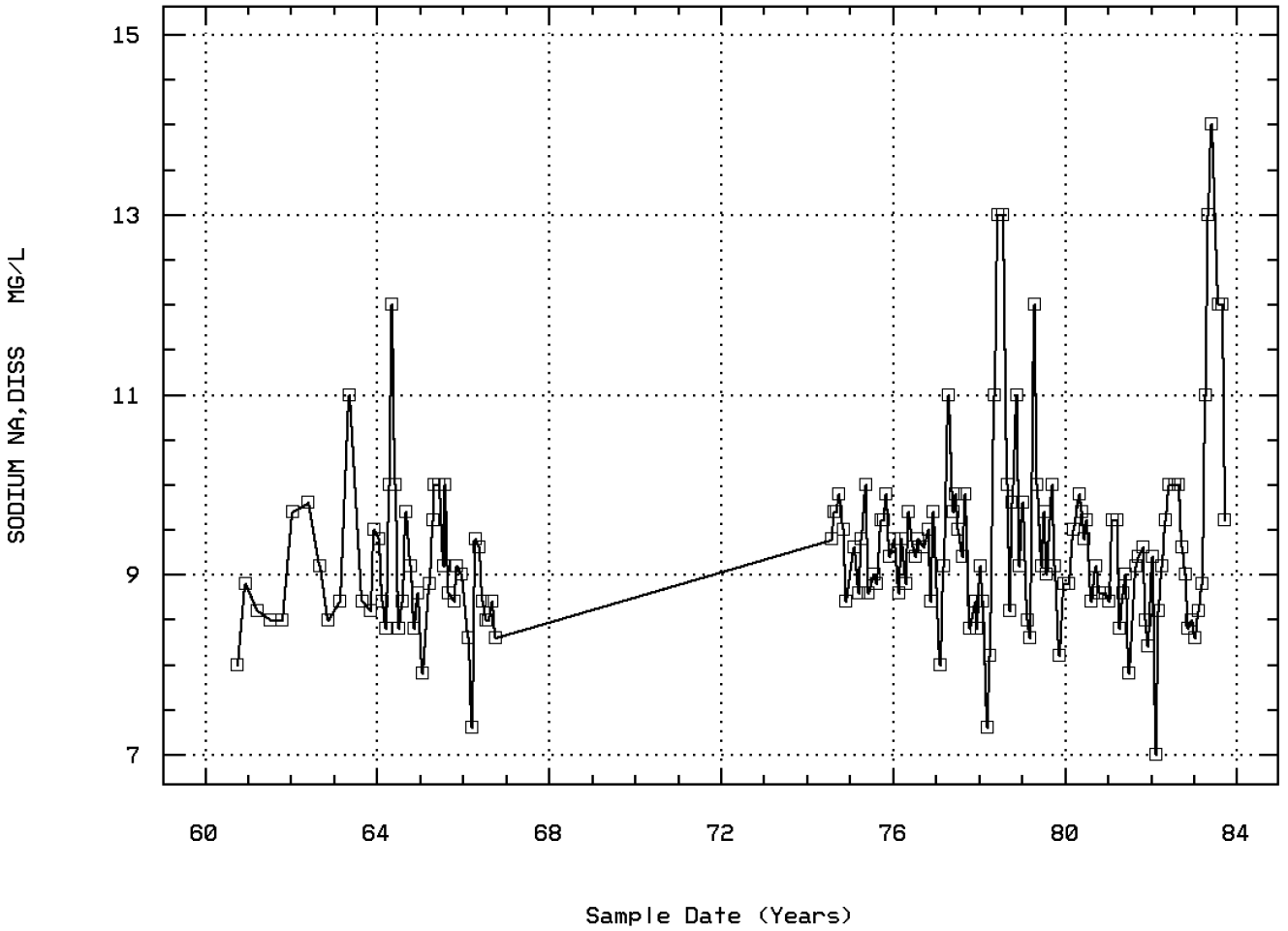
MAGNESIUM, DISSOLVED (MG/L AS MG)



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 00930

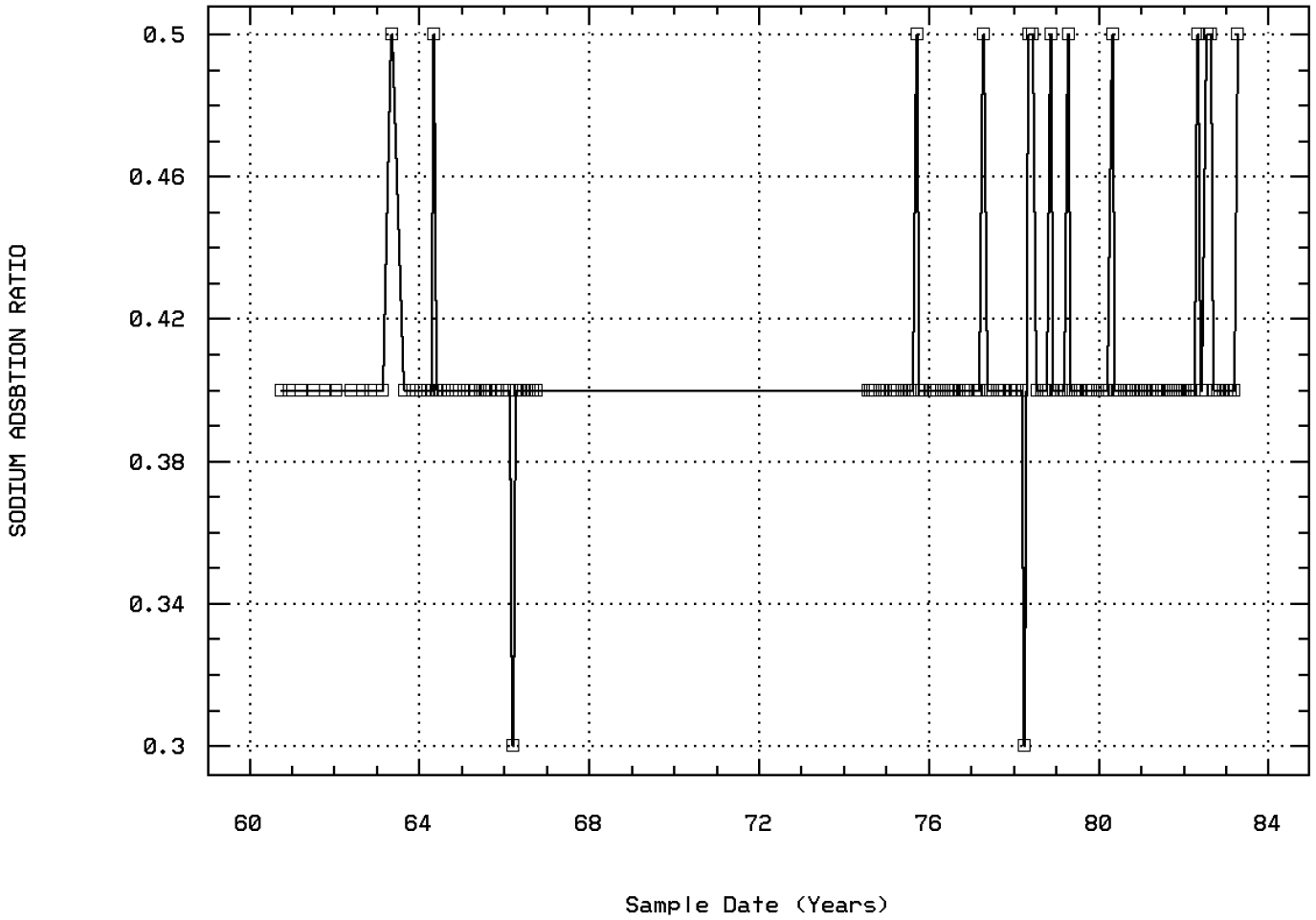
SODIUM, DISSOLVED (MG/L AS NA)



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 00931

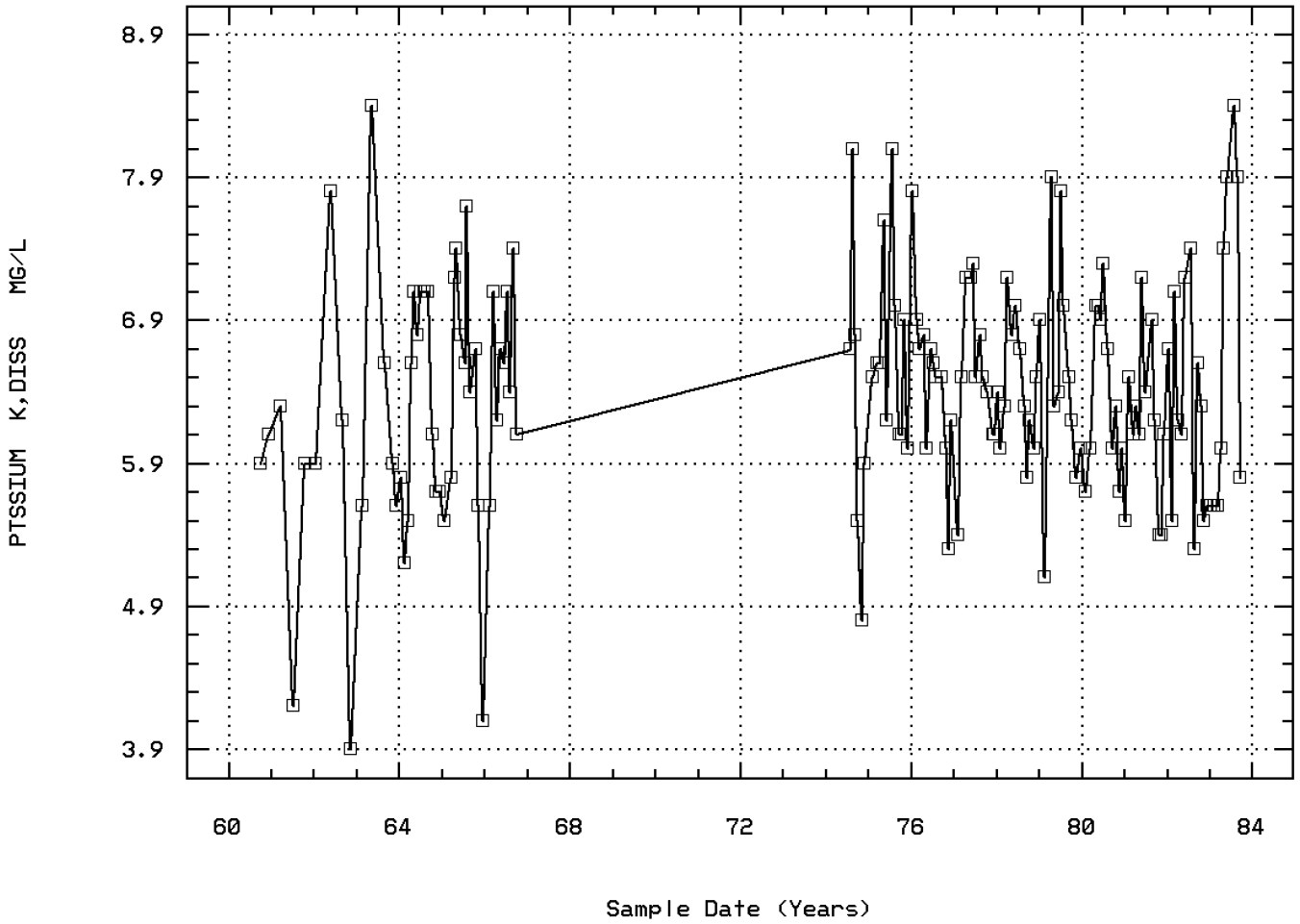
SODIUM ADSORPTION RATIO



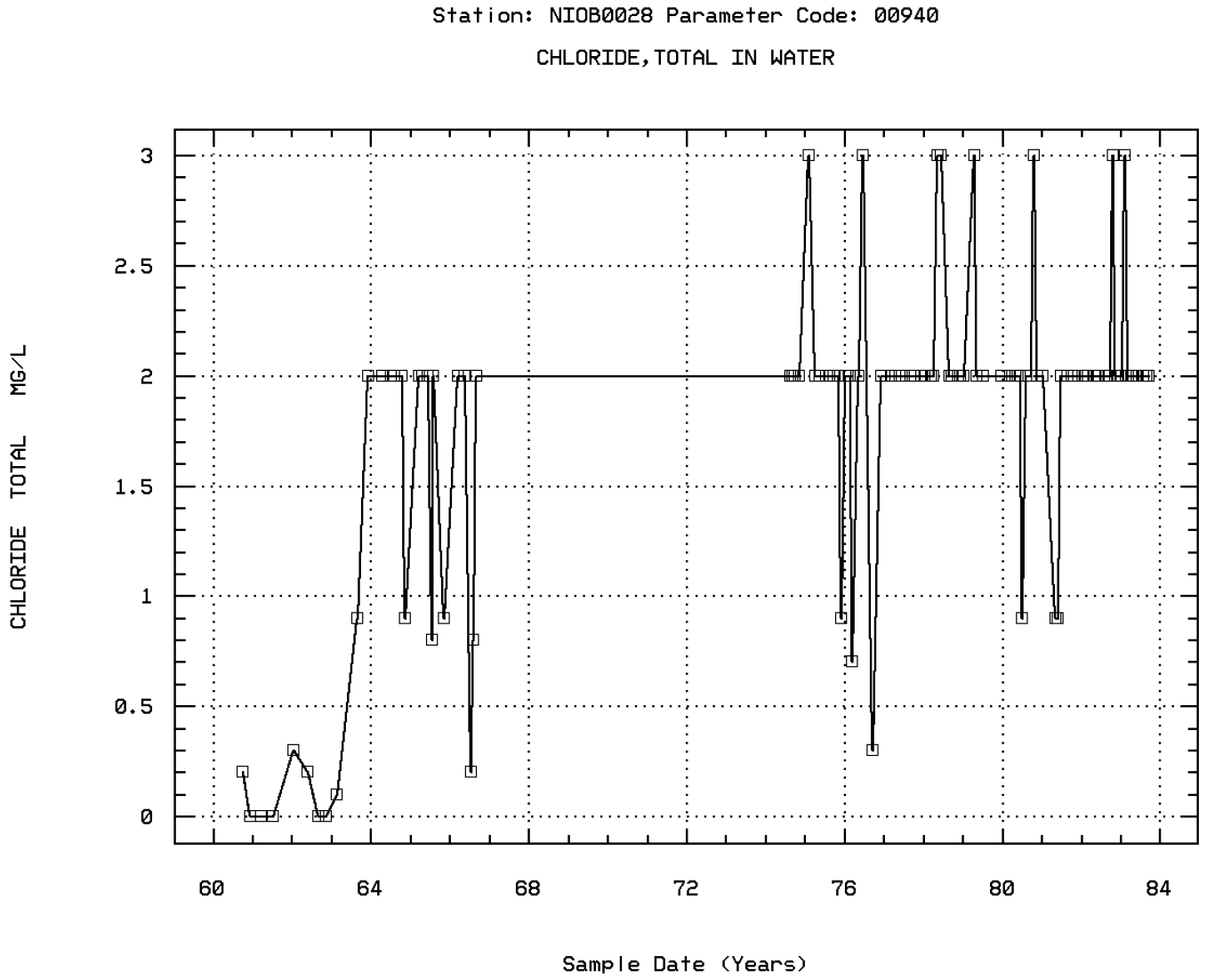
NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 00935

POTASSIUM, DISSOLVED (MG/L AS K)



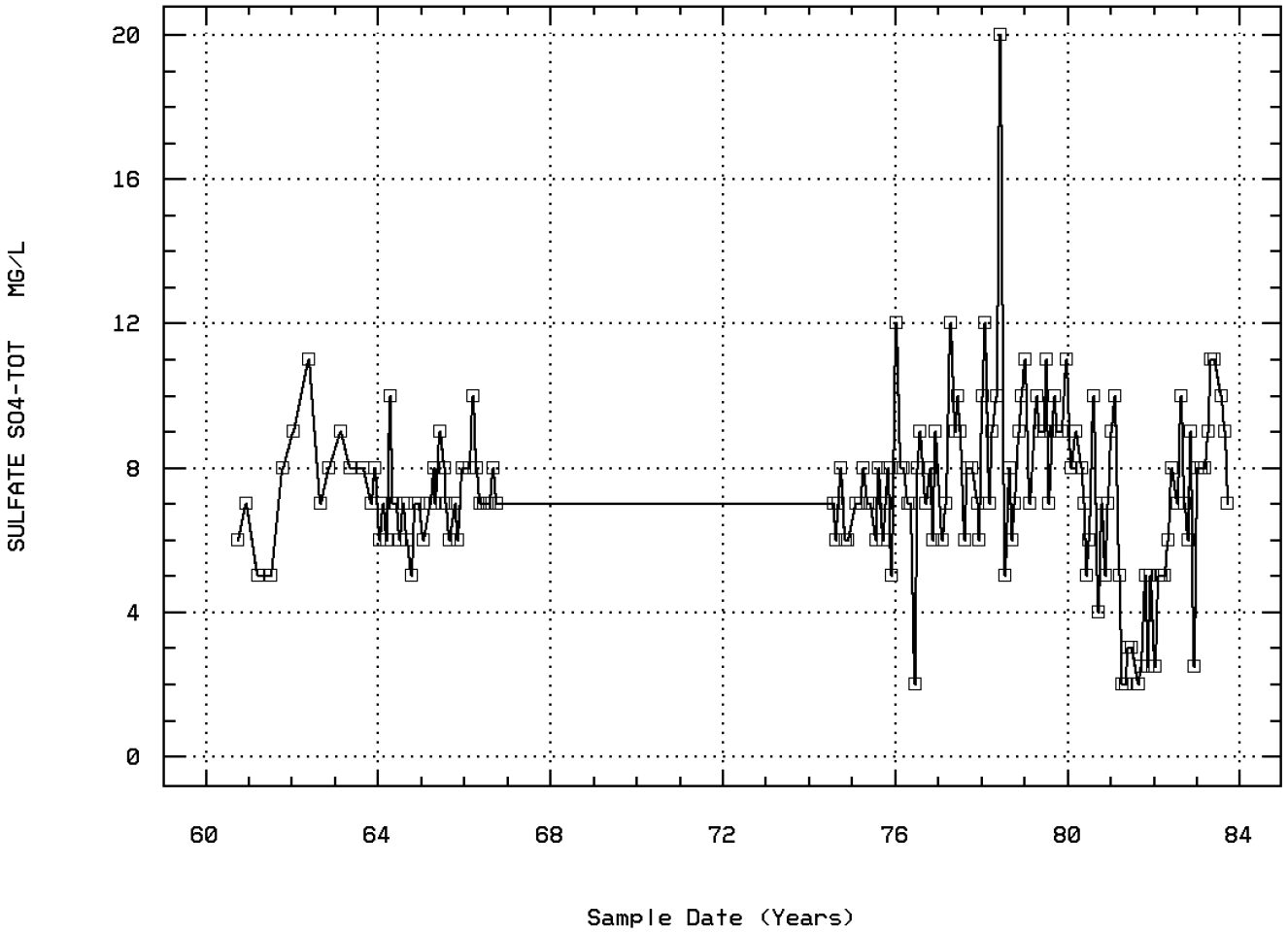
NIOBRARA RIVER NR NORDEN NEBR



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 00945

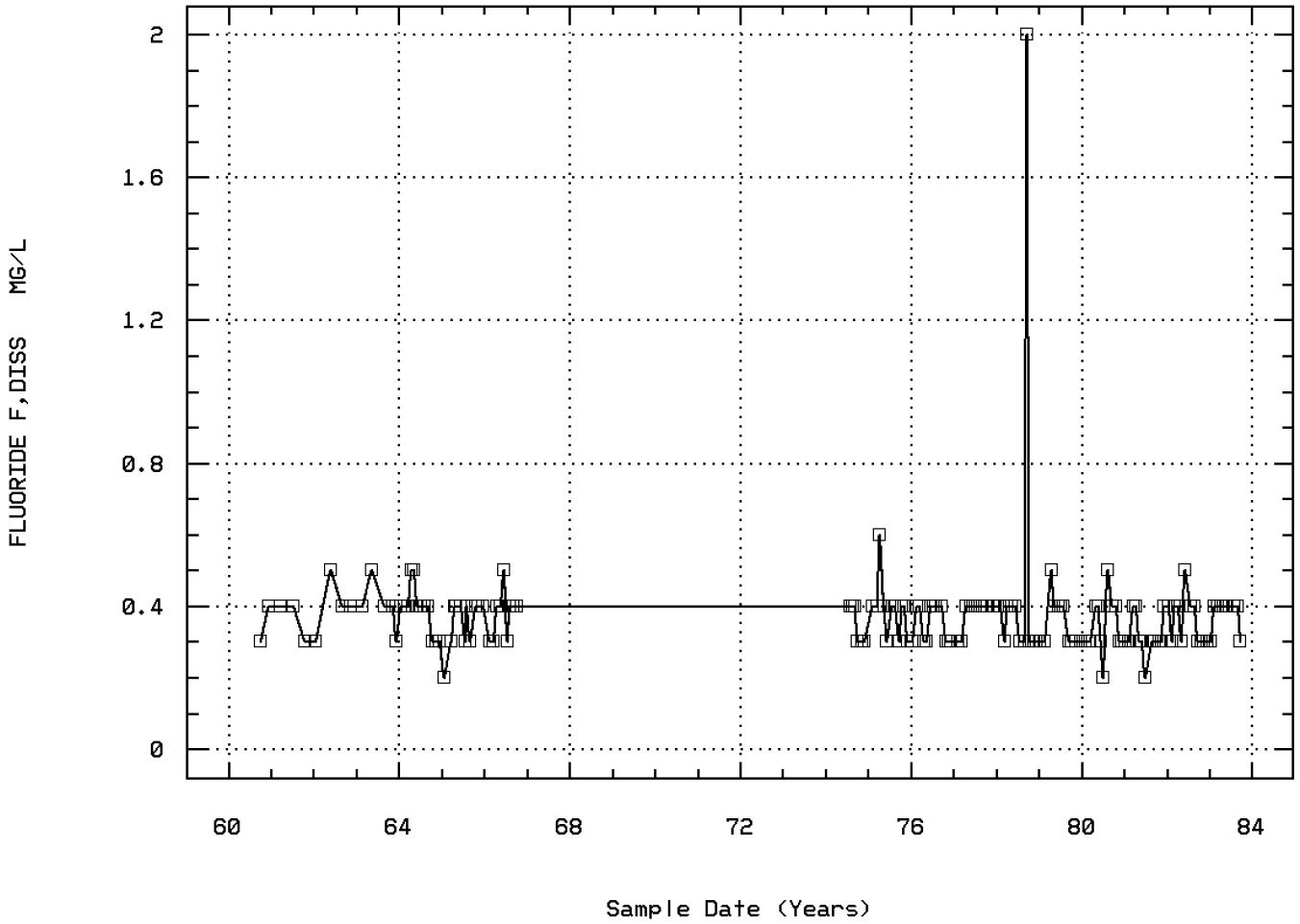
SULFATE, TOTAL (MG/L AS SO4)



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 00950

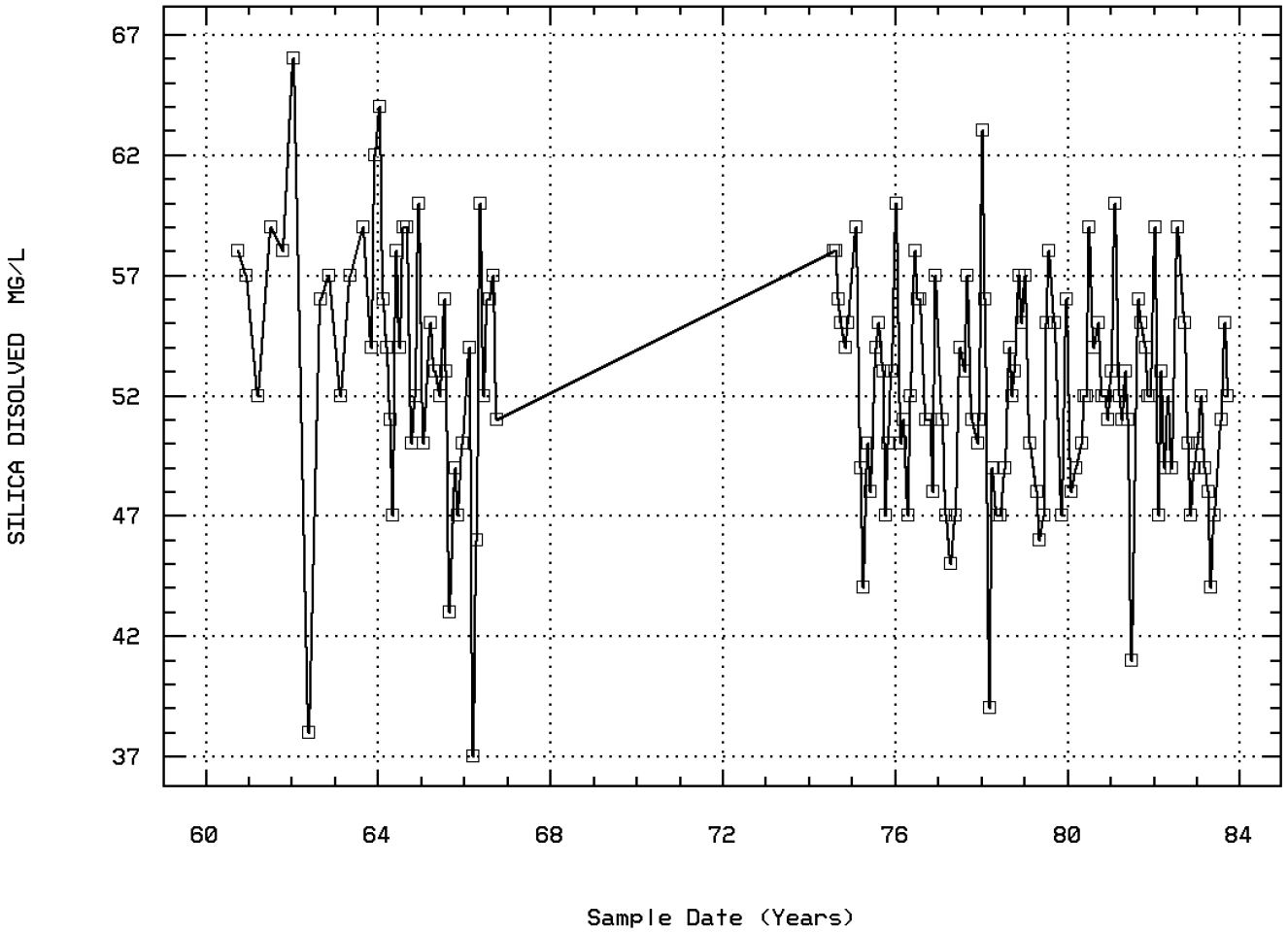
FLUORIDE, DISSOLVED (MG/L AS F)



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 00955

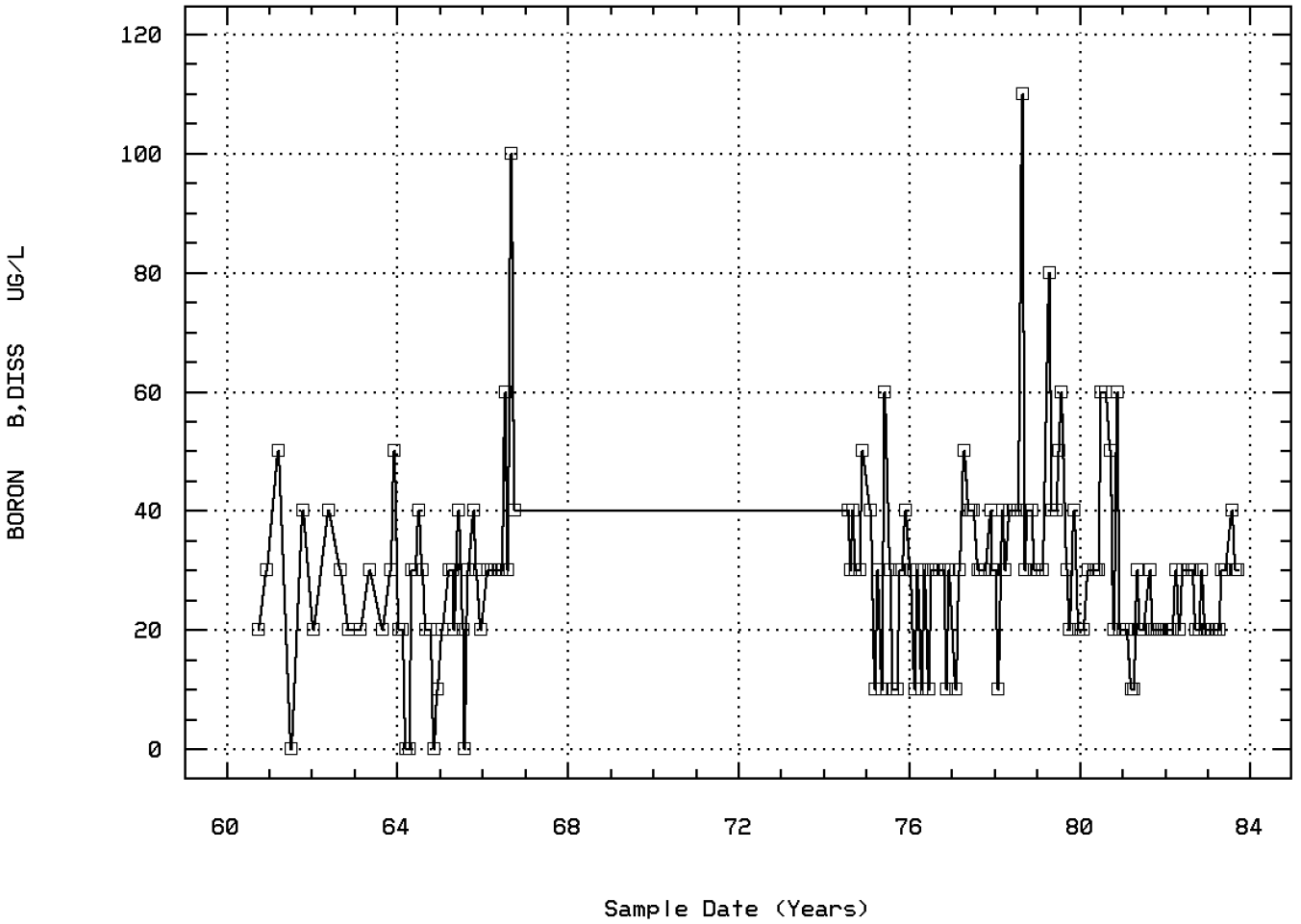
SILICA, DISSOLVED (MG/L AS SI02)



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 01020

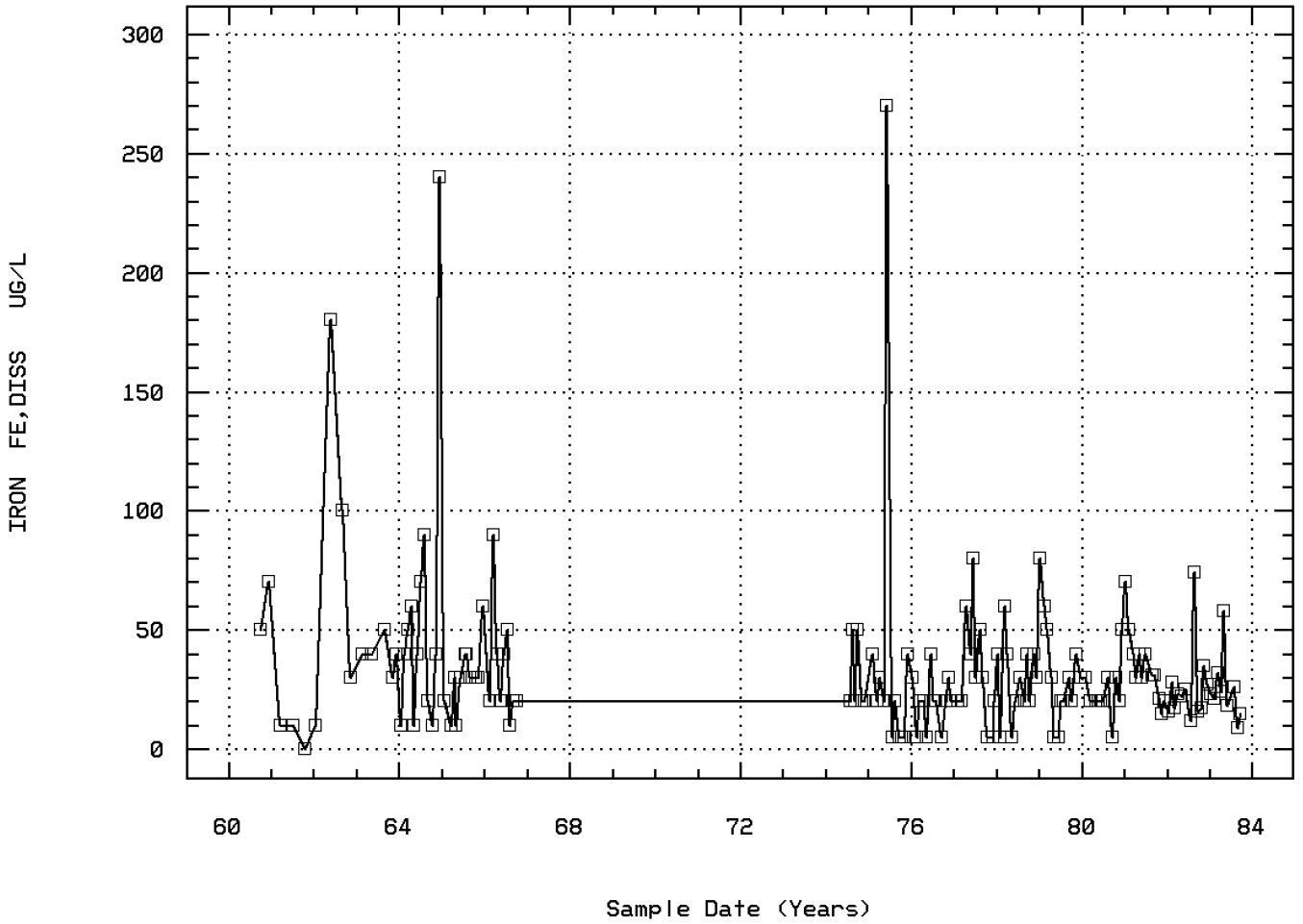
BORON, DISSOLVED (UG/L AS B)



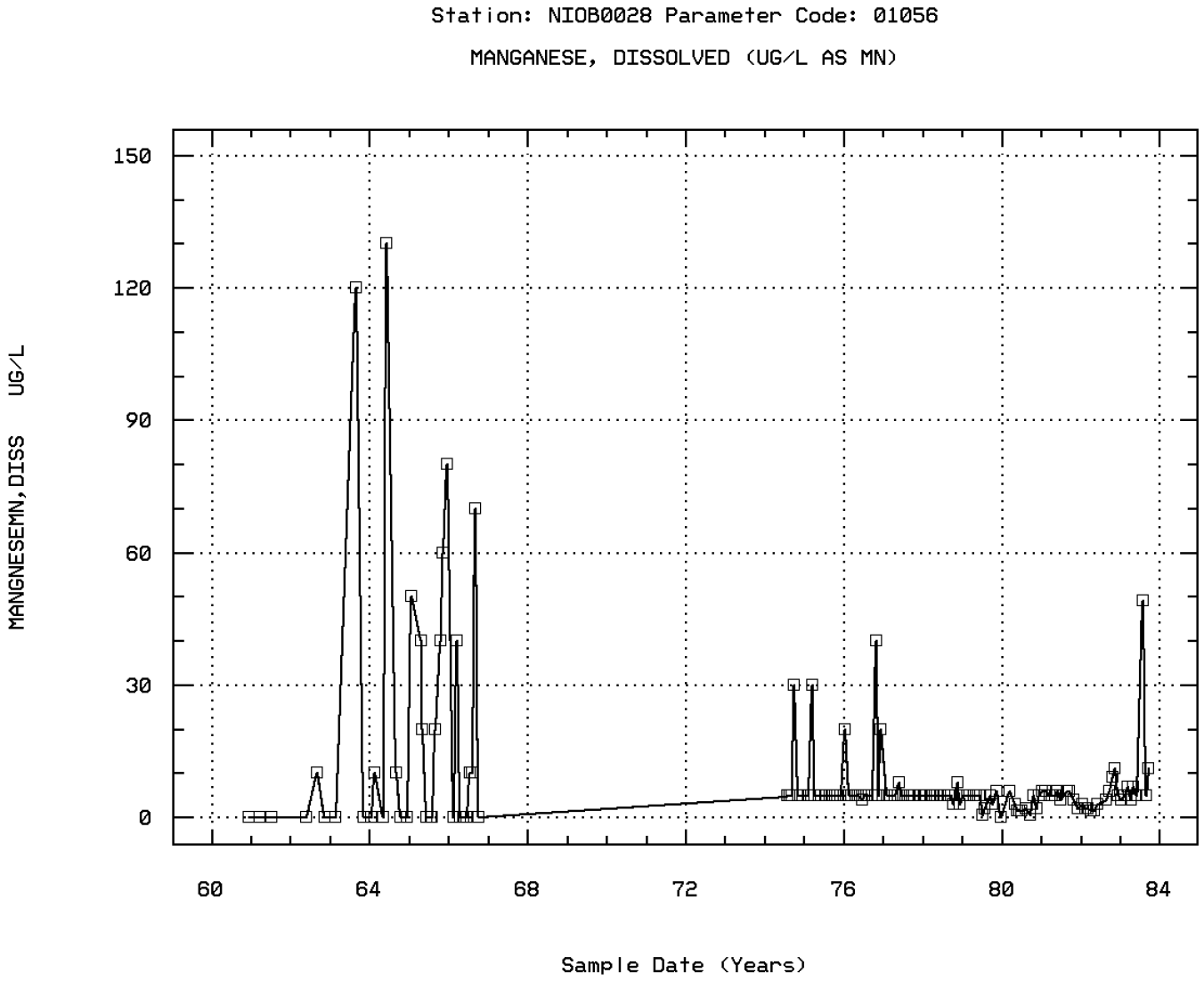
NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 01046

IRON, DISSOLVED (UG/L AS FE)



NIOBRARA RIVER NR NORDEN NEBR



NIOBRARA RIVER NR NORDEN NEBR

Annual Analysis for 1950 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/13/50-09/22/83	7	989.	988.143	1240.	703.	48428.476	220.065	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	04/13/50-09/28/67	7	24.	27.286	53.	11.	176.905	13.301	**	**	**	**
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	04/13/50-09/28/67	7	54.	54.571	74.	43.	114.619	10.706	**	**	**	**
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/08/50-09/28/67	6	94.	94.	95.	92.	1.2	1.095	**	**	**	**
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/08/50-09/28/67	6	100.	99.833	100.	99.	0.167	0.408	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/13/50-09/28/67	7	1170.	1571.143	4080.	548.	1428395.81	1195.155	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/13/50-09/28/67	7	3120.	3627.143	6440.	1040.	4608290.476	2146.693	**	**	**	**

** - 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 1952 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/52-09/22/83	8	14.25	11.75	20.	0.5	69.214	8.32	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/13/50-09/22/83	13	837.	839.462	1070.	728.	12278.269	110.807	729.2	732.	917.	1042.
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	04/13/50-09/28/67	13	12.	13.923	27.	5.	40.244	6.344	6.2	9.	17.5	25.8
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	04/13/50-09/28/67	13	43.	42.154	63.	23.	161.141	12.694	24.2	30.5	52.5	62.2
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/08/50-09/28/67	13	92.	90.385	97.	81.	26.923	5.189	81.4	86.	95.	96.2
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/08/50-09/28/67	13	100.	99.538	100.	96.	1.269	1.127	97.2	99.5	100.	100.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/13/50-09/28/67	13	1100.	1206.923	2140.	437.	231074.577	480.702	559.4	905.	1580.	2044.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/13/50-09/28/67	13	2310.	2819.231	5780.	1080.	2161224.359	1470.11	1236.	1790.	3725.	5664.

** - 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 1953 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/52-09/22/83	10	14.	13.8	28.	0.	105.122	10.253	0.	4.875	24.25	27.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/13/50-09/22/83	23	944.	1052.087	2180.	650.	164689.265	405.819	701.	778.	1170.	1864.
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	04/13/50-09/28/67	22	13.5	15.909	46.	8.	66.753	8.17	9.6	11.	18.	26.1
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	04/13/50-09/28/67	22	33.	36.773	59.	27.	75.898	8.712	28.6	30.75	44.25	51.1
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/08/50-09/28/67	22	87.	85.136	96.	67.	63.266	7.954	72.9	77.75	90.75	94.
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/08/50-09/28/67	22	100.	99.545	100.	96.	0.831	0.912	99.	99.	100.	100.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/13/50-09/28/67	23	924.	1409.043	3520.	509.	847793.316	920.757	566.8	714.	1980.	2992.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/13/50-09/28/67	23	2360.	3994.043	15300.	963.	16338079.68	4042.039	1182.	1410.	4640.	12800.

** - 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 1955 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/52-09/22/83	4	23.75	23.75	29.5	18.	27.083	5.204	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/13/50-09/22/83	6	744.	782.5	1050.	656.	21784.3	147.595	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	04/13/50-09/28/67	6	24.5	30.667	64.	14.	339.867	18.435	**	**	**	**
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	04/13/50-09/28/67	6	43.	46.333	77.	26.	324.267	18.007	**	**	**	**
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/08/50-09/28/67	6	88.	87.	93.	76.	42.4	6.512	**	**	**	**
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/08/50-09/28/67	6	100.	100.	100.	100.	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/13/50-09/28/67	6	382.	493.667	1040.	306.	74405.467	272.774	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/13/50-09/28/67	6	790.	1167.833	3250.	645.	1048393.767	1023.911	**	**	**	**

** - 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 1956 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/52-09/22/83	4	6.75	6.875	13.5	0.5	30.229	5.498	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/13/50-09/22/83	8	996.5	957.75	1040.	798.	10397.929	101.97	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	04/13/50-09/28/67	4	12.5	11.25	18.	2.	46.25	6.801	**	**	**	**
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	04/13/50-09/28/67	4	29.	26.	36.	10.	125.333	11.195	**	**	**	**
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/08/50-09/28/67	4	79.	76.5	84.	64.	81.	9.	**	**	**	**
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/08/50-09/28/67	4	99.5	99.	100.	97.	2.	1.414	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/13/50-09/28/67	8	1350.	1389.	2100.	756.	262586.286	512.432	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/13/50-09/28/67	8	3635.	3700.	5900.	1630.	2652742.857	1628.724	**	**	**	**

** - 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 1957 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/52-09/22/83	10	9.25	10.2	26.5	0.	71.622	8.463	0.	3.375	16.375	25.75
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/13/50-09/22/83	22	1090.	1143.909	1620.	843.	39489.61	198.72	884.1	1020.	1270.	1521.
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	04/13/50-09/28/67	11	13.	12.182	21.	2.	28.164	5.307	2.4	11.	15.	20.
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	04/13/50-09/28/67	11	28.	26.364	36.	11.	67.055	8.189	11.2	22.	32.	35.4
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/08/50-09/28/67	11	78.	76.455	82.	68.	17.473	4.18	69.	74.	79.	81.8
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/08/50-09/28/67	11	99.	99.455	100.	99.	0.273	0.522	99.	99.	100.	100.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/13/50-09/28/67	22	1320.	1336.	1950.	946.	83539.048	289.031	980.2	1080.	1580.	1845.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/13/50-09/28/67	22	4045.	4143.636	6910.	2840.	1521557.576	1233.514	2846.	3090.	4700.	6484.

** - 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 1960 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00080	COLOR (PLATINUM-COBALT UNITS)	09/28/60-09/22/83	2	5.	5.	8.	2.	18.	4.243	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-09/22/83	2	232.5	232.5	243.	222.	220.5	14.849	**	**	**	**
00400p	PH (STANDARD UNITS)	09/28/60-09/22/83	2	7.25	7.25	7.4	7.1	0.045	0.212	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-09/22/83	2	7.225	7.225	7.4	7.1	0.046	0.215	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-09/22/83	2	0.06	0.06	0.079	0.04	0.001	0.028	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/28/60-09/18/78	2	134.	134.	140.	128.	72.	8.485	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/28/60-09/18/78	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-04/06/83	2	95.	95.	100.	90.	50.	7.071	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-09/24/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-09/22/83	2	31.5	31.5	33.	30.	4.5	2.121	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-09/22/83	2	4.	4.	4.3	3.7	0.18	0.424	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-09/22/83	2	8.45	8.45	8.9	8.	0.405	0.636	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/28/60-04/06/83	2	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-09/22/83	2	6.	6.	6.1	5.9	0.02	0.141	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-09/22/83	2	0.1	0.1	0.2	0.	0.02	0.141	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-09/22/83	2	6.5	6.5	7.	6.	0.5	0.707	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-09/22/83	2	0.35	0.35	0.4	0.3	0.005	0.071	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-09/22/83	2	57.5	57.5	58.	57.	0.5	0.707	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	09/28/60-09/22/83	2	25.	25.	30.	20.	50.	7.071	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	09/28/60-09/22/83	2	60.	60.	70.	50.	200.	14.142	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/13/60-09/22/83	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 1961 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00080	COLOR (PLATINUM-COBALT UNITS)	09/28/60-09/22/83	3	7.	8.667	13.	6.	14.333	3.786	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-09/22/83	3	223.	222.	229.	214.	57.	7.55	**	**	**	**
00400p	PH (STANDARD UNITS)	09/28/60-09/22/83	3	7.5	7.367	7.5	7.1	0.053	0.231	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-09/22/83	3	7.5	7.323	7.5	7.1	0.056	0.237	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-09/22/83	3	0.032	0.048	0.079	0.032	0.001	0.028	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/28/60-09/18/78	3	127.	125.667	128.	122.	10.333	3.215	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/28/60-09/18/78	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-04/06/83	3	89.	88.333	92.	84.	16.333	4.041	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-09/24/80	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-09/22/83	3	31.	30.333	32.	28.	4.333	2.082	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-09/22/83	3	3.	3.067	3.4	2.8	0.093	0.306	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-09/22/83	3	8.5	8.533	8.6	8.5	0.003	0.058	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/28/60-04/06/83	3	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-09/22/83	3	5.9	5.467	6.3	4.2	1.243	1.115	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-09/22/83	3	0.	0.333	1.	0.	0.333	0.577	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-09/22/83	3	5.	6.	8.	5.	3.	1.732	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-09/22/83	3	0.4	0.367	0.4	0.3	0.003	0.058	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-09/22/83	3	58.	56.333	59.	52.	14.333	3.786	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	09/28/60-09/22/83	3	40.	30.	50.	0.	700.	26.458	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	09/28/60-09/22/83	3	10.	6.667	10.	0.	33.333	5.774	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/13/60-09/22/83	2	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 1962 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00080	COLOR (PLATINUM-COBALT UNITS)	09/28/60-09/22/83	4	4.5	14.25	45.	3.	420.917	20.516	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-09/22/83	4	237.	237.25	246.	229.	54.25	7.365	**	**	**	**
00400p	PH (STANDARD UNITS)	09/28/60-09/22/83	4	7.6	7.525	7.7	7.2	0.056	0.236	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-09/22/83	4	7.589	7.473	7.7	7.2	0.059	0.244	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-09/22/83	4	0.026	0.034	0.063	0.02	0.	0.02	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/28/60-09/18/78	4	136.5	135.75	138.	132.	8.25	2.872	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/28/60-09/18/78	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-04/06/83	4	95.5	95.5	98.	93.	4.333	2.082	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-09/24/80	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-09/22/83	4	31.5	31.5	33.	30.	1.667	1.291	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-09/22/83	4	4.1	4.1	4.5	3.7	0.167	0.408	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-09/22/83	4	9.4	9.275	9.8	8.5	0.363	0.602	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/28/60-04/06/83	4	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-09/22/83	4	6.05	5.95	7.8	3.9	2.563	1.601	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-09/22/83	4	0.1	0.125	0.3	0.	0.023	0.15	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-09/22/83	4	8.5	8.75	11.	7.	2.917	1.708	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-09/22/83	4	0.4	0.4	0.5	0.3	0.007	0.082	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-09/22/83	4	56.5	54.25	66.	38.	137.583	11.73	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	09/28/60-09/22/83	4	25.	27.5	40.	20.	91.667	9.574	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	09/28/60-09/22/83	4	65.	80.	180.	10.	5933.333	77.028	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/13/60-09/22/83	3	0.	3.333	10.	0.	33.333	5.774	**	**	**	**

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Annual Analysis for 1963 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/52-09/22/83	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	09/28/60-09/22/83	3	2.	2.	2.	2.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-09/22/83	5	227.	232.6	256.	212.	301.8	17.372	**	**	**	**
00400p	PH (STANDARD UNITS)	09/28/60-09/22/83	5	7.7	7.72	8.	7.5	0.037	0.192	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-09/22/83	5	7.7	7.688	8.	7.5	0.038	0.196	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-09/22/83	5	0.02	0.021	0.032	0.01	0.	0.008	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/28/60-09/18/78	5	134.	135.	148.	119.	126.5	11.247	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/28/60-09/18/78	5	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-04/06/83	5	92.	94.2	103.	85.	52.7	7.259	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-09/24/80	5	0.	0.	0.	0.	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-09/22/83	5	31.	31.6	34.	29.	5.3	2.302	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-09/22/83	5	3.6	3.72	4.4	3.1	0.227	0.476	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-09/22/83	5	8.7	9.3	11.	8.6	1.035	1.017	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/28/60-04/06/83	5	0.4	0.42	0.5	0.4	0.002	0.045	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-09/22/83	5	5.9	6.42	8.4	5.6	1.392	1.18	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-09/22/83	5	1.	1.	2.	0.1	0.455	0.675	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-09/22/83	5	8.	8.	9.	7.	0.5	0.707	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-09/22/83	5	0.4	0.4	0.5	0.3	0.005	0.071	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-09/22/83	5	57.	56.8	62.	52.	15.7	3.962	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	09/28/60-09/22/83	5	30.	30.	50.	20.	150.	12.247	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	09/28/60-09/22/83	5	40.	40.	50.	30.	50.	7.071	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/13/60-09/22/83	3	0.	40.	120.	0.	4800.	69.282	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/06/63-03/09/83	2	359.5	359.5	465.	254.	22260.5	149.2	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/06/63-03/09/83	2	0.26	0.26	0.27	0.25	0.	0.014	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	04/13/50-09/28/67	1	16.	16.	16.	16.	0.	0.	**	**	**	**
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	04/13/50-09/28/67	1	56.	56.	56.	56.	0.	0.	**	**	**	**
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/08/50-09/28/67	1	91.	91.	91.	91.	0.	0.	**	**	**	**
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/08/50-09/28/67	1	99.	99.	99.	99.	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/13/50-09/28/67	1	816.	816.	816.	816.	0.	0.	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/13/50-09/28/67	1	1940.	1940.	1940.	1940.	0.	0.	**	**	**	**

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Annual Analysis for 1964 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/52-09/22/83	17	12.8	12.376	29.4	0.	110.322	10.503	0.	1.1	21.35	29.
00080	COLOR (PLATINUM-COBALT UNITS)	09/28/60-09/22/83	3	5.	8.	15.	4.	37.	6.083	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-09/22/83	12	239.	238.083	257.	220.	120.083	10.958	222.1	230.	246.	255.5
00400p	PH (STANDARD UNITS)	09/28/60-09/22/83	12	7.6	7.608	8.	7.1	0.092	0.303	7.13	7.4	7.9	8.
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-09/22/83	12	7.6	7.512	8.	7.1	0.102	0.319	7.13	7.4	7.9	8.
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-09/22/83	12	0.025	0.031	0.079	0.01	0.	0.022	0.01	0.013	0.04	0.075
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/14/64-09/24/80	1	120.	120.	120.	120.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/28/60-09/18/78	12	137.	138.75	155.	129.	59.841	7.736	129.3	133.25	144.75	152.9
00445	CARBONATE ION (MG/L AS CO3)	09/28/60-09/18/78	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-04/06/83	12	97.5	96.833	103.	92.	11.606	3.407	92.	93.5	99.5	102.1
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-09/24/80	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-09/22/83	12	32.	32.083	34.	30.	2.447	1.564	30.	30.25	33.75	34.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-09/22/83	12	4.2	4.075	5.	3.1	0.295	0.543	3.13	3.675	4.4	4.82
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-09/22/83	12	8.95	9.3	12.	8.4	1.08	1.039	8.4	8.475	9.925	11.4
00931	SODIUM ADSORPTION RATIO	09/28/60-04/06/83	12	0.4	0.408	0.5	0.4	0.001	0.029	0.4	0.4	0.4	0.47
00932	SODIUM, PERCENT	10/14/64-04/06/83	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-09/22/83	12	6.35	6.317	7.1	5.2	0.523	0.723	5.29	5.7	7.1	7.1
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-09/22/83	12	1.	1.325	2.	0.9	0.249	0.499	0.93	1.	2.	2.
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-09/22/83	12	7.	6.75	10.	5.	1.477	1.215	5.3	6.	7.	9.1
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-09/22/83	12	0.4	0.392	0.5	0.3	0.004	0.067	0.3	0.325	0.4	0.5
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-09/22/83	12	55.	55.333	64.	47.	23.879	4.887	47.9	51.25	59.	62.8

** - 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 1964 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01020p	BORON, DISSOLVED (UG/L AS B)	09/28/60-09/22/83	12	20.	18.333	40.	0.	178.788	13.371	0.	2.5	30.	37.
01046p	IRON, DISSOLVED (UG/L AS FE)	09/28/60-09/22/83	12	40.	56.667	240.	10.	3969.697	63.006	10.	12.5	67.5	195.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/13/60-09/22/83	7	0.	21.429	130.	0.	2314.286	48.107	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/06/63-03/09/83	12	349.	409.333	608.	201.	20797.879	144.215	225.9	288.5	554.75	597.8
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/06/63-03/09/83	12	0.26	0.26	0.27	0.25	0.	0.007	0.25	0.253	0.268	0.27
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	04/13/50-09/28/67	13	18.	19.077	41.	3.	98.577	9.929	5.	11.	25.	35.8
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	04/13/50-09/28/67	13	37.	38.077	57.	15.	156.244	12.5	16.2	31.5	47.5	55.8
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/08/50-09/28/67	13	85.	84.923	96.	74.	43.244	6.576	74.8	79.5	89.5	94.8
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/08/50-09/28/67	13	99.	99.231	100.	97.	0.859	0.927	97.4	99.	100.	100.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/13/50-09/28/67	14	574.	695.	1460.	318.	124386.154	352.684	330.5	422.	918.25	1345.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/13/50-09/28/67	14	1375.	1445.357	2680.	335.	700706.863	837.082	420.5	710.75	2287.5	2640.

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Annual Analysis for 1965 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/52-09/22/83	24	16.4	13.963	26.7	0.	102.422	10.12	0.	1.25	22.2	25.85
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-09/22/83	11	240.	241.636	261.	217.	197.655	14.059	219.	231.	254.	260.8
00400p	PH (STANDARD UNITS)	09/28/60-09/22/83	11	7.3	7.445	7.9	7.1	0.059	0.242	7.14	7.3	7.7	7.86
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-09/22/83	11	7.3	7.391	7.9	7.1	0.062	0.249	7.14	7.3	7.7	7.86
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-09/22/83	11	0.05	0.041	0.079	0.013	0.	0.02	0.014	0.02	0.05	0.074
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/14/64-09/24/80	3	113.	113.333	115.	112.	2.333	1.528	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/28/60-09/18/78	11	142.	142.	154.	125.	59.2	7.694	127.2	138.	147.	153.2
00445	CARBONATE ION (MG/L AS CO3)	09/28/60-09/18/78	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-04/06/83	11	98.	97.636	112.	88.	49.655	7.047	88.2	91.	103.	110.4
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-09/24/80	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-09/22/83	11	33.	32.818	37.	29.	4.764	2.183	29.4	31.	34.	36.6
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-09/22/83	11	4.	3.8	5.	1.6	1.1	1.049	1.74	3.3	4.6	4.94
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-09/22/83	11	9.1	9.191	10.	7.9	0.433	0.658	8.06	8.8	10.	10.
00931	SODIUM ADSORPTION RATIO	09/28/60-04/06/83	11	0.4	0.4	0.4	0.4	0.	0.	0.4	0.4	0.4	0.4
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-09/22/83	11	6.6	6.345	7.7	4.1	1.069	1.034	4.38	5.6	7.2	7.64
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-09/22/83	11	1.	1.336	2.	0.8	0.281	0.53	0.82	1.	2.	2.
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-09/22/83	11	7.	7.182	9.	6.	0.964	0.982	6.	6.	8.	8.8
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-09/22/83	11	0.4	0.355	0.4	0.2	0.005	0.069	0.22	0.3	0.4	0.4
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-09/22/83	11	52.	51.	56.	43.	14.	3.742	43.8	49.	53.	55.8
01020p	BORON, DISSOLVED (UG/L AS B)	09/28/60-09/22/83	11	30.	25.455	40.	0.	127.273	11.282	4.	20.	30.	40.
01046p	IRON, DISSOLVED (UG/L AS FE)	09/28/60-09/22/83	11	30.	30.	60.	10.	200.	14.142	10.	20.	40.	56.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/13/60-09/22/83	10	30.	31.	80.	0.	765.556	27.669	0.	0.	52.5	78.
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/06/63-03/09/83	11	456.	430.273	701.	272.	17312.218	131.576	276.8	305.	506.	667.8
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/06/63-03/09/83	11	0.27	0.278	0.38	0.24	0.002	0.039	0.24	0.26	0.3	0.364
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	04/13/50-09/28/67	11	20.	19.818	42.	3.	120.964	10.998	3.4	13.	26.	39.
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	04/13/50-09/28/67	11	44.	42.636	66.	19.	200.855	14.172	19.2	34.	50.	64.4
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/08/50-09/28/67	11	85.	86.818	96.	78.	34.964	5.913	78.6	82.	93.	95.6
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/08/50-09/28/67	11	100.	99.455	100.	98.	0.673	0.82	98.	99.	100.	100.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/13/50-09/28/67	13	782.	794.077	1580.	416.	99874.744	316.03	431.6	540.	944.	1384.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/13/50-09/28/67	13	1420.	1735.077	3990.	638.	897174.41	947.193	678.	1150.	2270.	3594.

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Annual Analysis for 1966 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/52-09/22/83	28	18.95	15.507	32.2	0.	119.926	10.951	0.45	5.6	23.475	31.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/13/50-09/22/83	5	725.	770.4	927.	622.	18485.3	135.961	**	**	**	**

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Annual Analysis for 1966 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00080	COLOR (PLATINUM-COBALT UNITS)	09/28/60-09/22/83	2	6.5	6.5	10.	3.	24.5	4.95	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-09/22/83	9	240.	238.667	258.	220.	153.25	12.379	220.	228.5	249.5	258.
00400p	PH (STANDARD UNITS)	09/28/60-09/22/83	9	7.6	7.578	7.9	7.2	0.057	0.239	7.2	7.4	7.8	7.9
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-09/22/83	9	7.6	7.52	7.9	7.2	0.061	0.246	7.2	7.4	7.8	7.9
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-09/22/83	9	0.025	0.03	0.063	0.013	0.	0.017	0.013	0.016	0.04	0.063
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/14/64-09/24/80	9	115.	113.556	123.	105.	33.778	5.812	105.	107.5	117.	123.
00440	BICARBONATE ION (MG/L AS HCO3)	09/28/60-09/18/78	9	140.	138.444	150.	128.	51.028	7.143	128.	131.	143.	150.
00445	CARBONATE ION (MG/L AS CO3)	09/28/60-09/18/78	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-04/06/83	9	97.	96.444	112.	85.	60.528	7.78	85.	90.	99.5	112.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-09/24/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-09/22/83	9	32.	31.889	39.	27.	12.611	3.551	27.	29.5	34.	39.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-09/22/83	9	4.3	4.089	5.4	2.6	0.656	0.81	2.6	3.45	4.5	5.4
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-09/22/83	9	8.5	8.556	9.4	7.3	0.378	0.615	7.3	8.3	9.	9.4
00931	SODIUM ADSORPTION RATIO	09/28/60-04/06/83	9	0.4	0.389	0.4	0.3	0.001	0.033	0.3	0.4	0.4	0.4
00932	SODIUM, PERCENT	10/14/64-04/06/83	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-09/22/83	9	6.6	6.578	7.4	5.6	0.324	0.57	5.6	6.15	7.1	7.4
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-09/22/83	9	1.	1.222	2.	0.2	0.404	0.636	0.2	0.9	2.	2.
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-09/22/83	9	7.	7.667	10.	7.	1.	1.	7.	7.	8.	10.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-09/22/83	9	0.4	0.378	0.5	0.3	0.004	0.067	0.3	0.3	0.4	0.5
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-09/22/83	9	54.	52.111	60.	37.	48.361	6.954	37.	48.5	56.5	60.
01020p	BORON, DISSOLVED (UG/L AS B)	09/28/60-09/22/83	9	30.	42.222	100.	30.	569.444	23.863	30.	30.	50.	100.
01046p	IRON, DISSOLVED (UG/L AS FE)	09/28/60-09/22/83	9	20.	34.444	90.	10.	602.778	24.552	10.	20.	45.	90.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/13/60-09/22/83	9	0.	14.444	70.	0.	602.778	24.552	0.	0.	25.	70.
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/06/63-03/09/83	9	529.	761.668	2620.01	285.	526729.396	725.761	285.	351.	810.5	2620.01
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/06/63-03/09/83	9	0.35	0.353	0.59	0.23	0.016	0.126	0.23	0.245	0.45	0.59
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	04/13/50-09/28/67	20	12.	16.85	40.	6.	110.661	10.52	7.	10.	20.	37.7
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	04/13/50-09/28/67	20	29.5	31.35	55.	16.	141.924	11.913	17.1	21.75	37.	54.6
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/08/50-09/28/67	20	78.5	77.6	92.	56.	57.095	7.556	69.3	72.75	80.75	87.
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/08/50-09/28/67	20	99.	98.95	100.	95.	1.524	1.234	98.	98.	100.	100.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/13/50-09/28/67	21	870.	1110.81	2270.	300.	433654.662	658.525	367.6	521.	1785.	2208.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/13/50-09/28/67	21	2390.	3090.857	13700.	443.	9039638.529	3006.599	575.6	987.5	4525.	6386.

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Annual Analysis for 1967 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/52-09/22/83	13	18.5	16.538	30.5	0.	87.061	9.331	0.2	10.25	23.75	28.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/13/50-09/22/83	13	775.	1098.923	2890.	516.	656571.41	810.291	526.8	600.5	1541.	2678.
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	04/13/50-09/28/67	13	13.	29.846	89.	4.	991.974	31.496	4.8	9.5	51.	88.2
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	04/13/50-09/28/67	13	31.	43.077	97.	11.	965.577	31.074	13.8	21.	68.5	96.2
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/08/50-09/28/67	13	85.	84.077	99.	47.	177.41	13.32	58.2	80.5	92.5	99.
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/08/50-09/28/67	13	100.	99.154	100.	90.	7.641	2.764	93.6	100.	100.	100.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/13/50-09/28/67	13	788.	784.231	1270.	304.	83594.359	289.127	356.8	559.	964.	1250.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/13/50-09/28/67	13	1550.	2467.692	6620.	648.	4455967.231	2110.916	656.	807.	3810.	6492.

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Annual Analysis for 1974 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/52-09/22/83	6	20.	16.5	28.	0.	144.7	12.029	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/74-09/22/83	6	27.	20.333	34.	-1.5	208.767	14.449	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/13/50-09/22/83	6	560.	564.	704.	464.	7192.4	84.808	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	09/28/60-09/22/83	6	4.	7.167	20.	3.	42.567	6.524	**	**	**	**

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Annual Analysis for 1974 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-09/22/83	6	234.	233.333	242.	225.	34.267	5.854	**	**	**	**
00400p	PH (STANDARD UNITS)	09/28/60-09/22/83	6	7.85	7.95	8.8	7.5	0.219	0.468	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-09/22/83	6	7.847	7.802	8.8	7.5	0.245	0.495	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-09/22/83	6	0.014	0.016	0.032	0.002	0.	0.011	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	07/31/74-09/18/78	6	3.15	3.517	7.	0.3	6.142	2.478	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/14/64-09/24/80	6	113.5	113.167	116.	110.	4.167	2.041	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/28/60-09/18/78	6	138.5	137.333	141.	130.	14.667	3.83	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/28/60-09/18/78	6	0.	0.333	2.	0.	0.667	0.816	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/31/74-09/22/83	6	0.15	0.197	0.5	0.03	0.032	0.18	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/31/74-09/22/83	6	0.07	0.07	0.11	0.02	0.001	0.033	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-04/06/83	6	98.	96.5	100.	91.	13.1	3.619	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-09/24/80	6	0.	0.	0.	0.	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-09/22/83	6	31.5	31.333	33.	30.	1.467	1.211	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-09/22/83	6	4.35	4.483	5.1	4.	0.254	0.504	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-09/22/83	6	9.6	9.483	9.9	8.7	0.178	0.422	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/28/60-04/06/83	6	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	10/14/64-04/06/83	6	16.5	16.333	17.	15.	0.667	0.816	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-09/22/83	6	6.3	6.3	8.1	4.8	1.34	1.158	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-09/22/83	6	2.	1.667	2.	1.	0.267	0.516	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-09/22/83	6	6.5	6.667	8.	6.	0.667	0.816	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-09/22/83	6	0.35	0.35	0.4	0.3	0.003	0.055	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-09/22/83	6	55.5	56.	58.	54.	2.8	1.673	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	09/28/60-09/22/83	6	35.	36.667	50.	30.	66.667	8.165	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	09/28/60-09/22/83	6	20.	30.	50.	20.	240.	15.492	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/13/60-09/22/83	6 ##	5.	9.167	30.	5.	104.167	10.206	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/31/74-04/06/83	6	185.	185.5	190.	183.	7.1	2.665	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/06/63-03/09/83	6	281.5	282.5	352.	229.	1760.3	41.956	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/06/63-03/09/83	6	0.25	0.252	0.26	0.25	0.	0.004	**	**	**	**

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Annual Analysis for 1975 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/52-09/22/83	11	11.5	12.773	27.5	0.	76.968	8.773	0.1	7.5	22.	26.4
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/74-09/22/83	11	14.5	12.864	30.	-14.5	147.205	12.133	3.7	10.	27.	-5.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/13/50-09/22/83	11	656.	737.818	1350.	456.	68876.164	262.443	464.8	541.	894.	1278.
00080	COLOR (PLATINUM-COBALT UNITS)	09/28/60-09/22/83	11	7.	7.909	17.	3.	20.691	4.549	3.	5.	10.	16.6
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-09/22/83	11	227.	227.273	250.	203.	164.618	12.83	206.2	219.	237.	248.6
00400p	PH (STANDARD UNITS)	09/28/60-09/22/83	11	7.7	7.773	8.2	7.3	0.078	0.28	7.32	7.7	8.1	8.18
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-09/22/83	11	7.7	7.692	8.2	7.3	0.085	0.292	7.32	7.7	8.1	8.18
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-09/22/83	11	0.02	0.02	0.05	0.006	0.	0.013	0.007	0.008	0.02	0.048
00405	CARBON DIOXIDE (MG/L AS CO2)	07/31/74-09/18/78	11	4.	4.409	11.	1.4	8.531	2.921	1.44	1.8	4.4	10.5
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/14/64-09/24/80	11	110.	111.182	121.	103.	33.164	5.759	103.	108.	117.	120.4
00440	BICARBONATE ION (MG/L AS HCO3)	09/28/60-09/18/78	11	134.	135.545	147.	125.	49.073	7.005	125.2	132.	143.	146.4
00445	CARBONATE ION (MG/L AS CO3)	09/28/60-09/18/78	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/31/74-09/22/83	11	0.2	0.258	0.6	0.01	0.046	0.215	0.012	0.04	0.5	0.58
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/31/74-09/22/83	11	0.07	0.067	0.1	0.02	0.001	0.029	0.022	0.04	0.1	0.1
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-04/06/83	11	98.	96.636	110.	81.	52.055	7.215	82.8	93.	100.	108.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-09/24/80	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-09/22/83	11	32.	32.182	35.	28.	4.964	2.228	28.4	31.	35.	35.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-09/22/83	11	4.3	4.055	4.9	0.9	1.215	1.102	1.48	4.	4.7	4.88
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-09/22/83	11	9.3	9.318	10.	8.8	0.18	0.424	8.8	8.9	9.6	9.98
00931	SODIUM ADSORPTION RATIO	09/28/60-04/06/83	11	0.4	0.409	0.5	0.4	0.001	0.03	0.4	0.4	0.4	0.48
00932	SODIUM, PERCENT	10/14/64-04/06/83	11	16.	16.091	19.	15.	1.091	1.044	15.	16.	16.	18.4
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-09/22/83	11	6.6	6.7	8.1	6.	0.442	0.665	6.02	6.1	7.	8.
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-09/22/83	11	2.	1.627	3.	0.9	0.468	0.684	0.92	1.	2.	2.8

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Annual Analysis for 1975 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-09/22/83	11	7.	6.909	8.	5.	0.891	0.944	5.2	6.	8.	8.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-09/22/83	11	0.4	0.391	0.6	0.3	0.007	0.083	0.3	0.3	0.4	0.56
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-09/22/83	11	50.	51.091	59.	44.	17.691	4.206	44.6	48.	54.	58.2
01020p	BORON, DISSOLVED (UG/L AS B)	09/28/60-09/22/83	11	30.	27.273	60.	10.	261.818	16.181	10.	10.	40.	56.
01046p	IRON, DISSOLVED (UG/L AS FE)	09/28/60-09/22/83	11	20.	41.818	270.	5.	5906.364	76.853	5.	5.	40.	224.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/13/60-09/22/83	10 ##	5.	7.5	30.	5.	62.5	7.906	5.	5.	5.	27.5
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/31/74-04/06/83	11	178.	181.091	192.	171.	58.891	7.674	171.4	175.	190.	191.8
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/06/63-03/09/83	11	337.	358.545	645.	236.	14523.073	120.512	239.4	258.	430.	607.4
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/06/63-03/09/83	11	0.24	0.246	0.26	0.23	0.	0.011	0.232	0.24	0.26	0.26

** - 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 1976 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/52-09/22/83	12	9.5	10.75	23.	0.	79.068	8.892	0.15	2.5	20.375	22.55
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/74-09/22/83	12	17.25	10.583	23.5	-21.5	162.174	12.735	0.75	7.	22.125	-8.
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/13/50-09/22/83	12	641.5	682.583	1040.	500.	33643.538	183.422	504.5	531.	753.	1034.
00080	COLOR (PLATINUM-COBALT UNITS)	09/28/60-09/22/83	12	5.5	6.917	22.	1.	34.811	5.9	1.3	3.	10.75	19.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-09/22/83	12	217.	221.75	259.	205.	281.114	16.766	205.6	208.25	234.75	253.9
00400p	PH (STANDARD UNITS)	09/28/60-09/22/83	12	7.7	7.692	8.1	7.2	0.063	0.25	7.26	7.525	7.9	8.04
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-09/22/83	12	7.7	7.622	8.1	7.2	0.068	0.261	7.26	7.525	7.9	8.04
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-09/22/83	12	0.02	0.024	0.063	0.008	0.	0.015	0.009	0.013	0.03	0.056
00405	CARBON DIOXIDE (MG/L AS CO2)	07/31/74-09/18/78	12	4.55	5.392	16.	1.7	15.043	3.878	2.	2.725	6.575	13.81
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/14/64-09/24/80	12	112.	113.75	133.	103.	60.568	7.783	104.2	109.	117.	129.7
00440	BICARBONATE ION (MG/L AS HCO3)	09/28/60-09/18/78	12	136.	138.583	162.	125.	90.992	9.539	126.8	133.	142.75	158.1
00445	CARBONATE ION (MG/L AS CO3)	09/28/60-09/18/78	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/31/74-09/22/83	12	0.35	0.379	1.1	0.01	0.138	0.372	0.01	0.02	0.675	1.01
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/31/74-09/22/83	12	0.06	0.058	0.1	0.01	0.001	0.032	0.01	0.033	0.087	0.1
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-04/06/83	12	96.	97.	120.	89.	63.273	7.954	89.6	92.25	99.	114.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-09/24/80	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-09/22/83	12	31.	31.583	39.	29.	6.992	2.644	29.3	30.	32.75	37.2
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-09/22/83	12	4.3	4.358	5.1	3.7	0.163	0.403	3.79	4.025	4.725	5.01
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-09/22/83	12	9.35	9.275	9.7	8.7	0.106	0.325	8.73	8.975	9.475	9.7
00931	SODIUM ADSORPTION RATIO	09/28/60-04/06/83	12	0.4	0.4	0.4	0.4	0.	0.	0.4	0.4	0.4	0.4
00932	SODIUM, PERCENT	10/14/64-04/06/83	12	16.	16.083	17.	14.	0.811	0.9	14.3	16.	17.	17.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-09/22/83	12	6.55	6.5	7.8	5.3	0.369	0.608	5.51	6.05	6.775	7.53
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-09/22/83	12	1.	1.417	3.	0.3	0.591	0.769	0.42	1.	2.	2.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-09/22/83	12	8.	7.583	12.	2.	5.356	2.314	3.2	7.	8.75	11.1
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-09/22/83	12	0.35	0.35	0.4	0.3	0.003	0.052	0.3	0.3	0.4	0.4
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-09/22/83	12	51.5	53.083	60.	47.	17.356	4.166	47.3	50.25	56.75	59.4
01020p	BORON, DISSOLVED (UG/L AS B)	09/28/60-09/22/83	12	30.	23.333	30.	10.	96.97	9.847	10.	10.	30.	30.
01046p	IRON, DISSOLVED (UG/L AS FE)	09/28/60-09/22/83	12	20.	19.583	40.	5.	115.72	10.757	5.	8.75	27.5	37.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/13/60-09/22/83	12 ##	5.	10.333	40.	4.	121.333	11.015	4.3	5.	16.25	34.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/31/74-04/06/83	12	183.5	184.333	218.	167.	158.606	12.594	169.1	176.5	188.	210.2
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/06/63-03/09/83	12	323.5	338.083	500.	244.	7303.72	85.462	247.	267.	388.	493.7
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/06/63-03/09/83	12	0.25	0.252	0.3	0.23	0.	0.017	0.233	0.24	0.258	0.288

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Annual Analysis for 1977 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/52-09/22/83	11	15.5	13.955	25.5	0.	98.323	9.916	0.	3.	24.	25.3
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/74-09/22/83	11	18.	15.364	27.	-1.5	94.955	9.744	2.9	9.	23.5	26.4

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Annual Analysis for 1977 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/13/50-09/22/83	11	888.	874.182	1470.	559.	91168.164	301.941	561.8	576.	971.	1438.
00080	COLOR (PLATINUM-COBALT UNITS)	09/28/60-09/22/83	11	8.	13.091	35.	5.	88.491	9.407	5.2	6.	18.	32.6
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-09/22/83	11	232.	229.364	247.	201.	136.655	11.69	205.	223.	236.	245.
00400p	PH (STANDARD UNITS)	09/28/60-09/22/83	11	7.7	7.636	8.2	7.1	0.119	0.344	7.14	7.3	7.9	8.16
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-09/22/83	11	7.7	7.52	8.2	7.1	0.134	0.365	7.14	7.3	7.9	8.16
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-09/22/83	11	0.02	0.03	0.079	0.006	0.001	0.023	0.007	0.013	0.05	0.074
00405	CARBON DIOXIDE (MG/L AS CO2)	07/31/74-09/18/78	11	4.5	6.427	17.	1.4	21.242	4.609	1.6	3.	9.7	15.6
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/14/64-09/24/80	11	110.	111.818	120.	99.	38.564	6.21	101.2	110.	120.	120.
00440	BICARBONATE ION (MG/L AS HCO3)	09/28/60-09/18/78	11	140.	137.818	150.	121.	93.364	9.662	122.8	130.	150.	150.
00445	CARBONATE ION (MG/L AS CO3)	09/28/60-09/18/78	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/31/74-09/22/83	11	0.3	0.364	0.7	0.1	0.045	0.211	0.1	0.2	0.6	0.68
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/31/74-09/22/83	11	0.09	0.088	0.12	0.06	0.	0.022	0.06	0.07	0.1	0.12
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-04/06/83	11	98.	100.818	120.	84.	90.164	9.495	86.2	96.	110.	118.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-09/24/80	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-09/22/83	11	32.	33.273	39.	28.	9.818	3.133	28.6	32.	35.	38.8
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-09/22/83	11	4.3	4.291	4.8	3.5	0.105	0.324	3.6	4.3	4.4	4.74
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-09/22/83	11	9.2	9.255	11.	8.	0.751	0.866	8.08	8.4	9.9	10.78
00931	SODIUM ADSORPTION RATIO	09/28/60-04/06/83	11	0.4	0.409	0.5	0.4	0.001	0.03	0.4	0.4	0.4	0.48
00932	SODIUM, PERCENT	10/14/64-04/06/83	11	16.	15.727	19.	14.	1.618	1.272	14.2	15.	16.	18.4
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-09/22/83	11	6.5	6.545	7.3	5.4	0.323	0.568	5.54	6.1	7.2	7.28
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-09/22/83	11	2.	1.636	2.	1.	0.255	0.505	1.	1.	2.	2.
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-09/22/83	11	8.	8.	12.	6.	3.6	1.897	6.	6.	9.	11.6
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-09/22/83	11	0.4	0.382	0.4	0.3	0.002	0.04	0.3	0.4	0.4	0.4
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-09/22/83	10	51.	50.6	57.	45.	12.933	3.596	45.2	47.	53.25	56.7
01020p	BORON, DISSOLVED (UG/L AS B)	09/28/60-09/22/83	11	30.	33.636	50.	10.	105.455	10.269	14.	30.	40.	48.
01046p	IRON, DISSOLVED (UG/L AS FE)	09/28/60-09/22/83	11	30.	32.727	80.	5.	536.818	23.169	5.	20.	50.	76.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/13/60-09/22/83	11 ##	5.	5.273	8.	5.	0.818	0.905	5.	5.	5.	7.4
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/31/74-04/06/83	10	180.	181.7	197.	165.	91.122	9.546	166.1	176.	190.25	196.7
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/06/63-03/09/83	11	417.	421.091	726.	285.	21771.491	147.552	287.2	300.	461.	709.6
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/06/63-03/09/83	10	0.245	0.247	0.27	0.22	0.	0.014	0.222	0.24	0.26	0.269

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Annual Analysis for 1978 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/52-09/22/83	12	13.	10.75	26.	0.	97.159	9.857	0.	0.5	19.375	24.35
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/74-09/22/83	10	24.	7.55	24.5	-19.	365.803	19.126	19.7	21.5	-13.5	-18.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/13/50-09/22/83	12	755.	831.417	1640.	553.	87213.72	295.32	564.7	618.25	943.	1451.
00080	COLOR (PLATINUM-COBALT UNITS)	09/28/60-09/22/83	9	6.	9.556	27.	3.	69.278	8.323	3.	4.5	15.	27.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-09/22/83	12	230.	227.833	251.	190.	233.424	15.278	197.2	222.25	236.75	248.3
00400p	PH (STANDARD UNITS)	09/28/60-09/22/83	12	7.55	7.425	7.8	6.9	0.111	0.333	6.93	7.05	7.75	7.8
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-09/22/83	12	7.547	7.306	7.8	6.9	0.127	0.356	6.93	7.05	7.75	7.8
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-09/22/83	12	0.028	0.049	0.126	0.016	0.002	0.039	0.016	0.018	0.091	0.118
00405	CARBON DIOXIDE (MG/L AS CO2)	07/31/74-09/18/78	9	6.	10.444	22.	3.6	52.498	7.246	3.6	4.7	18.	22.
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/14/64-09/24/80	12	110.	111.667	120.	90.	69.697	8.348	96.	110.	120.	120.
00440	BICARBONATE ION (MG/L AS HCO3)	09/28/60-09/18/78	9	140.	140.	150.	110.	175.	13.229	110.	135.	150.	150.
00445	CARBONATE ION (MG/L AS CO3)	09/28/60-09/18/78	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/31/74-09/22/83	12	0.5	0.489	1.1	0.03	0.103	0.321	0.033	0.225	0.7	1.01
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/31/74-09/22/83	12	0.075	0.083	0.18	0.03	0.002	0.042	0.036	0.05	0.108	0.162
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-04/06/83	12	100.	101.5	110.	82.	79.545	8.919	85.3	95.75	110.	110.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-09/24/80	10	0.	0.4	4.	0.	1.6	1.265	0.	0.	0.	3.6
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-09/22/83	12	33.5	33.083	37.	27.	8.083	2.843	27.9	31.25	34.75	37.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-09/22/83	12	4.4	4.442	5.2	3.5	0.192	0.438	3.68	4.225	4.775	5.11
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-09/22/83	12	9.45	9.892	13.	7.3	3.279	1.811	7.54	8.625	11.	13.
00931	SODIUM ADSORPTION RATIO	09/28/60-04/06/83	12	0.4	0.417	0.5	0.3	0.003	0.058	0.33	0.4	0.475	0.5
00932	SODIUM, PERCENT	10/14/64-04/06/83	12	16.	16.5	22.	14.	6.273	2.505	14.	14.25	17.75	21.4

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Annual Analysis for 1978 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-09/22/83	12	6.35	6.433	7.2	5.8	0.181	0.425	5.86	6.05	6.775	7.14
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-09/22/83	12	2.	1.917	3.	1.	0.447	0.669	1.	1.25	2.	3.
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-09/22/83	12	9.	9.417	20.	5.	14.992	3.872	5.3	7.	10.	17.6
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-09/22/83	12	0.35	0.483	2.	0.3	0.231	0.48	0.3	0.3	0.4	1.52
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-09/22/83	12	52.5	51.75	63.	39.	37.477	6.122	41.4	47.5	55.75	61.2
01020p	BORON, DISSOLVED (UG/L AS B)	09/28/60-09/22/83	12	40.	40.	110.	10.	563.636	23.741	16.	30.	40.	89.
01046p	IRON, DISSOLVED (UG/L AS FE)	09/28/60-09/22/83	12	30.	29.167	60.	5.	258.333	16.073	5.	20.	40.	54.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/13/60-09/22/83	12 ##	5.	4.917	8.	3.	1.538	1.24	3.	5.	5.	7.1
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/31/74-04/06/83	10	189.5	187.3	204.	149.	268.233	16.378	151.6	181.	201.5	203.9
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/06/63-03/09/83	10	416.	434.9	660.	290.	12483.433	111.729	292.1	350.	496.	649.6
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/06/63-03/09/83	10	0.26	0.255	0.28	0.2	0.001	0.023	0.204	0.248	0.273	0.28

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Annual Analysis for 1979 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/52-09/22/83	12	8.25	10.542	26.5	0.5	96.748	9.836	0.5	0.625	19.125	25.45
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/74-09/22/83	12	17.	10.375	26.5	-19.5	174.778	13.22	1.5	6.125	22.625	-5.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/13/50-09/22/83	12	856.	810.583	1300.	574.	50356.629	224.403	574.3	588.	947.25	1197.1
00080	COLOR (PLATINUM-COBALT UNITS)	09/28/60-09/22/83	4	7.5	7.5	10.	5.	8.333	2.887	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-09/22/83	12	225.	227.5	251.	203.	217.182	14.737	205.4	216.5	241.75	249.5
00400p	PH (STANDARD UNITS)	09/28/60-09/22/83	12	7.75	7.75	8.2	7.3	0.092	0.303	7.33	7.45	7.975	8.2
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-09/22/83	12	7.747	7.658	8.2	7.3	0.101	0.318	7.33	7.45	7.975	8.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-09/22/83	12	0.018	0.022	0.05	0.006	0.	0.014	0.006	0.011	0.036	0.047
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/14/64-09/24/80	11	110.	108.727	120.	98.	57.018	7.551	98.	100.	110.	120.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/31/74-09/22/83	11	0.2	0.336	0.7	0.01	0.07	0.265	0.026	0.1	0.7	0.7
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/31/74-09/22/83	12	0.075	0.135	0.82	0.02	0.047	0.218	0.026	0.053	0.113	0.613
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-04/06/83	12	97.	97.417	110.	86.	53.174	7.292	86.6	94.	99.75	110.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-09/24/80	11	0.	0.091	1.	0.	0.091	0.302	0.	0.	0.	0.8
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-09/22/83	12	31.5	31.917	36.	28.	6.083	2.466	28.3	30.25	33.	36.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-09/22/83	12	4.3	4.325	5.	3.9	0.138	0.372	3.9	4.	4.675	4.94
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-09/22/83	12	9.1	9.375	12.	8.1	1.093	1.045	8.16	8.6	9.95	11.4
00931	SODIUM ADSORPTION RATIO	09/28/60-04/06/83	12	0.4	0.408	0.5	0.4	0.001	0.029	0.4	0.4	0.4	0.47
00932	SODIUM, PERCENT	10/14/64-04/06/83	11	16.	16.364	18.	15.	1.055	1.027	15.	16.	17.	18.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-09/22/83	11	6.4	6.536	7.9	5.1	0.689	0.83	5.24	6.	7.	7.88
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-09/22/83	11	1.	1.545	3.	1.	0.473	0.688	1.	1.	2.	2.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-09/22/83	11	9.	9.364	11.	7.	2.055	1.433	7.	9.	11.	11.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-09/22/83	11	0.3	0.355	0.5	0.3	0.005	0.069	0.3	0.3	0.4	0.48
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-09/22/83	10	52.5	51.9	58.	46.	22.322	4.725	46.1	47.	56.25	57.9
01020p	BORON, DISSOLVED (UG/L AS B)	09/28/60-09/22/83	11	40.	40.	80.	20.	320.	17.889	20.	30.	50.	76.
01046p	IRON, DISSOLVED (UG/L AS FE)	09/28/60-09/22/83	12	30.	32.5	80.	5.	488.636	22.105	5.	20.	47.5	74.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/13/60-09/22/83	12 ##	5.	3.875	6.	0.	4.006	2.001	0.15	2.25	5.	5.7
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/31/74-04/06/83	10	183.5	182.4	197.	165.	126.267	11.237	165.2	173.75	194.25	196.8
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/06/63-03/09/83	10	398.	384.	472.	291.	5136.	71.666	292.5	309.	460.	471.7
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/06/63-03/09/83	10	0.25	0.248	0.27	0.22	0.	0.016	0.221	0.238	0.263	0.27

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Annual Analysis for 1980 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/52-09/22/83	11	14.5	13.318	26.5	0.5	89.014	9.435	0.8	3.	23.	25.9
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/74-09/22/83	11	16.	15.909	28.	-1.5	91.241	9.552	7.3	-1.5	24.5	27.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/13/50-09/22/83	11	727.	771.364	1180.	511.	46674.855	216.044	518.4	575.	885.	1160.

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Annual Analysis for 1980 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00080	COLOR (PLATINUM-COBALT UNITS)	09/28/60-09/22/83	10	10.	8.4	15.	0.	17.822	4.222	0.4	4.75	10.	14.5
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-09/22/83	11	224.	222.273	246.	201.	158.218	12.578	202.6	215.	230.	243.4
00400p	PH (STANDARD UNITS)	09/28/60-09/22/83	11	7.9	7.864	8.3	7.4	0.073	0.269	7.44	7.6	8.	8.28
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-09/22/83	11	7.9	7.788	8.3	7.4	0.079	0.281	7.44	7.6	8.	8.28
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-09/22/83	11	0.013	0.016	0.04	0.005	0.	0.01	0.005	0.01	0.025	0.037
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/14/64-09/24/80	8	110.	104.375	110.	93.	62.268	7.891	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/31/74-09/22/83	11	0.08	0.26	0.7	0.	0.081	0.285	0.	0.04	0.6	0.7
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/31/74-09/22/83	11	0.08	0.077	0.17	0.01	0.002	0.043	0.016	0.05	0.1	0.158
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-04/06/83	11	92.	90.455	98.	82.	26.873	5.184	82.	86.	94.	97.4
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-09/24/80	8	0.	0.	0.	0.	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-09/22/83	11	30.	29.636	32.	27.	2.855	1.69	27.	28.	31.	31.8
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-09/22/83	11	4.1	4.	4.3	3.6	0.06	0.245	3.6	3.8	4.1	4.3
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-09/22/83	11	9.1	9.2	9.9	8.7	0.186	0.431	8.72	8.8	9.6	9.86
00931	SODIUM ADSORPTION RATIO	09/28/60-04/06/83	11	0.4	0.409	0.5	0.4	0.001	0.03	0.4	0.4	0.4	0.48
00932	SODIUM, PERCENT	10/14/64-04/06/83	11	17.	17.	18.	15.	0.8	0.894	15.2	17.	18.	18.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-09/22/83	11	6.3	6.418	7.3	5.7	0.334	0.578	5.7	6.	7.	7.24
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-09/22/83	11	2.	1.809	3.	0.9	0.381	0.617	0.92	1.	2.	2.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-09/22/83	11	7.	6.909	10.	4.	3.291	1.814	4.2	5.	8.	9.8
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-09/22/83	11	0.3	0.345	0.5	0.2	0.007	0.082	0.22	0.3	0.4	0.48
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-09/22/83	11	52.	52.182	59.	48.	9.164	3.027	48.2	50.	54.	58.2
01020p	BORON, DISSOLVED (UG/L AS B)	09/28/60-09/22/83	11	30.	37.273	60.	20.	281.818	16.787	20.	20.	60.	60.
01046p	IRON, DISSOLVED (UG/L AS FE)	09/28/60-09/22/83	11	20.	24.091	50.	5.	124.091	11.14	8.	20.	30.	46.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/13/60-09/22/83	11	2.	2.636	6.	0.5	3.455	1.859	0.6	1.5	5.	5.8
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/31/74-04/06/83	11	176.	174.636	184.	164.	40.255	6.345	164.8	168.	179.	183.2
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/06/63-03/09/83	11	347.	361.091	523.	254.	8024.491	89.58	256.2	278.	424.	516.4
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/06/63-03/09/83	11	0.24	0.236	0.25	0.22	0.	0.008	0.222	0.23	0.24	0.248

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Annual Analysis for 1981 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/52-09/22/83	12	14.25	12.	25.	0.5	89.091	9.439	0.5	1.875	20.375	24.55
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/74-09/22/83	12	19.5	11.75	25.	-12.5	155.114	12.454	2.65	1.5	23.875	-1.25
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/13/50-09/22/83	12	726.5	733.417	973.	427.	20733.72	143.992	481.	650.25	831.25	953.8
00080	COLOR (PLATINUM-COBALT UNITS)	09/28/60-09/22/83	12	5.	9.167	40.	5.	99.242	9.962	5.	5.	10.	31.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-09/22/83	12	214.	213.583	224.	188.	109.356	10.457	193.7	208.25	222.75	224.
00400p	PH (STANDARD UNITS)	09/28/60-09/22/83	12	7.8	7.808	8.3	7.4	0.074	0.271	7.43	7.525	8.	8.24
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-09/22/83	12	7.8	7.734	8.3	7.4	0.08	0.282	7.43	7.525	8.	8.24
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-09/22/83	12	0.016	0.018	0.04	0.005	0.	0.011	0.006	0.01	0.03	0.037
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/31/74-09/22/83	12	0.4	0.978	5.1	0.05	2.426	1.558	0.062	0.1	0.825	4.53
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/31/74-09/22/83	12	0.075	0.07	0.11	0.02	0.001	0.027	0.026	0.05	0.087	0.11
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-04/06/83	12	93.5	92.	98.	81.	28.545	5.343	81.9	88.75	96.75	97.7
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-09/22/83	12	31.	30.417	32.	27.	2.811	1.676	27.3	29.25	32.	32.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-09/22/83	12	3.85	3.883	4.4	3.4	0.08	0.282	3.43	3.725	4.075	4.34
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-09/22/83	12	8.9	8.858	9.6	7.9	0.292	0.54	7.99	8.425	9.275	9.6
00931	SODIUM ADSORPTION RATIO	09/28/60-04/06/83	12	0.4	0.4	0.4	0.4	0.	0.	0.4	0.4	0.4	0.4
00932	SODIUM, PERCENT	10/14/64-04/06/83	12	16.	16.167	18.	15.	0.515	0.718	15.3	16.	16.	17.7
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-09/22/83	12	6.15	6.175	7.2	5.4	0.311	0.558	5.4	5.65	6.475	7.11
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-09/22/83	12	1.	1.317	2.	0.9	0.256	0.506	0.9	1.	2.	2.
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-09/22/83	12	3.	4.25	10.	2.	7.432	2.726	2.	2.125	5.	9.7
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-09/22/83	12	0.3	0.317	0.4	0.2	0.003	0.058	0.23	0.3	0.375	0.4
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-09/22/83	12	52.5	52.5	60.	41.	19.545	4.421	44.	51.25	54.75	58.8
01020p	BORON, DISSOLVED (UG/L AS B)	09/28/60-09/22/83	12	20.	20.	30.	10.	36.364	6.03	10.	20.	20.	30.
01046p	IRON, DISSOLVED (UG/L AS FE)	09/28/60-09/22/83	12	31.	34.833	70.	15.	220.697	14.856	16.5	23.25	40.	64.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/13/60-09/22/83	12	5.	4.667	6.	1.	2.788	1.67	1.3	4.	6.	6.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/31/74-04/06/83	12	171.5	172.5	194.	143.	182.091	13.494	148.4	166.75	178.75	193.4

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Annual Analysis for 1981 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/06/63-03/09/83	12	355.	342.5	444.	165.	5072.818	71.224	203.4	310.5	384.5	435.9
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/06/63-03/09/83	12	0.235	0.234	0.26	0.19	0.	0.018	0.199	0.23	0.24	0.26

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Annual Analysis for 1982 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/52-09/22/83	12	6.25	9.958	27.5	0.5	103.566	10.177	0.5	0.75	16.375	27.2
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/74-09/22/83	12	7.25	12.	30.5	-2.	129.455	11.378	3.15	4.125	20.5	29.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/13/50-09/22/83	12	868.	922.917	1320.	572.	63401.356	251.796	577.1	718.75	1182.5	1302.
00080	COLOR (PLATINUM-COBALT UNITS)	09/28/60-09/22/83	12	10.	15.917	80.	0.5	473.674	21.764	0.5	5.	15.	65.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-09/22/83	12	230.	230.417	253.	187.	359.902	18.971	196.3	218.5	249.5	252.7
00400p	PH (STANDARD UNITS)	09/28/60-09/22/83	12	7.7	7.692	8.3	7.3	0.072	0.268	7.33	7.45	7.8	8.18
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-09/22/83	12	7.7	7.624	8.3	7.3	0.077	0.277	7.33	7.45	7.8	8.18
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-09/22/83	12	0.02	0.024	0.05	0.005	0.	0.013	0.007	0.016	0.036	0.047
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/31/74-09/22/83	12	0.5	0.55	1.3	0.1	0.101	0.318	0.16	0.4	0.6	1.21
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/31/74-09/22/83	12	0.085	0.09	0.18	0.05	0.002	0.039	0.05	0.063	0.098	0.171
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-04/06/83	12	96.5	93.917	100.	77.	48.447	6.96	80.	89.75	99.75	100.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-09/22/83	12	31.	30.583	33.	25.	5.902	2.429	25.9	29.25	32.75	33.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-09/22/83	12	4.1	4.333	6.6	3.6	0.577	0.76	3.69	4.025	4.3	6.03
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-09/22/83	12	9.15	9.058	10.	7.	0.748	0.865	7.42	8.525	9.9	10.
00931	SODIUM ADSORPTION RATIO	09/28/60-04/06/83	12	0.4	0.425	0.5	0.4	0.002	0.045	0.4	0.4	0.475	0.5
00932	SODIUM, PERCENT	10/14/64-04/06/83	12	16.	16.167	17.	15.	0.515	0.718	15.	16.	17.	17.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-09/22/83	12	6.25	6.292	7.4	5.3	0.521	0.722	5.36	5.525	7.	7.34
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-09/22/83	12	2.	1.917	3.	1.	0.265	0.515	1.	2.	2.	2.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-09/22/83	12	6.	6.083	10.	2.5	5.311	2.304	2.5	5.	7.75	9.7
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-09/22/83	12	0.35	0.358	0.5	0.3	0.004	0.067	0.3	0.3	0.4	0.47
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-09/22/83	11	50.	51.727	59.	47.	18.818	4.338	47.	49.	55.	59.
01020p	BORON, DISSOLVED (UG/L AS B)	09/28/60-09/22/83	12	20.	24.167	30.	20.	26.515	5.149	20.	20.	30.	30.
01046p	IRON, DISSOLVED (UG/L AS FE)	09/28/60-09/22/83	12	22.5	26.	74.	12.	270.364	16.443	13.2	16.25	27.75	62.3
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/13/60-09/22/83	12	3.	4.083	11.	1.	10.038	3.168	1.15	1.625	5.75	10.4
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/31/74-04/06/83	11	178.	179.182	198.	155.	166.564	12.906	157.8	171.	191.	197.2
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/06/63-03/09/83	12	421.5	434.25	646.	304.	10927.659	104.535	304.6	332.75	516.	617.8
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/06/63-03/09/83	11	0.24	0.236	0.26	0.2	0.	0.02	0.202	0.23	0.26	0.26

** - 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 NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/52-09/22/83	9	8.	10.944	26.5	0.5	100.778	10.039	0.5	1.75	20.75	26.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/74-09/22/83	9	-2.	11.278	28.	-2.	125.944	11.222	0.5	4.25	22.5	28.
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/13/50-09/22/83	9	989.	1058.889	1930.	805.	117648.611	342.999	805.	831.5	1075.	1930.
00080	COLOR (PLATINUM-COBALT UNITS)	09/28/60-09/22/83	9	10.	11.111	25.	5.	54.861	7.407	5.	5.	17.5	25.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-09/22/83	9	247.	257.667	282.	230.	417.25	20.427	230.	241.5	279.	282.
00400p	PH (STANDARD UNITS)	09/28/60-09/22/83	9	7.8	7.867	8.4	7.6	0.085	0.292	7.6	7.65	8.1	8.4
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-09/22/83	9	7.8	7.798	8.4	7.6	0.09	0.301	7.6	7.65	8.1	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-09/22/83	9	0.016	0.016	0.025	0.004	0.	0.008	0.004	0.009	0.023	0.025
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/31/74-09/22/83	9	0.4	0.406	0.6	0.05	0.033	0.181	0.05	0.3	0.55	0.6
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/31/74-09/22/83	9	0.07	0.076	0.15	0.01	0.001	0.038	0.01	0.055	0.095	0.15
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-04/06/83	4	95.5	94.25	100.	86.	34.917	5.909	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-09/22/83	9	33.	32.667	36.	28.	6.	2.449	28.	31.	34.5	36.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-09/22/83	9	4.8	4.633	5.5	3.8	0.258	0.507	3.8	4.25	4.95	5.5
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-09/22/83	9	11.	10.822	14.	8.3	4.267	2.066	8.3	8.75	12.5	14.

** - 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

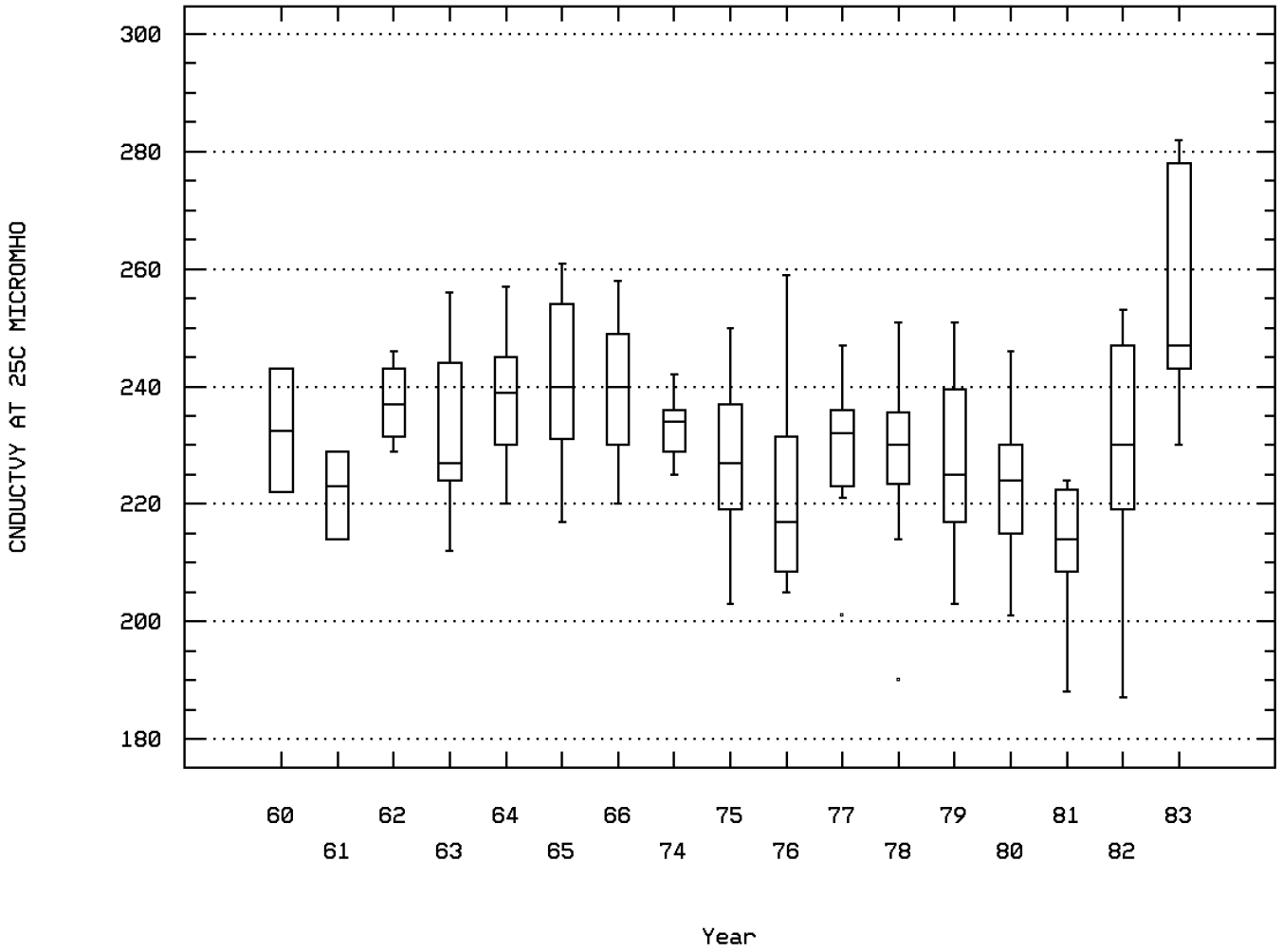
Annual Analysis for 1983 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00931	SODIUM ADSORPTION RATIO	09/28/60-04/06/83	4	0.4	0.425	0.5	0.4	0.002	0.05	**	**	**	**
00932	SODIUM, PERCENT	10/14/64-04/06/83	4	16.	16.5	19.	15.	3.	1.732	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-09/22/83	9	6.	6.689	8.4	5.6	1.399	1.183	5.6	5.6	7.9	8.4
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-09/22/83	9	2.	2.111	3.	2.	0.111	0.333	2.	2.	2.	3.
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-09/22/83	9	9.	9.	11.	7.	2.	1.414	7.	8.	10.5	11.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-09/22/83	9	0.4	0.378	0.4	0.3	0.002	0.044	0.3	0.35	0.4	0.4
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-09/22/83	9	50.	49.778	55.	44.	10.444	3.232	44.	47.5	52.	55.
01020p	BORON, DISSOLVED (UG/L AS B)	09/28/60-09/22/83	9	30.	26.667	40.	20.	50.	7.071	20.	20.	30.	40.
01046p	IRON, DISSOLVED (UG/L AS FE)	09/28/60-09/22/83	9	23.	25.111	58.	9.	195.611	13.986	9.	16.5	29.	58.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/13/60-09/22/83	9	5.	10.778	49.	4.	210.194	14.498	4.	4.5	9.	49.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/31/74-04/06/83	4	182.5	180.	184.	171.	36.667	6.055	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/06/63-03/09/83	3	486.	472.	539.	391.	5623.	74.987	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/06/63-03/09/83	3	0.25	0.243	0.25	0.23	0.	0.012	**	**	**	**

** - 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: NIOB0028 Parameter Code: 00095

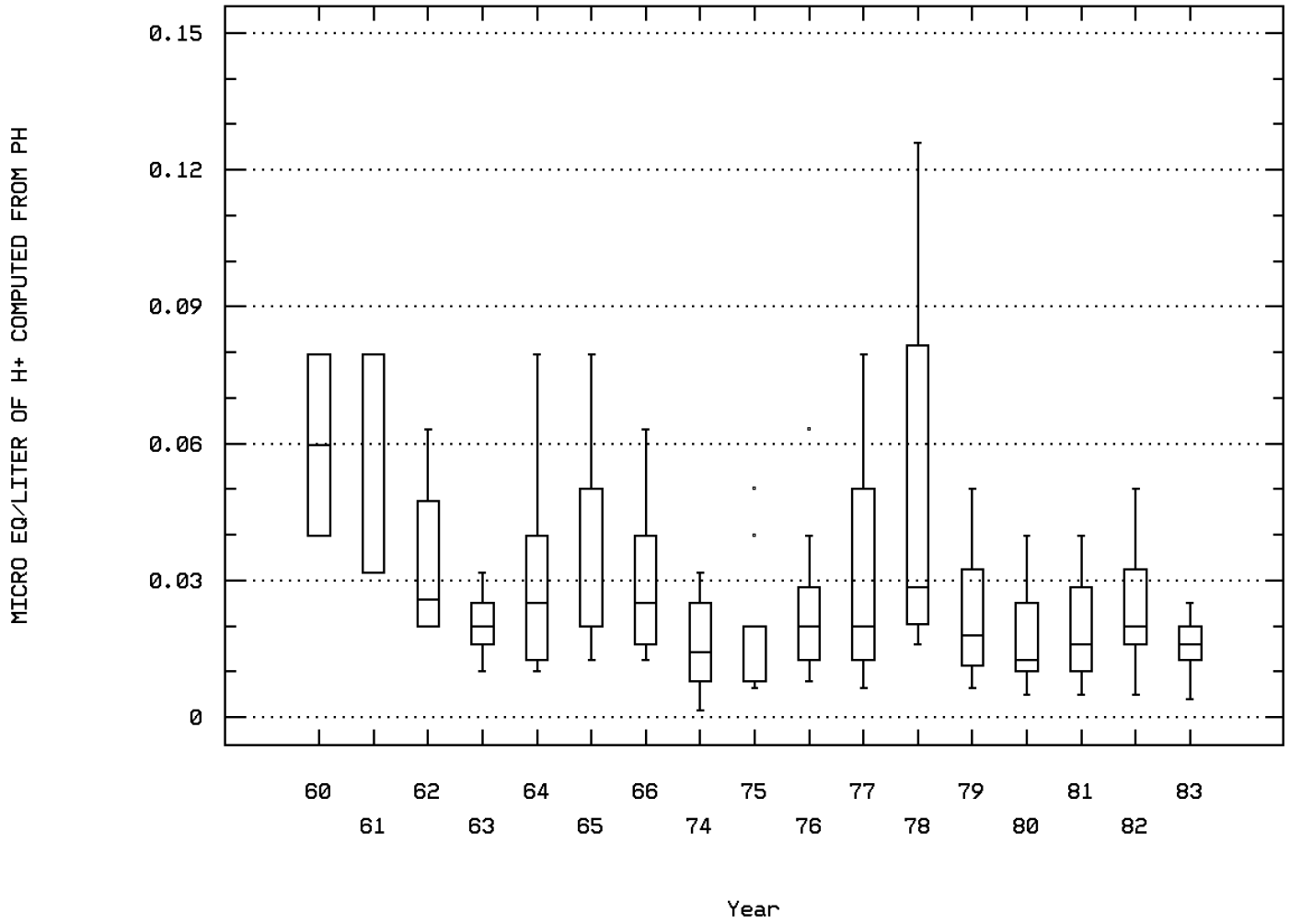
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 00400

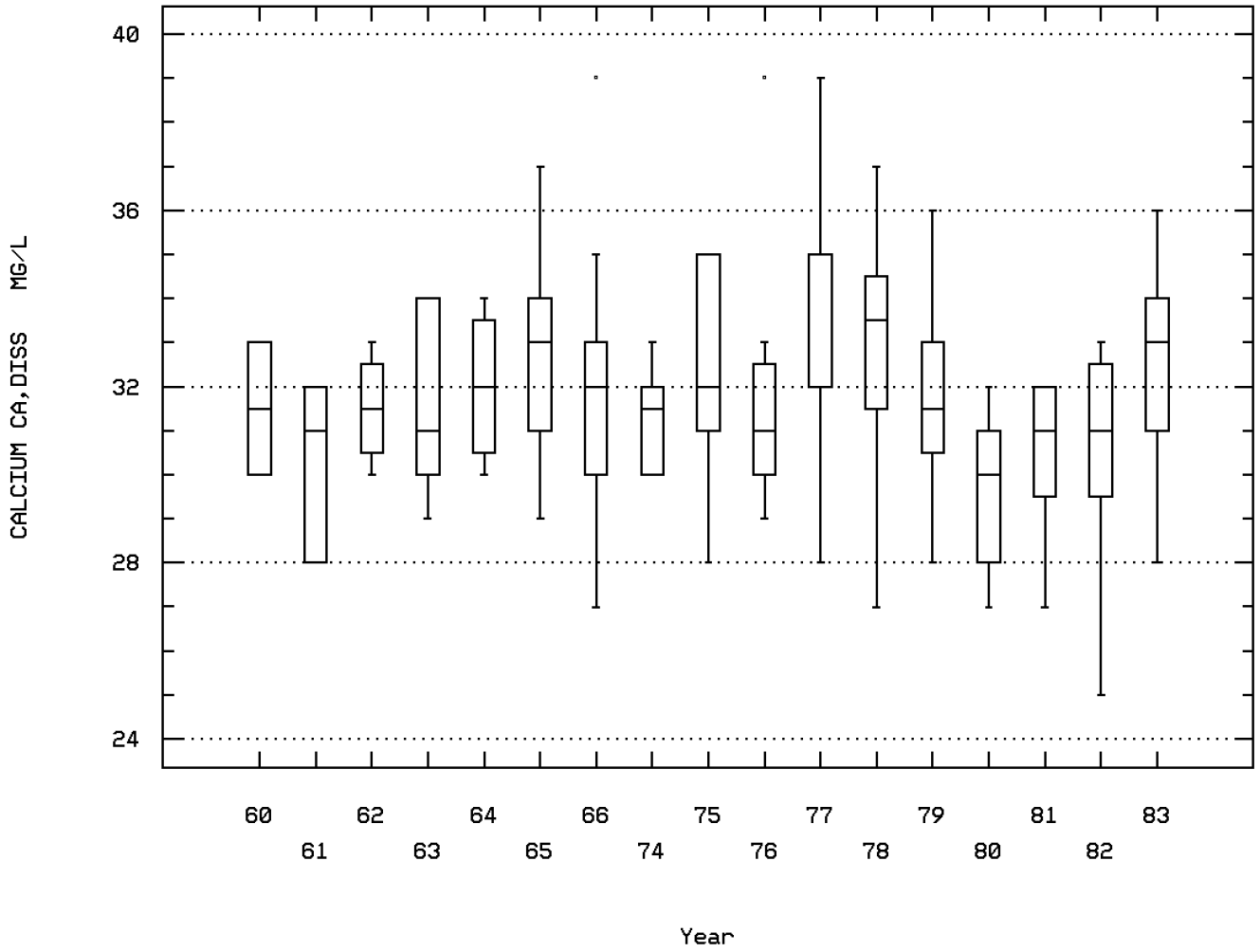
MICRO EQ/LITER OF H+ COMPUTED FROM PH



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 00915

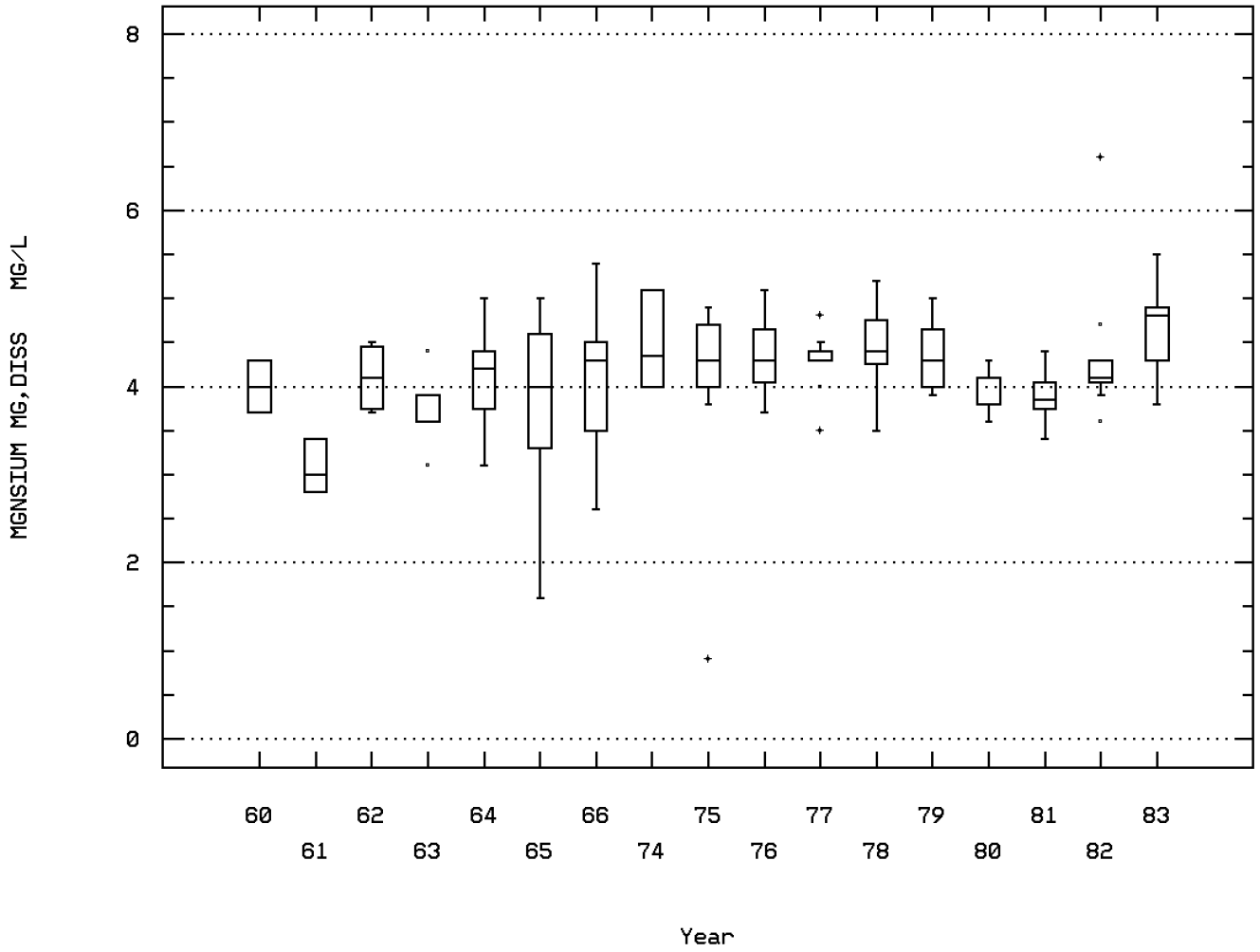
CALCIUM, DISSOLVED (MG/L AS CA)



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 00925

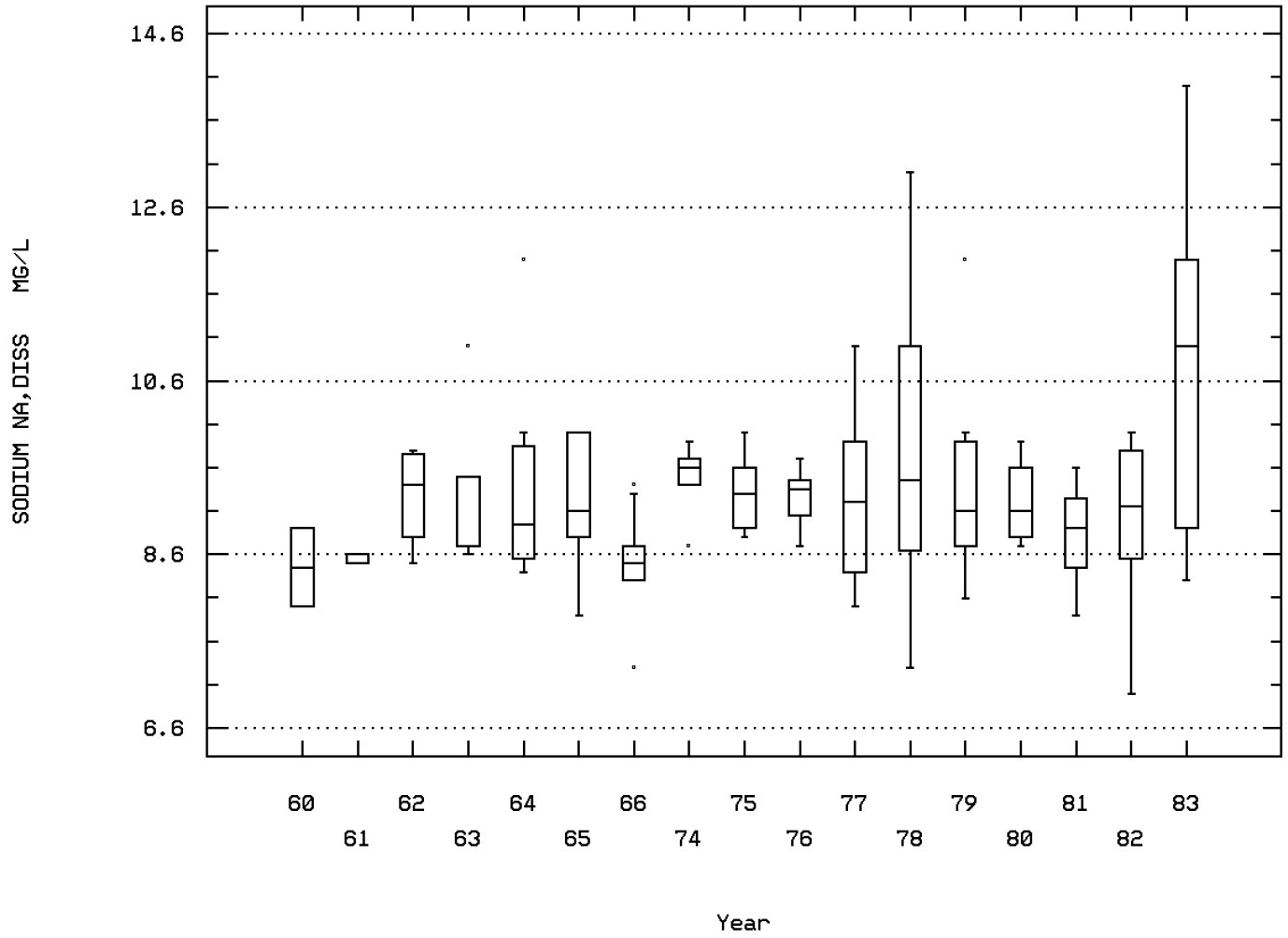
MAGNESIUM, DISSOLVED (MG/L AS MG)



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 00930

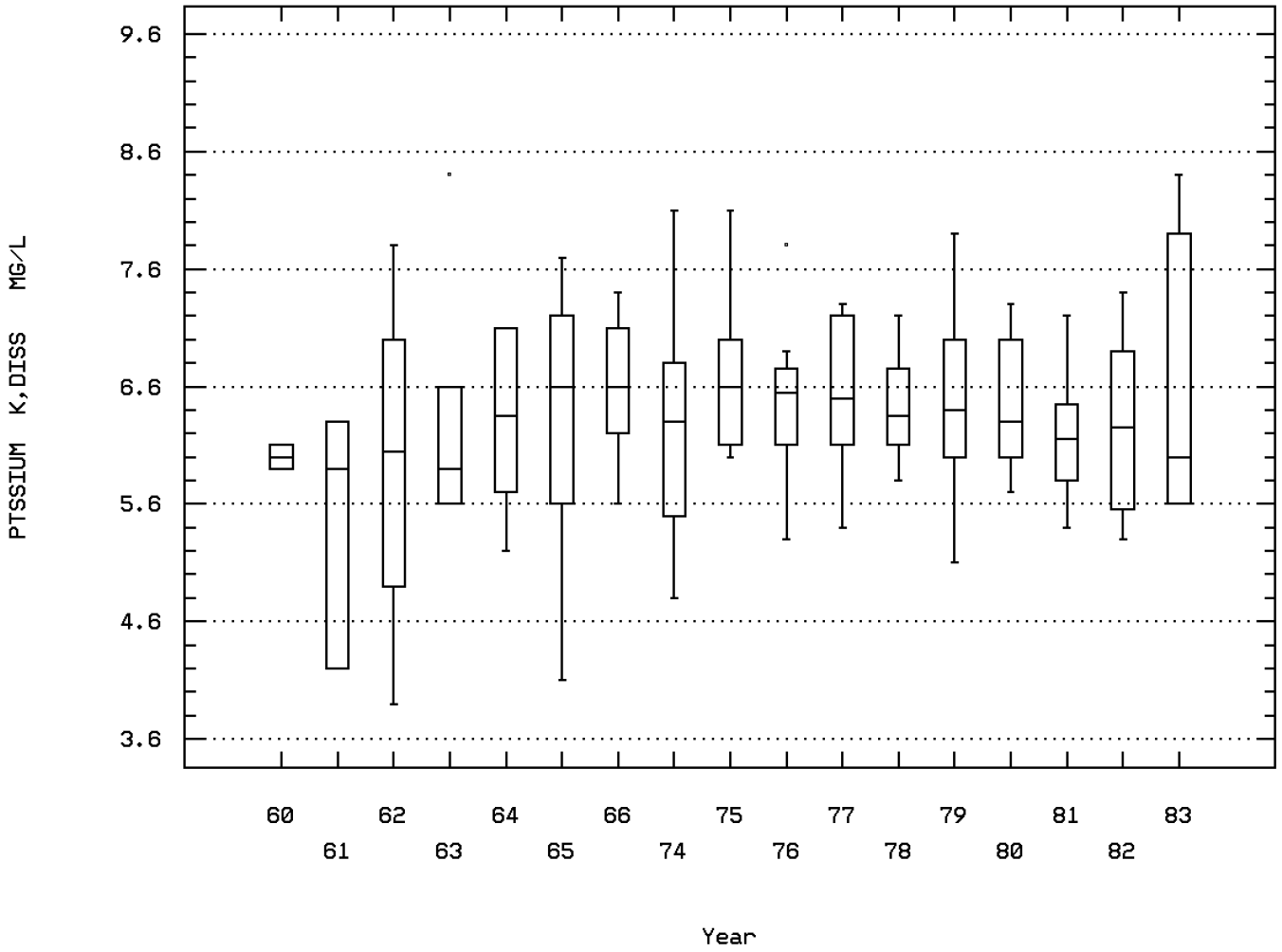
SODIUM, DISSOLVED (MG/L AS NA)



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 00935

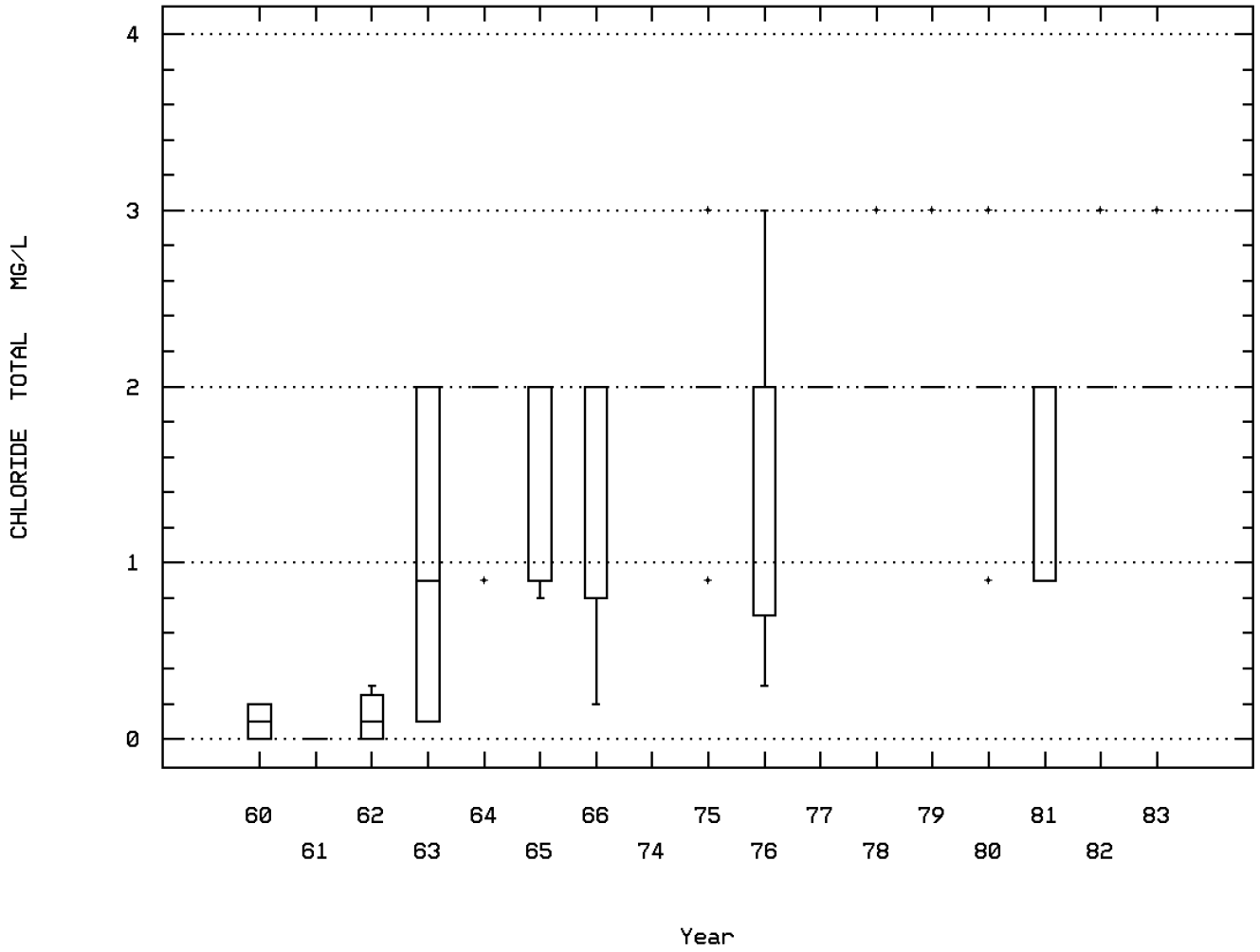
POTASSIUM, DISSOLVED (MG/L AS K)



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 00940

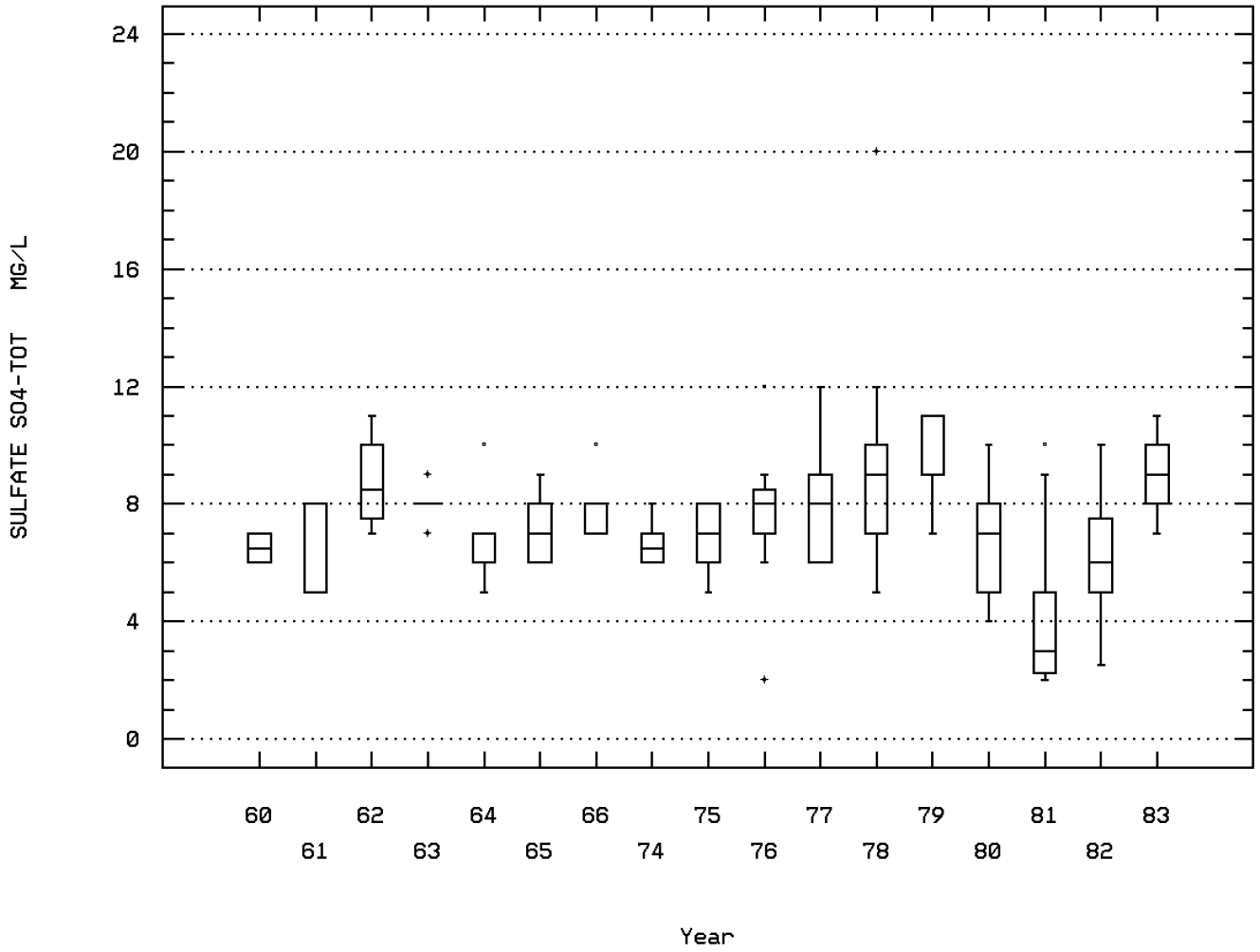
CHLORIDE,TOTAL IN WATER



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 00945

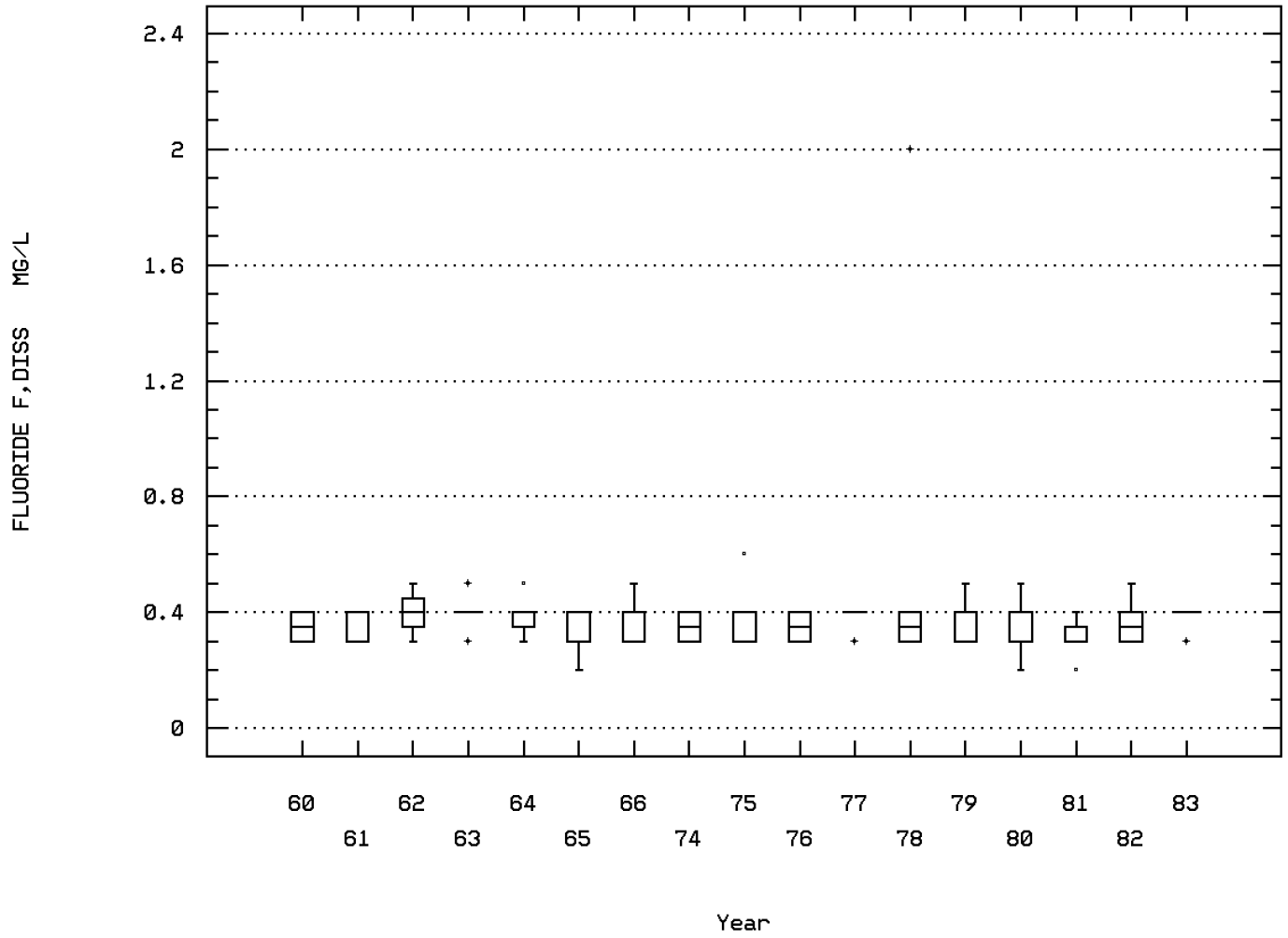
SULFATE, TOTAL (MG/L AS SO4)



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 00950

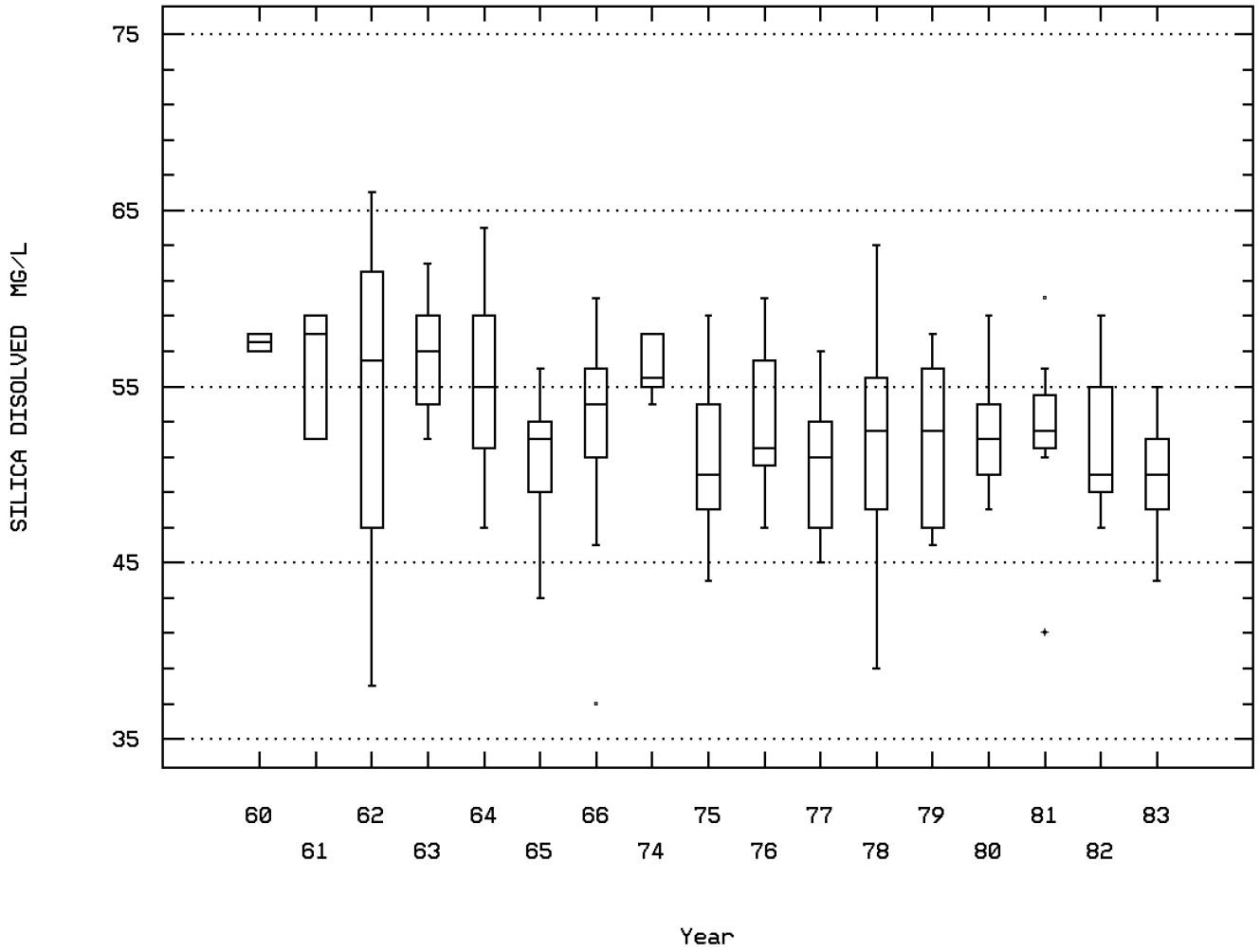
FLUORIDE, DISSOLVED (MG/L AS F)



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 00955

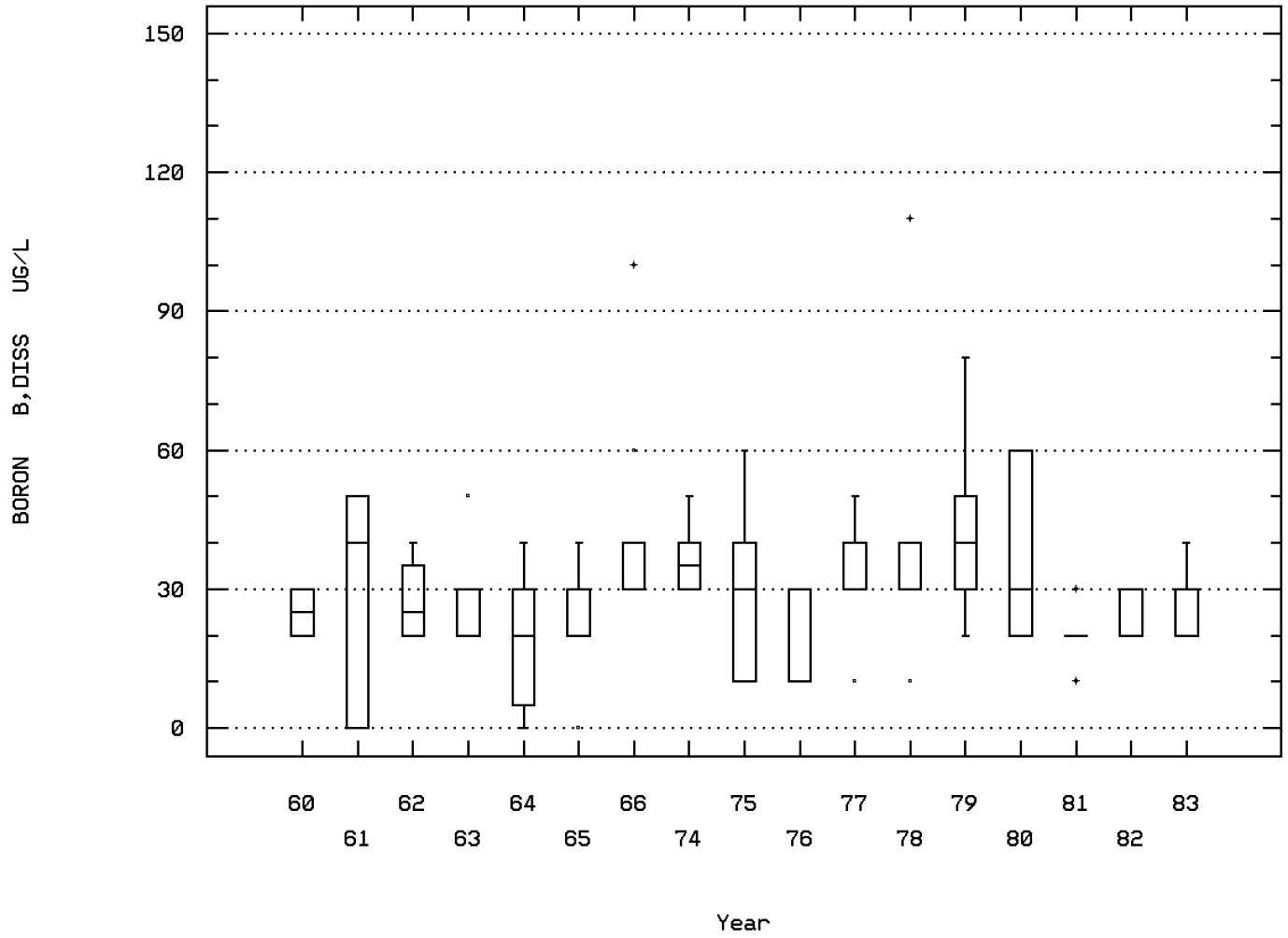
SILICA, DISSOLVED (MG/L AS SI02)



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 01020

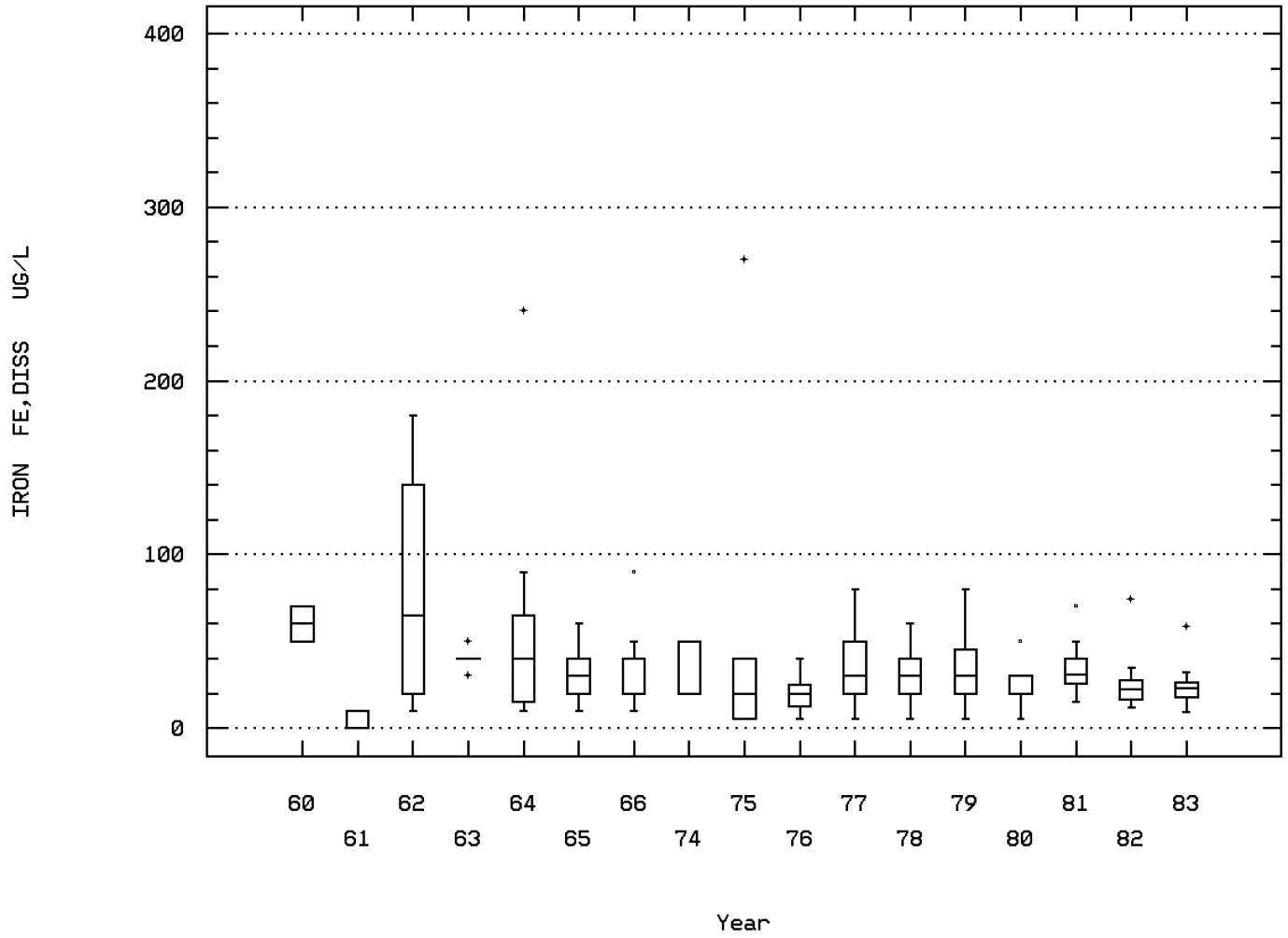
BORON, DISSOLVED (UG/L AS B)



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 01046

IRON, DISSOLVED (UG/L AS FE)



NIOBRARA RIVER NR NORDEN NEBR

Seasonal Analysis for Season #1: 8/01 to 1/14 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/52-09/22/83	108	12.25	11.597	28.9	0.	90.829	9.53	0.	1.5	19.875	25.51
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/74-09/22/83	53	16.	10.755	34.	-21.5	171.343	13.09	3.	7.5	23.5	7.
00060	FLOW, STREAM, MEAN DAILY CFS	09/28/60-09/09/74	40	645.	716.35	1250.	390.	42835.156	206.967	501.	558.25	884.25	969.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/13/50-09/22/83	100	743.	775.06	1240.	456.	31661.188	177.936	569.1	620.5	914.25	1018.
00080p	COLOR (PLATINUM-COBALT UNITS)	09/28/60-09/22/83	55	5.	8.336	80.	0.5	115.852	10.763	3.	5.	10.	15.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-09/22/83	74	231.	231.014	278.	203.	182.726	13.518	215.	222.75	238.	251.
00400p	PH (STANDARD UNITS)	09/28/60-09/22/83	74	7.7	7.666	8.4	7.	0.086	0.293	7.25	7.5	7.9	8.
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-09/22/83	74	7.7	7.566	8.4	7.	0.096	0.31	7.25	7.5	7.9	8.
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-09/22/83	74	0.02	0.027	0.1	0.004	0.	0.021	0.01	0.013	0.032	0.057
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/14/64-09/24/80	42	111.	112.214	133.	93.	45.636	6.755	104.5	110.	116.	120.
00440	BICARBONATE ION (MG/L AS HCO3)	09/28/60-09/18/78	45	138.	138.333	162.	125.	54.955	7.413	130.	132.5	143.	149.4
00445	CARBONATE ION (MG/L AS CO3)	09/28/60-09/18/78	45	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/31/74-09/22/83	53	0.5	0.558	5.1	0.	0.645	0.803	0.034	0.1	0.65	0.98
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/31/74-09/22/83	53	0.07	0.071	0.18	0.01	0.001	0.034	0.02	0.045	0.1	0.11
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-04/06/83	72	97.	96.625	120.	81.	45.308	6.731	89.	92.25	99.75	107.9
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-09/24/80	54	0.	0.093	4.	0.	0.312	0.559	0.	0.	0.	0.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-09/22/83	74	32.	31.838	39.	27.	4.603	2.146	29.5	30.75	33.	34.5
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-09/22/83	74	4.25	4.184	6.6	0.9	0.517	0.719	3.6	3.9	4.5	4.9
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-09/22/83	74	9.1	9.12	12.	8.	0.435	0.659	8.4	8.7	9.525	9.9
00931p	SODIUM ADSORPTION RATIO	09/28/60-04/06/83	72	0.4	0.404	0.5	0.4	0.	0.02	0.4	0.4	0.4	0.4
00932	SODIUM, PERCENT	10/14/64-04/06/83	53	16.	16.	19.	14.	1.038	1.019	15.	15.	16.5	17.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-09/22/83	74	6.1	6.199	8.1	3.9	0.533	0.73	5.45	5.8	6.6	7.05
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-09/22/83	74	2.	1.499	3.	0.	0.436	0.66	0.9	1.	2.	2.
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-09/22/83	74	7.	7.122	12.	2.	4.04	2.01	5.	6.	8.	10.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-09/22/83	74	0.3	0.372	2.	0.3	0.04	0.199	0.3	0.3	0.4	0.4
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-09/22/83	72	54.	53.861	63.	43.	14.966	3.869	49.	51.	57.	59.
01020p	BORON, DISSOLVED (UG/L AS B)	09/28/60-09/22/83	74	30.	30.676	110.	0.	294.058	17.148	20.	20.	30.	50.
01046p	IRON, DISSOLVED (UG/L AS FE)	09/28/60-09/22/83	74	30.	33.041	240.	0.	1000.615	31.632	5.	20.	40.	65.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	12/13/60-09/22/83	68	5.	11.14	120.	0.	414.253	20.353	0.	3.	7.5	31.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-10/06/66	21	186.	187.429	199.	172.	48.357	6.954	176.2	184.	192.5	198.4
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/31/74-04/06/83	47	182.	182.617	218.	165.	111.198	10.545	169.	176.	190.	194.6
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/06/63-03/09/83	63	320.	354.762	701.	201.	8197.442	90.54	265.4	291.	417.	473.2
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/06/63-03/09/83	62	0.25	0.258	0.48	0.22	0.002	0.039	0.23	0.24	0.26	0.291
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	04/13/50-09/28/67	56	14.	16.964	64.	2.	128.871	11.352	6.7	10.25	21.5	28.2
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	04/13/50-09/28/67	56	36.5	38.411	77.	10.	203.337	14.26	22.1	30.	45.75	57.5
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/08/50-09/28/67	56	87.5	84.946	97.	47.	103.979	10.197	72.5	81.25	93.	95.
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/08/50-09/28/67	56	100.	99.143	100.	90.	2.888	1.7	97.7	99.	100.	100.
70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	09/21/50-08/16/67	21	100.	100.	100.	100.	0.	0.	100.	100.	100.	100.
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/28/60-10/06/66	21	0.4	0.662	2.	0.	0.284	0.533	0.12	0.25	1.1	1.44
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/13/50-09/28/67	64	886.	1066.781	4080.	306.	400205.888	632.618	423.5	667.	1355.	1965.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/13/50-09/28/67	64	1900.	2433.516	6440.	335.	2604503.714	1613.847	705.5	1252.5	3360.	5230.
80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	10/07/53-09/28/67	17	0.	0.412	3.	0.	0.632	0.795	0.	0.	1.	1.4
80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	10/07/53-09/28/67	21	1.	3.19	14.	0.	15.962	3.995	0.	1.	5.	11.2
80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	10/07/53-09/28/67	21	42.	42.667	65.	12.	183.033	13.529	19.	36.	52.	61.4
80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	10/07/53-09/28/67	21	95.	91.905	100.	78.	42.19	6.495	79.4	87.	96.5	98.8
80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	10/07/53-09/28/67	20	100.	97.8	100.	90.	10.484	3.238	91.3	96.	100.	100.

** - 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: 1/15 to 3/09 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/52-09/22/83	21	0.5	0.962	7.	0.	2.974	1.725	0.	0.	1.05	3.8
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/74-09/22/83	12	7.75	-1.458	9.	-19.	82.112	9.062	0.95	3.875	-9.875	-17.65
00060	FLOW, STREAM, MEAN DAILY CFS	09/28/60-09/09/74	10	1050.	1062.1	1430.	715.	51157.433	226.18	730.1	891.5	1167.5	1430.
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/13/50-09/22/83	17	989.	980.353	1320.	500.	52883.368	229.964	647.2	807.5	1145.	1304.
00080p	COLOR (PLATINUM-COBALT UNITS)	09/28/60-09/22/83	12	5.	7.083	15.	3.	16.811	4.1	3.	4.	11.5	14.1

** - 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

Seasonal Analysis for Season #2: 1/15 to 3/09 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-09/22/83	18	225.	221.667	247.	187.	274.471	16.567	199.6	209.	232.5	243.4
00400p	PH (STANDARD UNITS)	09/28/60-09/22/83	18	7.4	7.417	8.	7.1	0.059	0.243	7.1	7.2	7.6	7.82
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-09/22/83	18	7.4	7.361	8.	7.1	0.062	0.25	7.1	7.2	7.6	7.82
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-09/22/83	18	0.04	0.044	0.079	0.01	0.	0.021	0.015	0.025	0.063	0.079
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/14/64-09/24/80	8	106.	106.	120.	98.	59.429	7.709	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/28/60-09/18/78	11	131.	131.545	150.	119.	74.673	8.641	119.4	125.	136.	147.6
00445	CARBONATE ION (MG/L AS CO3)	09/28/60-09/18/78	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/31/74-09/22/83	11	0.6	0.609	0.9	0.5	0.015	0.122	0.5	0.5	0.7	0.86
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/31/74-09/22/83	12	0.1	0.163	0.82	0.09	0.043	0.207	0.09	0.093	0.118	0.61
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-04/06/83	18	95.5	93.111	110.	77.	63.987	7.999	81.5	87.25	98.	101.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-09/24/80	13	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-09/22/83	18	31.	30.722	37.	25.	7.389	2.718	26.8	29.	32.25	33.4
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-09/22/83	18	3.95	3.994	5.1	3.1	0.27	0.52	3.37	3.6	4.325	5.01
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-09/22/83	18	8.7	8.689	9.7	7.	0.429	0.655	7.81	8.3	9.15	9.61
00931p	SODIUM ADSORPTION RATIO	09/28/60-04/06/83	18	0.4	0.4	0.4	0.4	0.	0.	0.4	0.4	0.4	0.4
00932	SODIUM, PERCENT	10/14/64-04/06/83	11	16.	15.727	18.	14.	1.018	1.009	14.2	15.	16.	17.6
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-09/22/83	17	5.6	5.818	6.9	5.1	0.255	0.505	5.18	5.5	6.25	6.58
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-09/22/83	17	1.	1.376	3.	0.1	0.681	0.825	0.26	1.	2.	3.
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-09/22/83	17	8.	7.706	12.	5.	2.846	1.687	5.8	6.5	8.5	10.4
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-09/22/83	17	0.3	0.341	0.4	0.2	0.004	0.062	0.28	0.3	0.4	0.4
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-09/22/83	17	52.	53.588	66.	47.	33.382	5.778	47.	49.5	57.5	64.4
01020p	BORON, DISSOLVED (UG/L AS B)	09/28/60-09/22/83	17	20.	21.176	40.	10.	61.029	7.812	10.	20.	25.	32.
01046p	IRON, DISSOLVED (UG/L AS FE)	09/28/60-09/22/83	18	24.5	27.833	60.	5.	262.029	16.187	5.	17.5	40.	51.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	12/13/60-09/22/83	17	5.	6.824	50.	0.	131.154	11.452	0.	1.5	5.5	18.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-10/06/66	6	182.5	182.167	195.	172.	86.167	9.283	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/31/74-04/06/83	11	178.	178.	203.	155.	211.	14.526	156.8	165.	191.	201.2
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/06/63-03/09/83	15	496.	474.467	664.	258.	9704.695	98.512	318.	417.	539.	596.8
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/06/63-03/09/83	15	0.24	0.243	0.28	0.21	0.	0.019	0.216	0.23	0.26	0.268
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	04/13/50-09/28/67	8	7.	12.25	28.	3.	107.071	10.348	**	**	**	**
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	04/13/50-09/28/67	8	19.5	26.125	49.	11.	197.268	14.045	**	**	**	**
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/08/50-09/28/67	8	83.	81.375	94.	68.	72.554	8.518	**	**	**	**
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/08/50-09/28/67	8	100.	99.625	100.	99.	0.268	0.518	**	**	**	**
70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	09/21/50-08/16/67	3	100.	100.	100.	100.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/28/60-10/06/66	6	0.75	0.683	1.3	0.1	0.214	0.462	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/13/50-09/28/67	9	852.	962.222	2770.	304.	527723.444	726.446	304.	484.	1018.	2770.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/13/50-09/28/67	9	2000.	2226.444	3670.	648.	885188.778	940.845	648.	1570.	2920.	3670.
80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	10/07/53-09/28/67	4	0.	0.5	2.	0.	1.	1.	**	**	**	**
80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	10/07/53-09/28/67	5	2.	2.4	7.	0.	7.3	2.702	**	**	**	**
80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	10/07/53-09/28/67	5	39.	38.8	56.	19.	197.2	14.043	**	**	**	**
80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	10/07/53-09/28/67	5	86.	88.8	100.	79.	67.7	8.228	**	**	**	**
80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	10/07/53-09/28/67	4	96.	95.	98.	90.	12.667	3.559	**	**	**	**

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Seasonal Analysis for Season #3: 3/10 to 7/31 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/52-09/22/83	98	17.9	17.053	32.2	0.	70.709	8.409	5.49	10.75	23.625	27.58
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/74-09/22/83	41	20.5	18.744	30.	-2.	63.939	7.996	8.5	15.5	24.75	27.4
00060	FLOW, STREAM, MEAN DAILY CFS	09/28/60-09/09/74	43	840.	919.86	2230.	464.	164513.504	405.603	555.4	606.	1090.	1220.
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/13/50-09/22/83	88	958.	1027.489	2890.	427.	194130.506	440.602	570.7	729.25	1165.	1622.
00080p	COLOR (PLATINUM-COBALT UNITS)	09/28/60-09/22/83	46	10.	11.967	45.	0.	108.138	10.399	2.	5.	15.5	27.9
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-09/22/83	62	230.	233.242	282.	188.	374.449	19.351	209.6	219.	247.	257.7
00400p	PH (STANDARD UNITS)	09/28/60-09/22/83	62	7.75	7.755	8.8	6.9	0.105	0.325	7.33	7.5	7.9	8.2
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-09/22/83	62	7.747	7.641	8.8	6.9	0.119	0.344	7.33	7.5	7.9	8.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-09/22/83	62	0.018	0.023	0.126	0.002	0.	0.019	0.006	0.013	0.032	0.047
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/14/64-09/24/80	34	110.	111.441	123.	90.	48.254	6.947	103.	110.	116.5	120.

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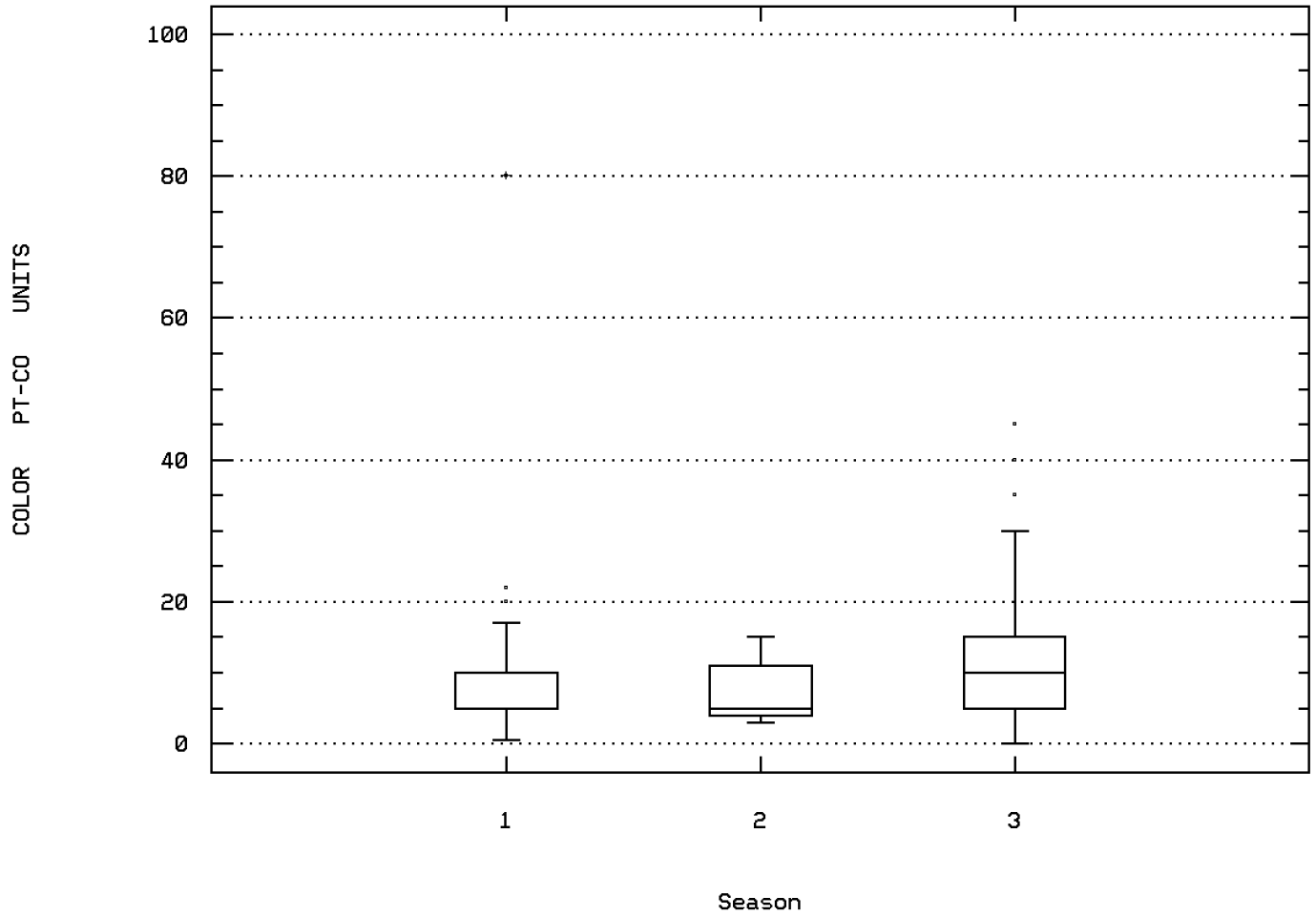
Seasonal Analysis for Season #3: 3/10 to 7/31 - Station NIOB0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00440	BICARBONATE ION (MG/L AS HCO3)	09/28/60-09/18/78	39	140.	138.923	155.	110.	88.599	9.413	126.	135.	145.	150.
00445	CARBONATE ION (MG/L AS CO3)	09/28/60-09/18/78	39	0.	0.051	2.	0.	0.103	0.32	0.	0.	0.	0.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/31/74-09/22/83	43	0.2	0.249	1.	0.	0.047	0.217	0.024	0.07	0.4	0.46
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/31/74-09/22/83	43	0.06	0.074	0.18	0.01	0.001	0.036	0.044	0.05	0.09	0.138
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-04/06/83	59	96.	96.339	120.	81.	56.538	7.519	87.	92.	100.	110.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-09/24/80	48	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-09/22/83	62	32.	31.952	39.	27.	7.489	2.737	28.	30.	34.	35.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-09/22/83	62	4.3	4.173	5.5	2.3	0.338	0.581	3.43	3.975	4.5	4.8
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-09/22/83	62	9.5	9.706	14.	7.3	1.807	1.344	8.4	8.875	10.	12.
00931p	SODIUM ADSORPTION RATIO	09/28/60-04/06/83	59	0.4	0.414	0.5	0.3	0.002	0.043	0.4	0.4	0.4	0.5
00932	SODIUM, PERCENT	10/14/64-04/06/83	40	16.5	16.75	22.	14.	2.038	1.428	15.1	16.	17.	18.9
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-09/22/83	62	6.8	6.815	8.4	4.2	0.502	0.708	6.03	6.3	7.2	7.8
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-09/22/83	62	2.	1.526	3.	0.	0.513	0.716	0.83	1.	2.	2.
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-09/22/83	62	7.	7.565	20.	2.	7.758	2.785	5.	6.	9.	10.7
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-09/22/83	62	0.4	0.385	0.6	0.2	0.005	0.072	0.3	0.3	0.4	0.5
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-09/22/83	61	51.	50.689	60.	37.	26.251	5.124	44.2	47.	54.	58.
01020p	BORON, DISSOLVED (UG/L AS B)	09/28/60-09/22/83	62	30.	30.968	80.	0.	221.999	14.9	10.	20.	40.	50.
01046p	IRON, DISSOLVED (UG/L AS FE)	09/28/60-09/22/83	62	25.5	35.968	270.	5.	1611.933	40.149	10.	20.	40.	60.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	12/13/60-09/22/83	57	5.	8.684	130.	0.	365.532	19.119	0.	1.5	5.	22.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-10/06/66	19	192.	190.947	205.	178.	55.275	7.435	180.	185.	195.	201.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/31/74-04/06/83	39	178.	178.769	204.	143.	139.709	11.82	166.	173.	185.	194.
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/06/63-03/09/83	54	387.5	462.556	2620.01	165.	111199.971	333.467	263.	314.25	499.75	653.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/06/63-03/09/83	53	0.25	0.259	0.59	0.19	0.003	0.058	0.23	0.24	0.26	0.276
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	04/13/50-09/28/67	57	16.	21.825	89.	5.	300.147	17.325	10.	12.	25.5	41.2
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	04/13/50-09/28/67	57	34.	39.614	97.	17.	315.027	17.749	21.6	28.	48.5	58.2
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/08/50-09/28/67	56	81.5	83.357	99.	72.	55.361	7.44	74.	78.	88.	94.
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/08/50-09/28/67	56	100.	99.554	100.	97.	0.433	0.658	99.	99.	100.	100.
70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	09/21/50-08/16/67	21	100.	100.	100.	100.	0.	0.	100.	100.	100.	100.
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/28/60-10/06/66	19	0.4	0.668	1.8	0.	0.31	0.557	0.1	0.2	1.1	1.7
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/13/50-09/28/67	68	1070.	1176.75	3520.	300.	436790.071	660.901	436.	715.75	1545.	2026.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/13/50-09/28/67	68	2920.	3641.265	15300.	443.	9495992.675	3081.557	728.8	1425.	4697.5	6649.
80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	10/07/53-09/28/67	19	0.	1.053	16.	0.	13.608	3.689	0.	0.	0.	3.
80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	10/07/53-09/28/67	24	3.	5.375	33.	0.	50.071	7.076	0.	1.	7.75	12.5
80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	10/07/53-09/28/67	24	51.	49.917	85.	17.	253.993	15.937	31.	35.5	61.25	71.5
80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	10/07/53-09/28/67	24	95.	93.25	100.	79.	32.022	5.659	83.5	90.25	97.	100.
80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	10/07/53-09/28/67	21	100.	98.905	100.	94.	2.79	1.67	96.2	98.	100.	100.

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Station: NIOB0028 Parameter Code: 00080

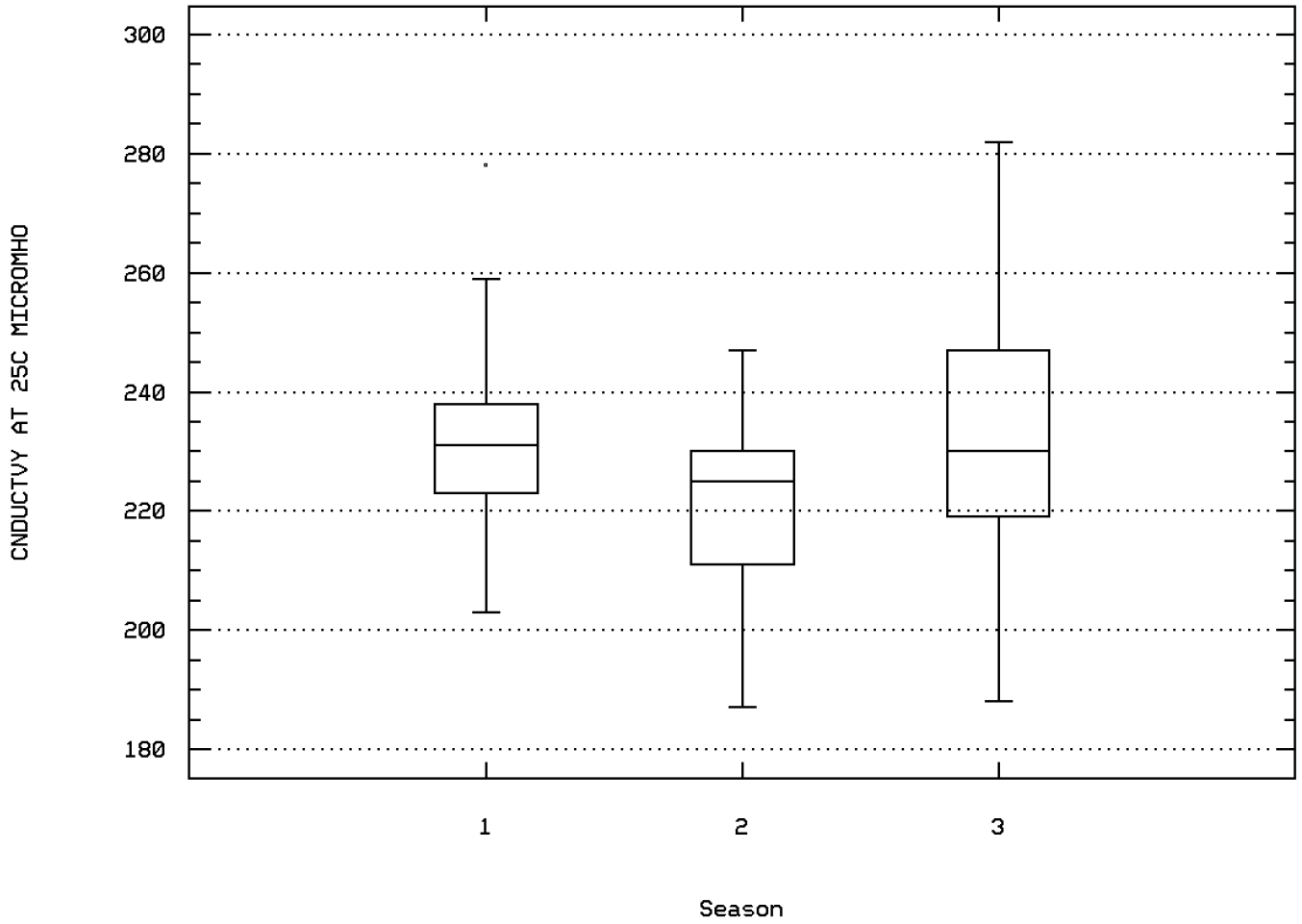
COLOR (PLATINUM-COBALT UNITS)



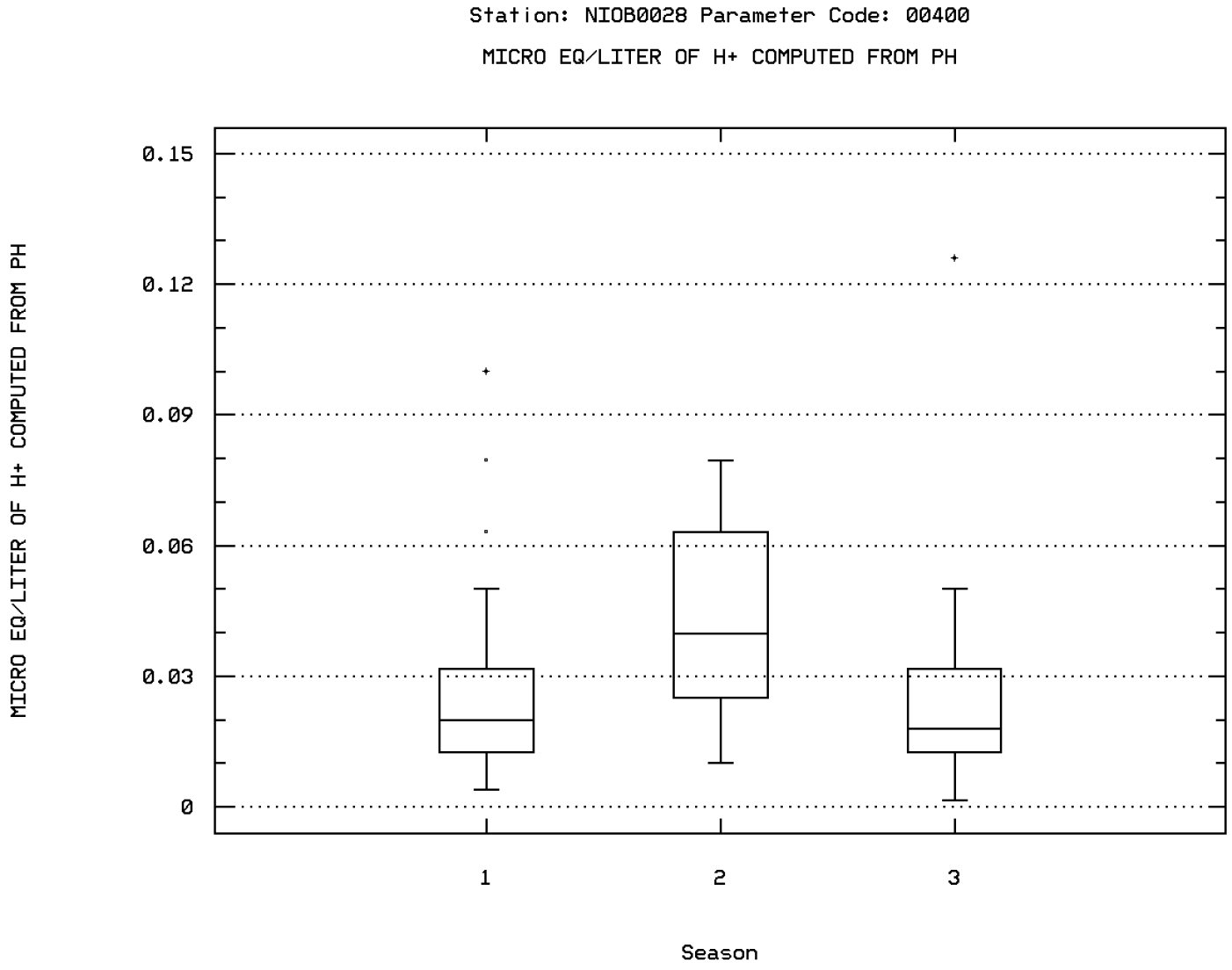
NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



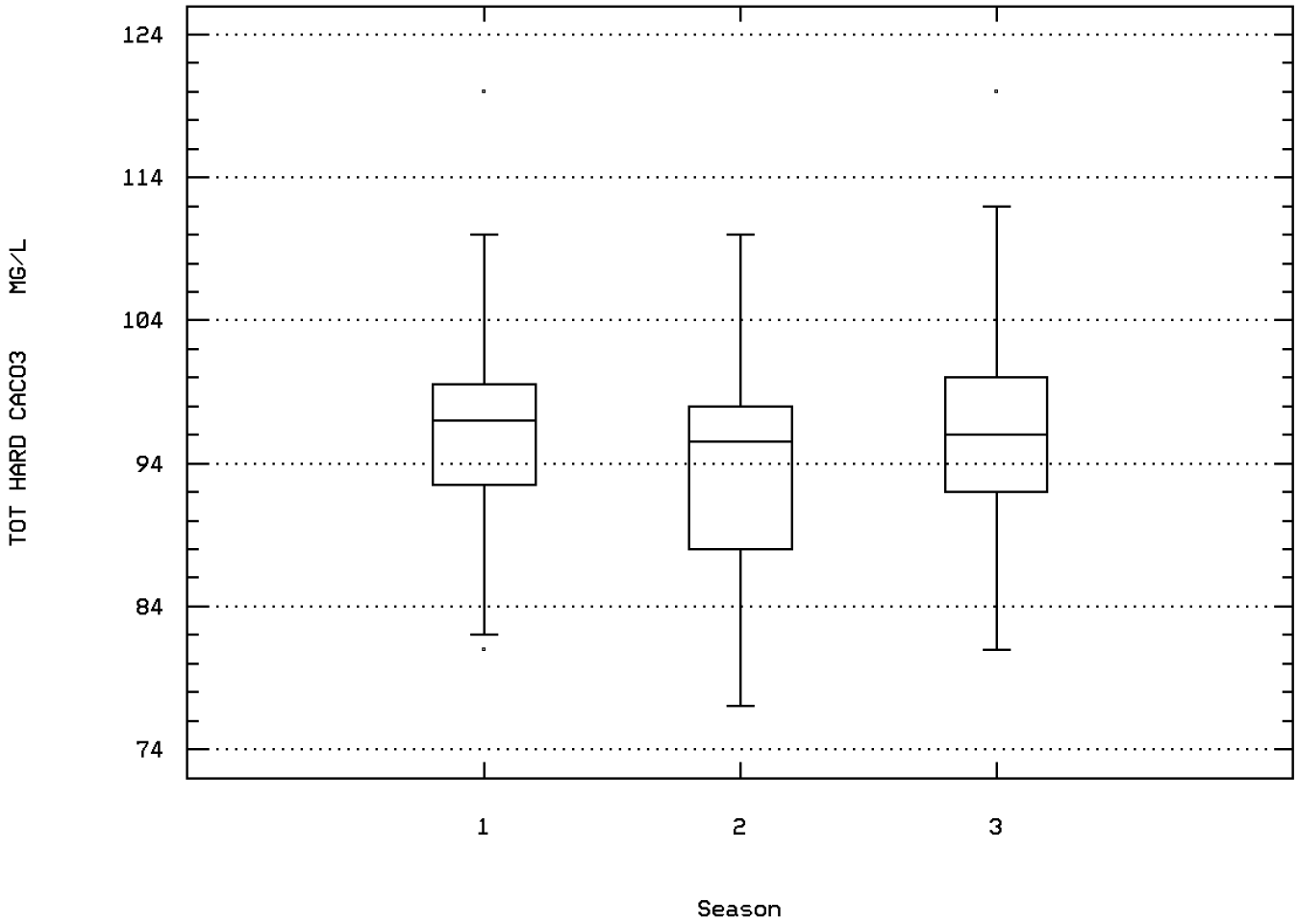
NIOBRARA RIVER NR NORDEN NEBR



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 00900

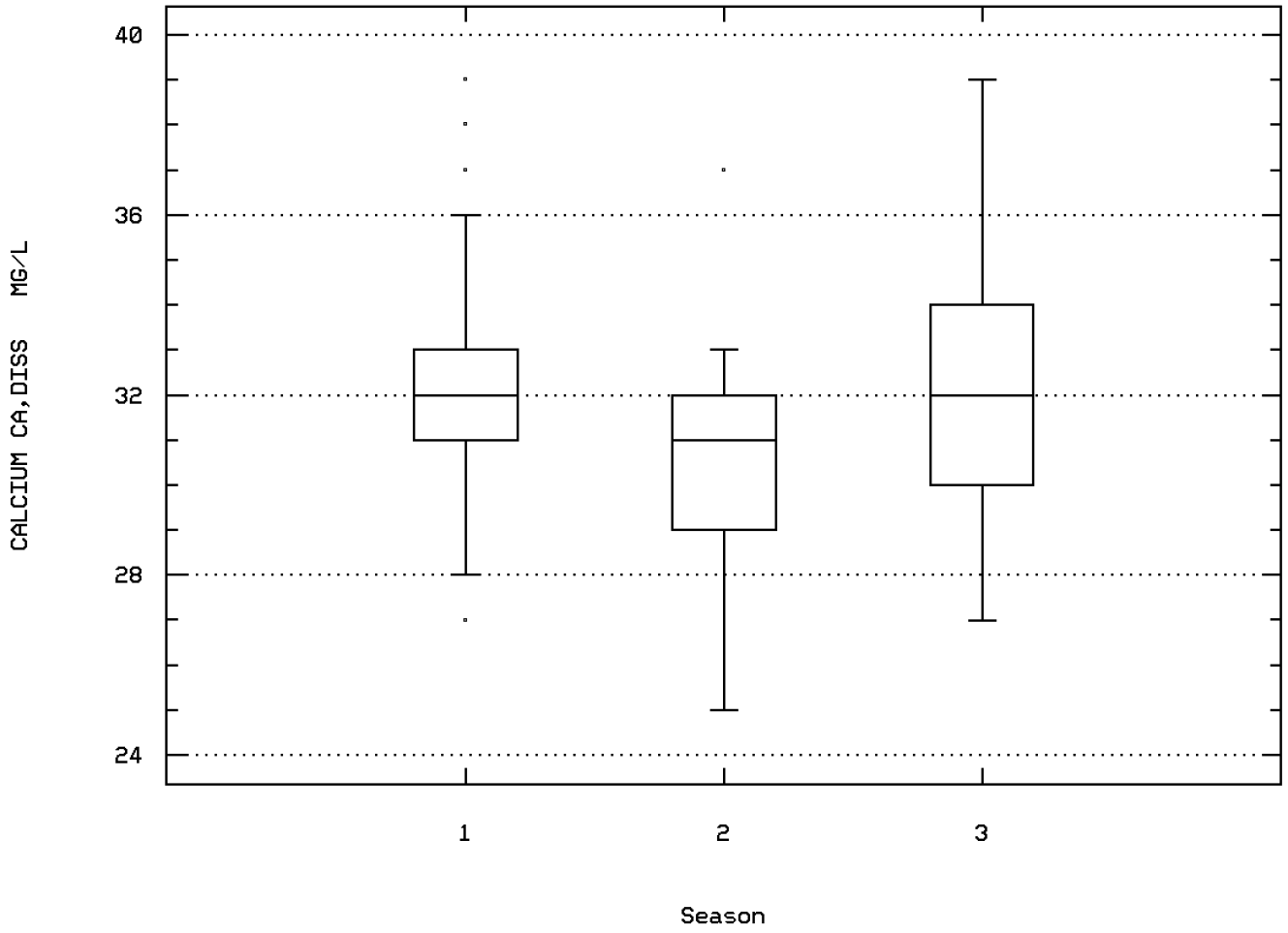
HARDNESS, TOTAL (MG/L AS CACO3)



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 00915

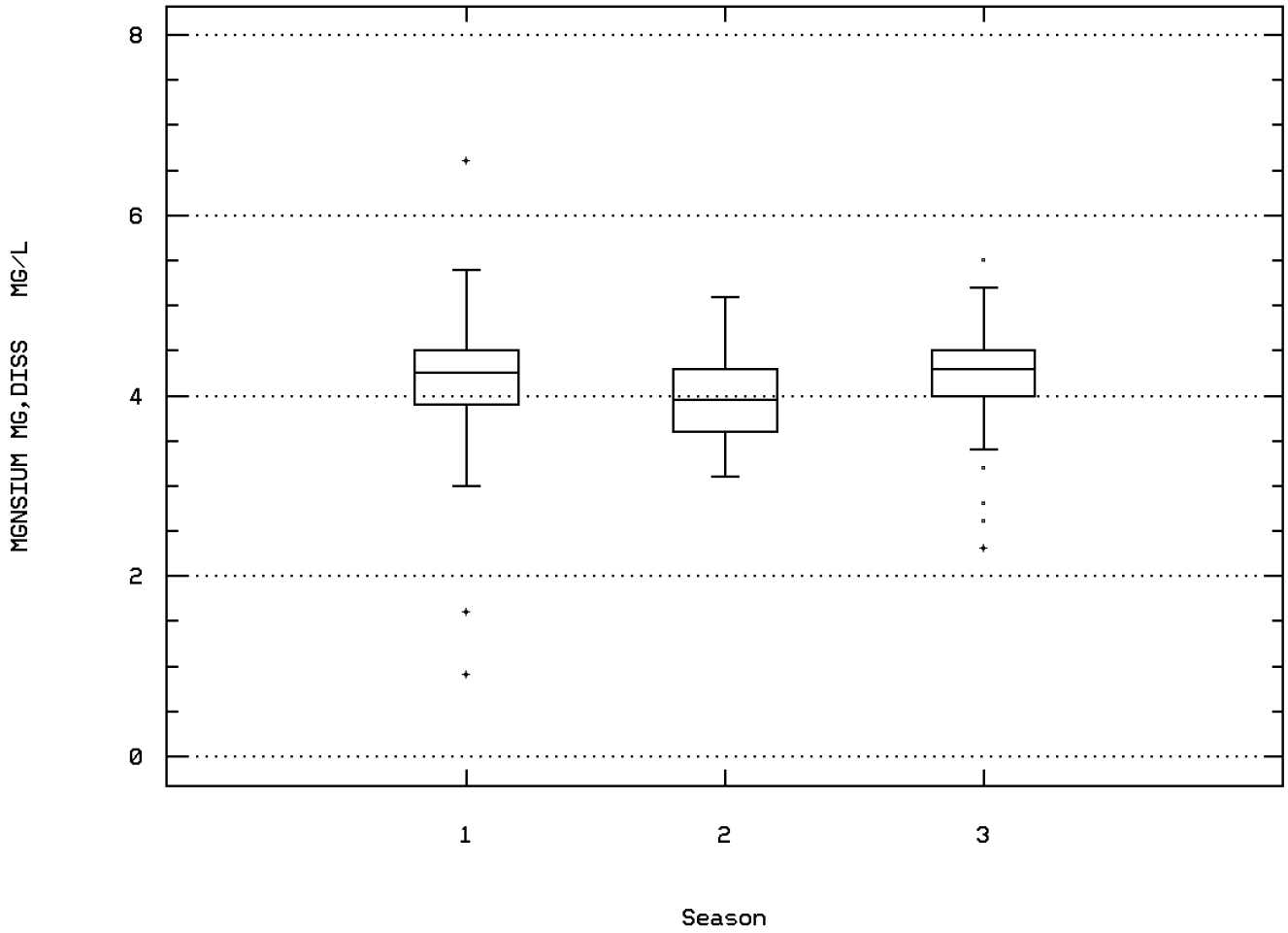
CALCIUM, DISSOLVED (MG/L AS CA)



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 00925

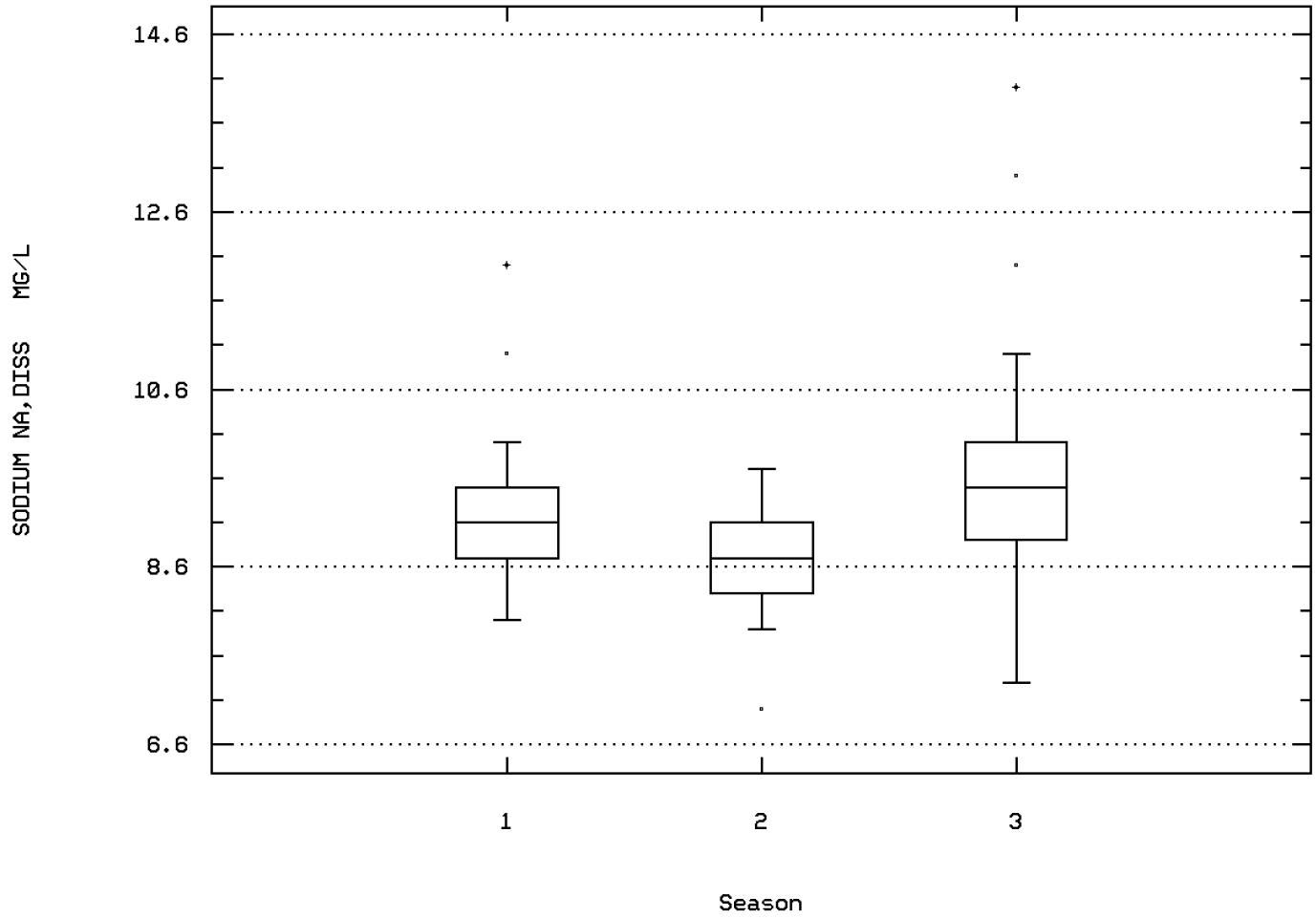
MAGNESIUM, DISSOLVED (MG/L AS MG)



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 00930

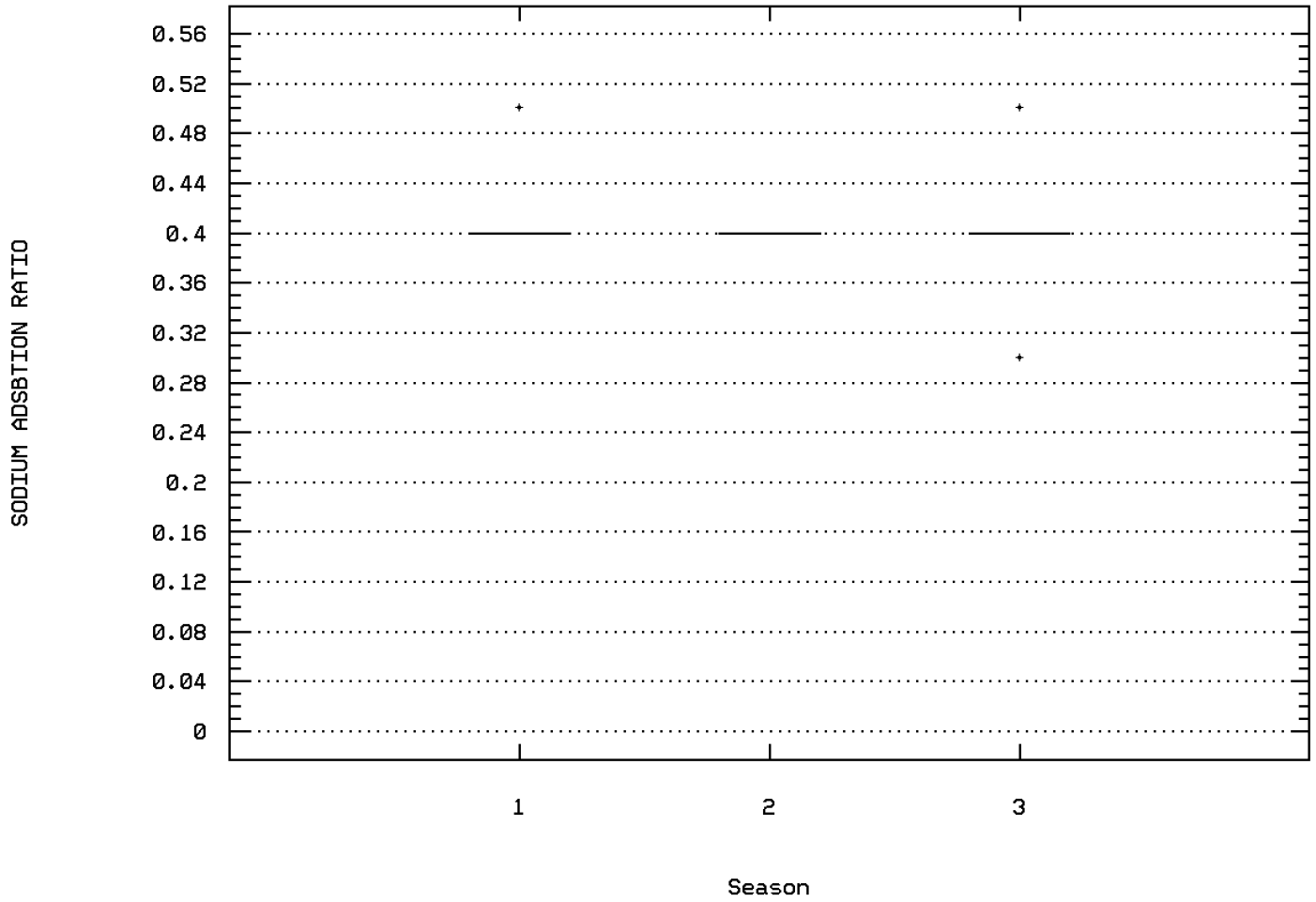
SODIUM, DISSOLVED (MG/L AS NA)



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 00931

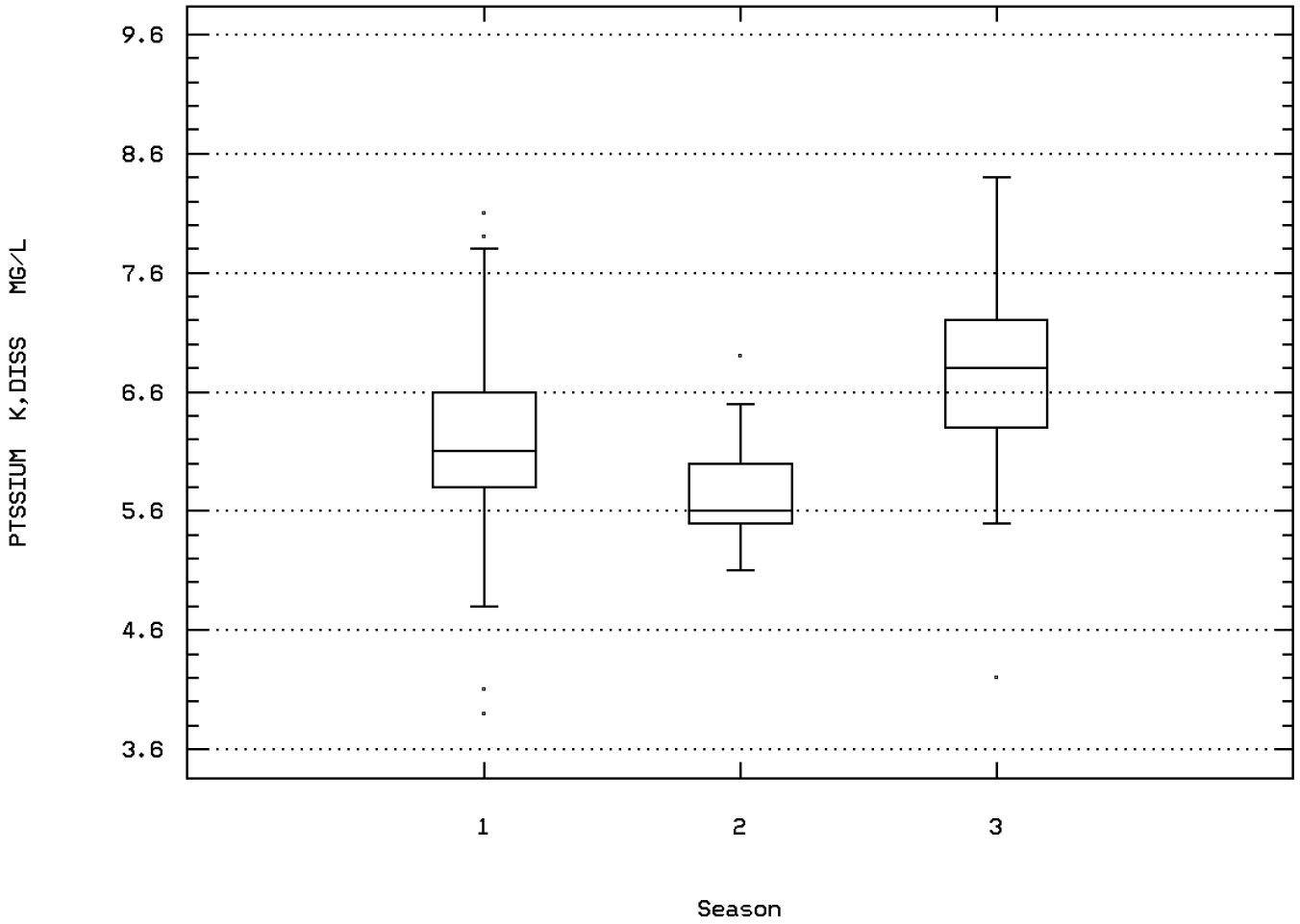
SODIUM ADSORPTION RATIO



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 00935

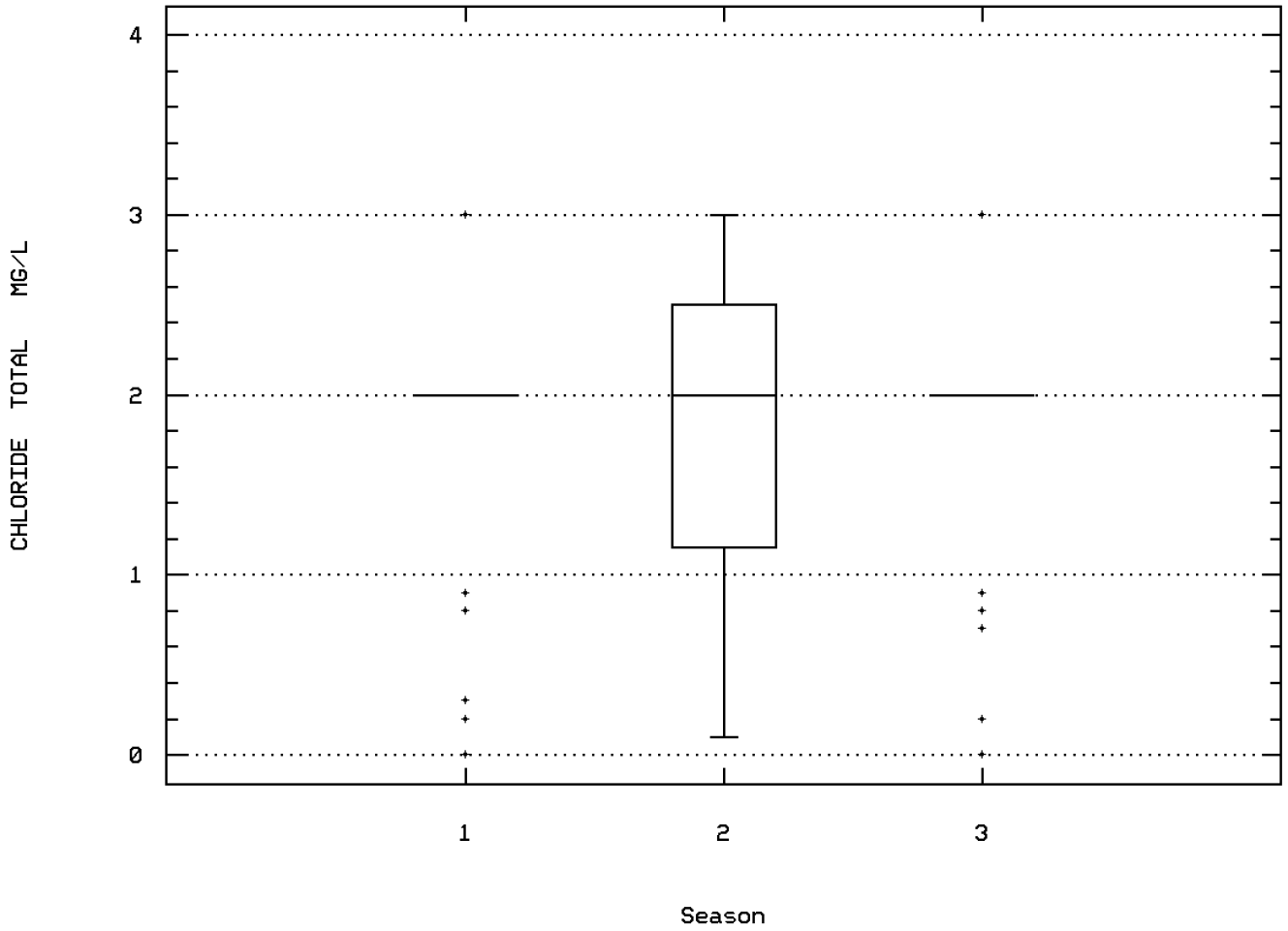
POTASSIUM, DISSOLVED (MG/L AS K)



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 00940

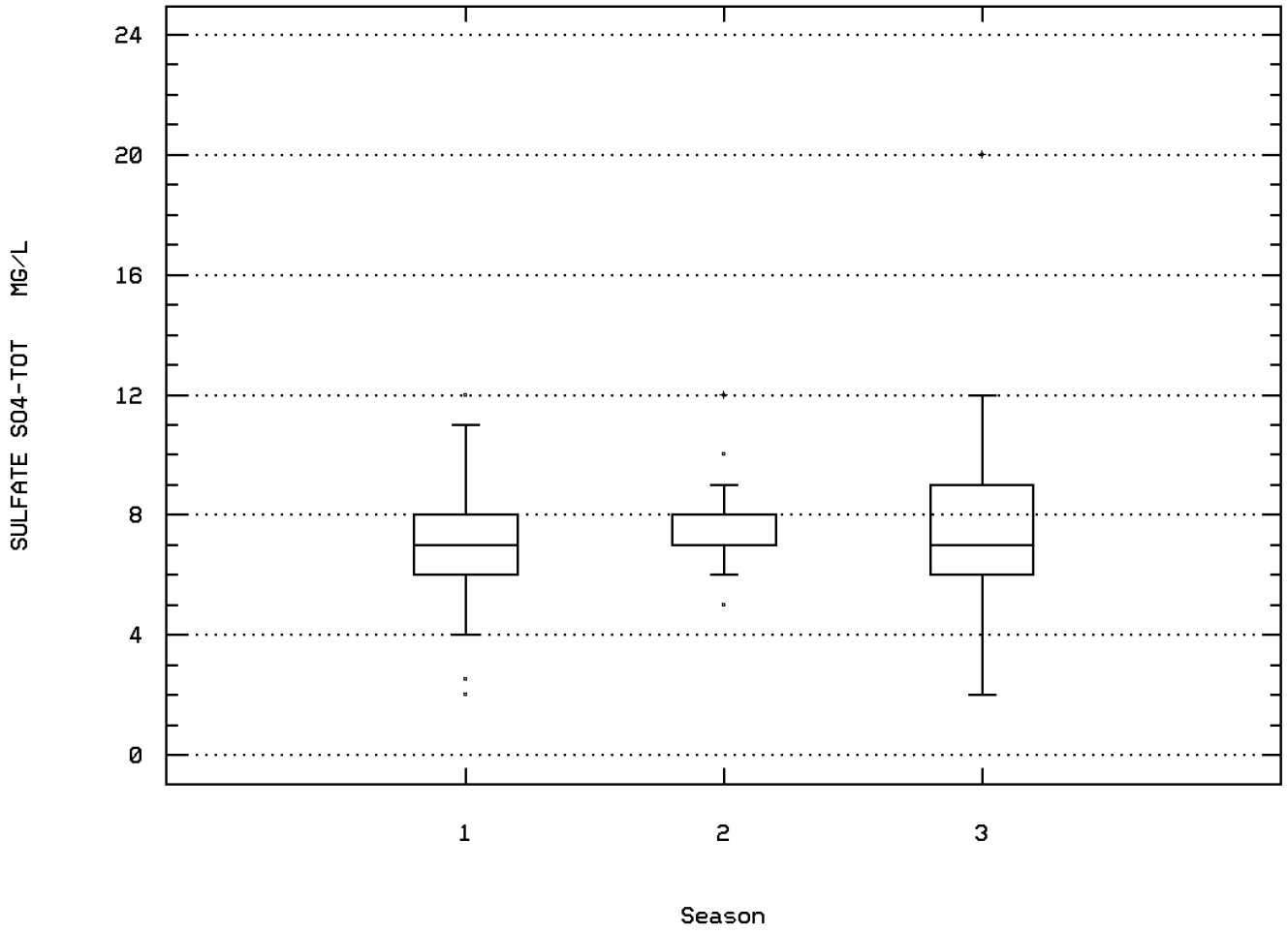
CHLORIDE,TOTAL IN WATER



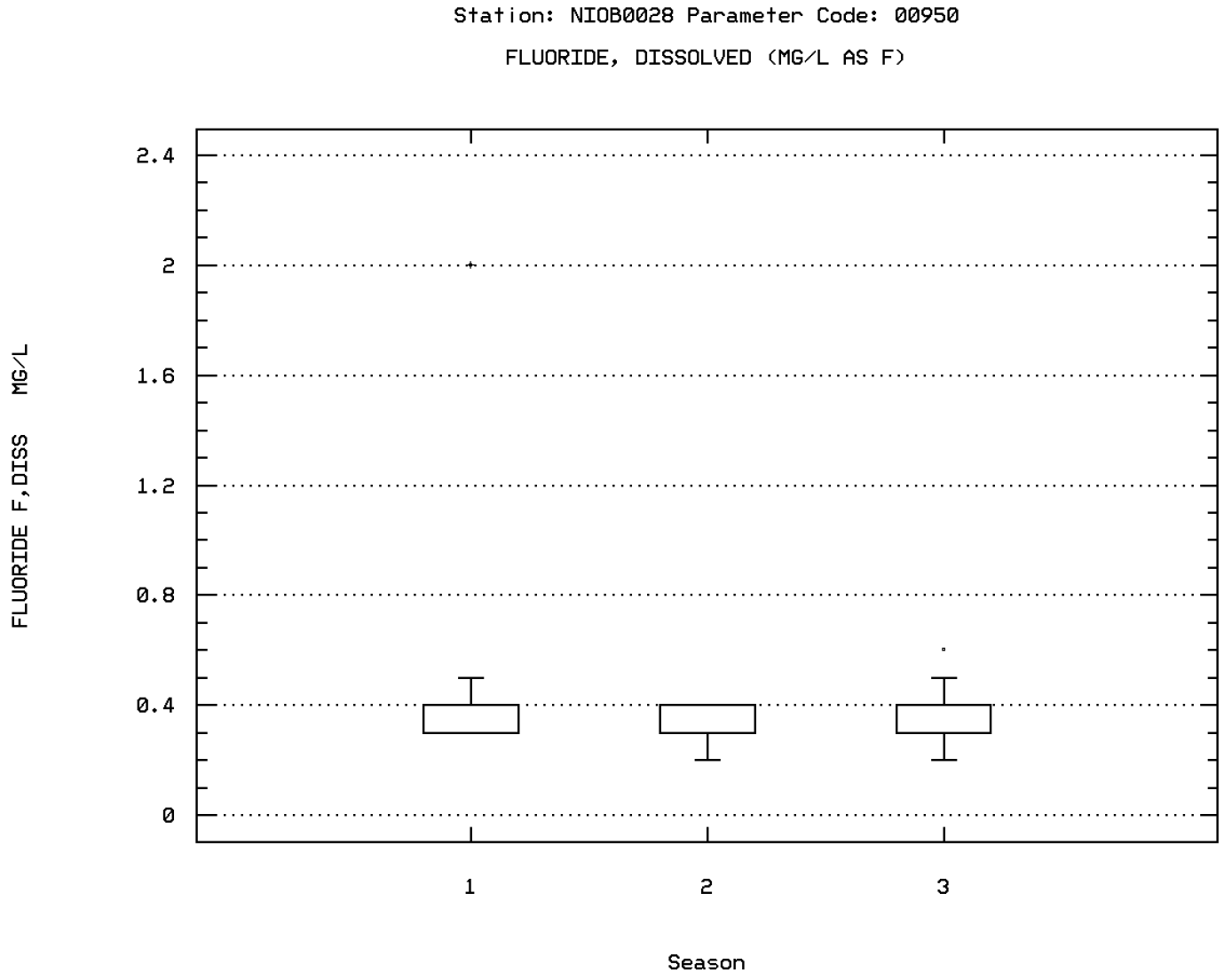
NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 00945

SULFATE, TOTAL (MG/L AS SO4)



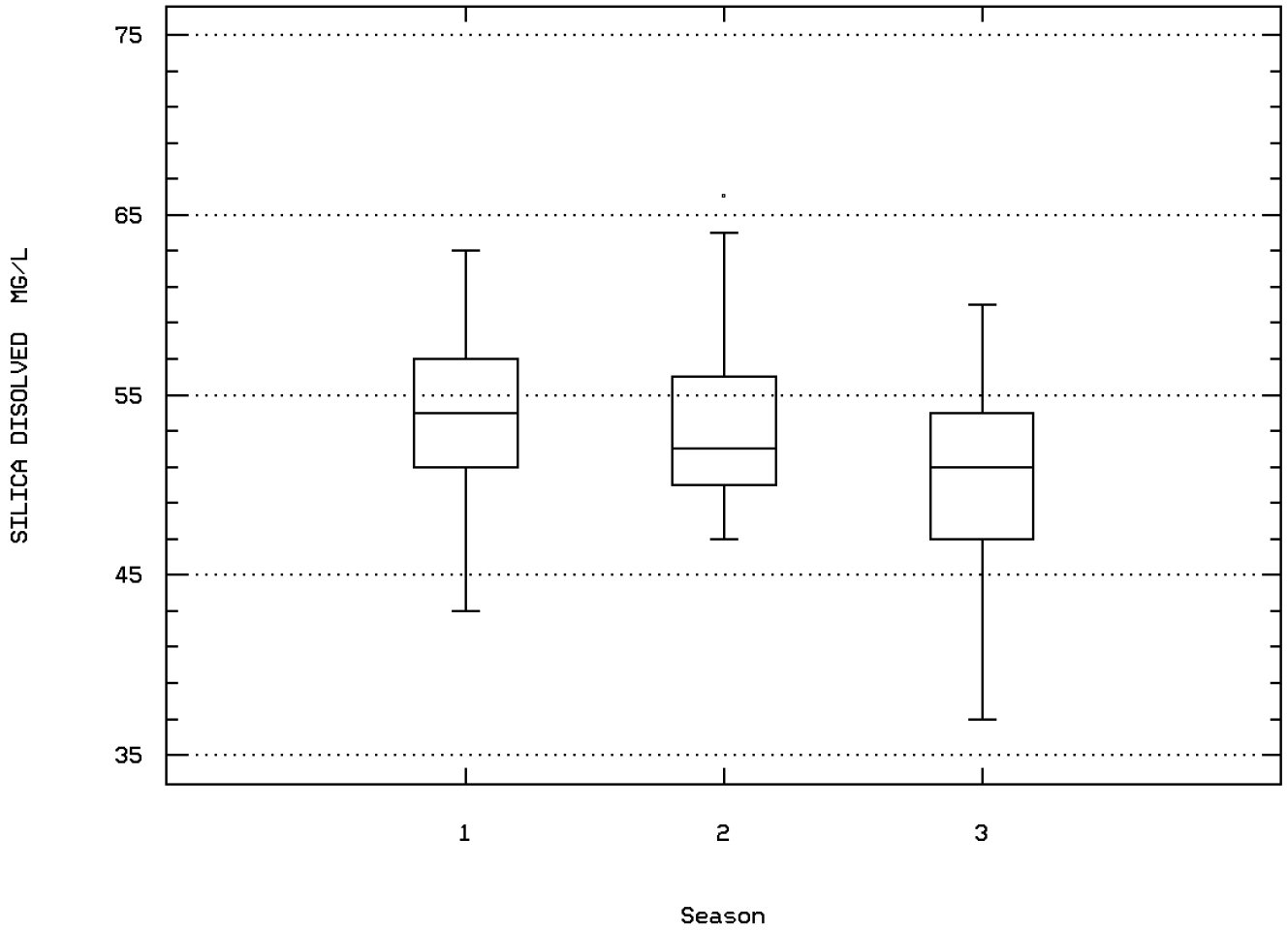
NIOBRARA RIVER NR NORDEN NEBR



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 00955

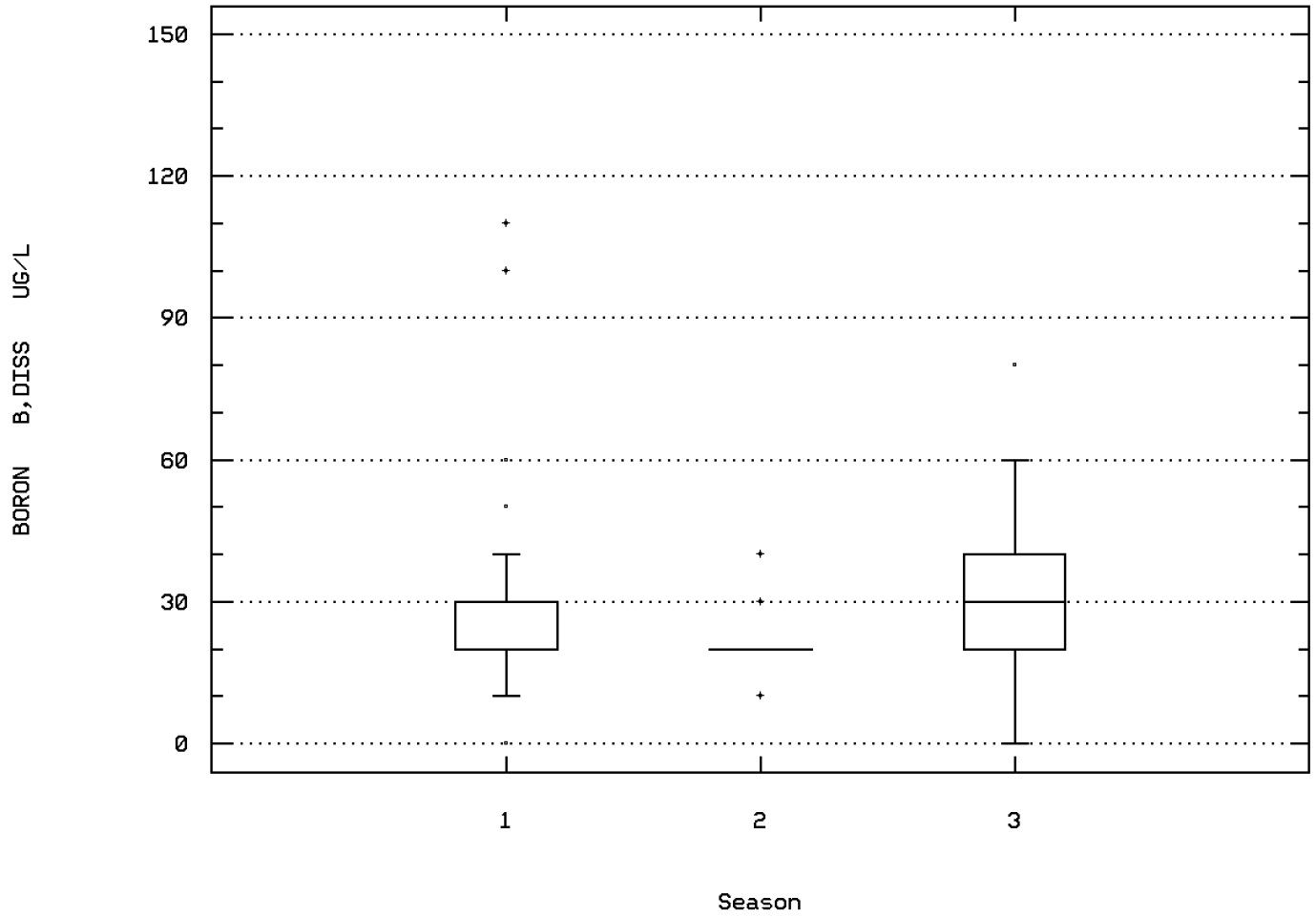
SILICA, DISSOLVED (MG/L AS SI02)



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 01020

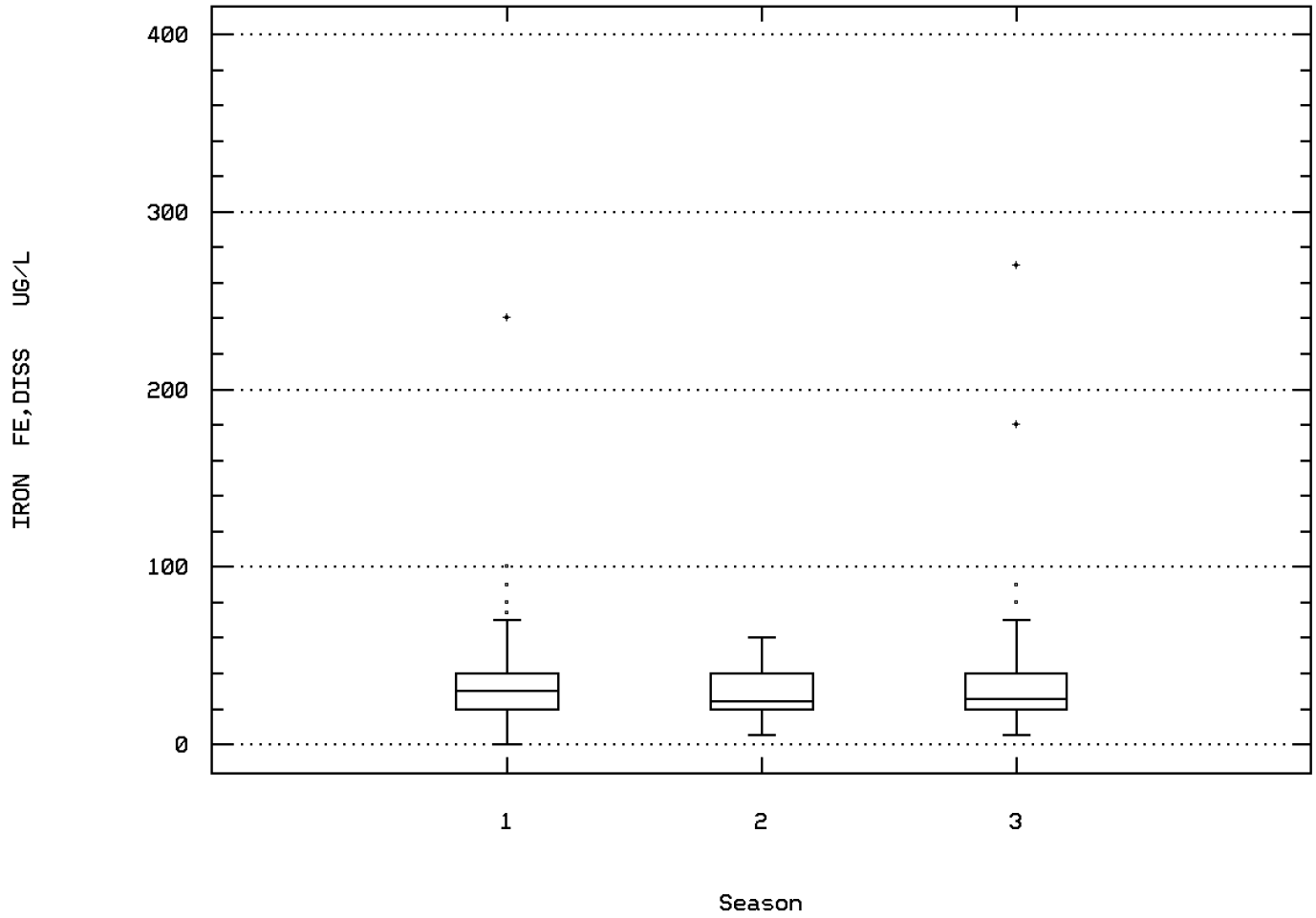
BORON, DISSOLVED (UG/L AS B)



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 01046

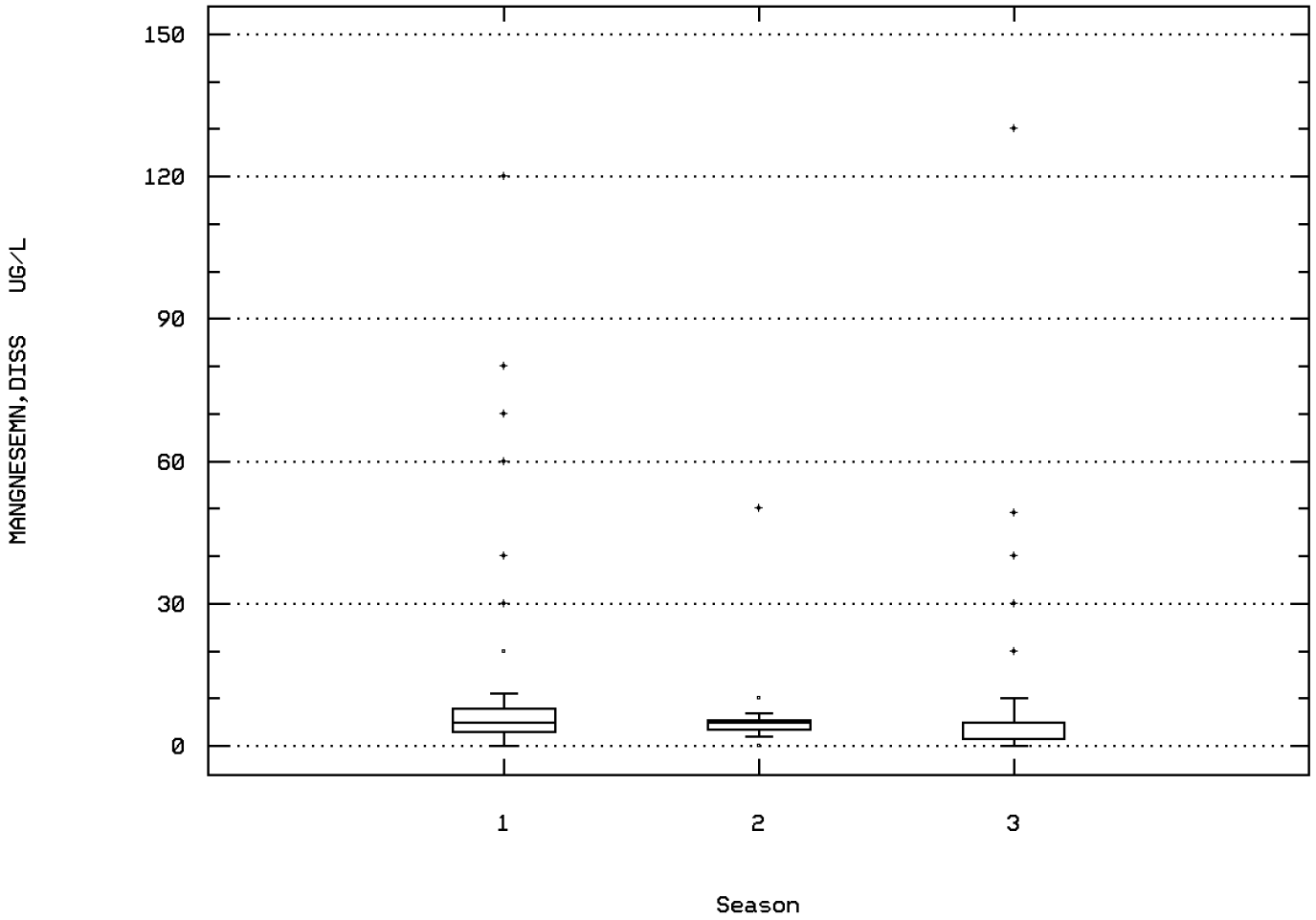
IRON, DISSOLVED (UG/L AS FE)



NIOBRARA RIVER NR NORDEN NEBR

Station: NIOB0028 Parameter Code: 01056

MANGANESE, DISSOLVED (UG/L AS MN)



NIOBRARA RIVER NR NORDEN NEBR

Station Inventory for Station: NIOB0029

NPS Station ID: NIOB0029
LAT/LON: 42.786115/-100.075003
Agency: 21NEB001
Date Created: 05/07/88
Location: FAIRFIELD CREEK
FIPS State/County: 31017 NEBRASKA/BROWN
Station Type: /TYPA/AMBNT/STREAM/BIO
STORET Station ID(s): NI3140
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id: NENI3-20500
Minor Basin:
ECO Region: 44G
RF1 Index: 10150004
RF1 Mile Point: 0.000
Distance from RF1: 1.40
On/Off RF1:
RF3 Index: 10150004291900.00
RF3 Mile Point: 0.65
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: NIOB0029

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th

******** No Parameter Data at this Station Suitable for Statistical Analysis ********

Station Inventory for Station: NIOB0030

NPS Station ID: NIOB0030
LAT/LON: 42.823892/-100.134726
Agency: 21NEB001
Date Created: 05/07/88
Location: MULESHOE CREEK
FIPS State/County: 31103 NEBRASKA/KEYA PAHA
Station Type: /TYPA/AMBNT/STREAM/BIO
STORET Station ID(s): NI3180
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id: NENI3-20700
Minor Basin:
ECO Region: 44G
RF1 Index: 10150004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10150004196600.00
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: NIOB0030

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th

******** No Parameter Data at this Station Suitable for Statistical Analysis ********

Station Inventory for Station: NIOB0031

NPS Station ID: NIOB0031
LAT/LON: 42.900227/-100.350698
Agency: 21NEB001
Date Created: / /
Location: NIOBRARA RIVER AT SPARKS
FIPS State/County: 31031 NEBRASKA/CHERRY
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 300961
RMI-Indexes: 1021500
Within Park Boundary: Yes
RMI-Miles: 1149.40
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 0
Water Body Id:
Minor Basin: NIOBRARA
ECO Region:
RF1 Index: 10150004005
RF1 Mile Point: 19.990
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10150004288500.00
RF3 Mile Point: 0.49
Distance from RF3: 0.04
On/Off RF3:
Description:
T34N R26W SEC 22 DA CHERRY COUNTY 5 MILES W AND 3 MILES S OF SPARKS ON HWY 12 OR 10 MILES NE OF VALENTINE ON HWY 12 11-17-78
NO SAMPLES TAKEN: 82/01, 83/11, 83/12, 84/01, 26W SEC22DA CHERRY COUNTY 5 MILES W & 3 MILES S OF SPARKS ON HWY 12

Parameter Inventory for Station: NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	180	11.	12.035	30.	-2.	89.625	9.467	0.	3.	20.	25.9
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/29/68-12/14/77	10	22.	20.87	30.5	4.4	72.231	8.499	5.44	14.95	29.	30.35
00032	CLOUD COVER (PERCENT)	08/06/71-06/06/73	4	7.5	16.25	50.	0.	556.25	23.585	**	**	**	**
00057	FLOW, INDICATES IT HAS BEEN CHECKED	05/26/70-04/10/89	94	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-04/10/89	140	713.5	750.436	2450.	377.	68478.046	261.683	470.	561.25	877.	1058.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/68-12/14/77	11	16.	30.245	177.	3.	2497.763	49.978	3.2	5.	31.	148.8
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	181	224.	225.746	420.	4.	973.146	31.195	201.	211.5	237.	250.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/23/82-06/23/82	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	173	10.2	10.642	14.5	6.5	4.051	2.013	8.24	9.	12.35	13.6
00310	BOD, 5 DAY, 20 DEG C MG/L	12/14/77-09/13/83	53	1.9	2.043	4.8	0.2	1.211	1.1	0.7	1.25	2.9	3.62
00335	COD, .025N K2CR2O7 MG/L	05/30/79-03/30/87	32	15.6	20.047	61.3	2.5	265.159	16.284	2.5	7.25	28.5	49.08
00340	COD, .25N K2CR2O7 MG/L	12/14/77-04/21/93	138	14.	22.739	178.	1.	875.785	29.594	2.5	8.	24.	45.3
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	119	8.2	8.201	9.3	6.9	0.14	0.374	7.7	8.	8.4	8.6
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	119	8.2	8.011	9.3	6.9	0.177	0.42	7.7	8.	8.4	8.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	119	0.006	0.01	0.126	0.001	0.	0.014	0.003	0.004	0.01	0.02
00403	PH, LAB, STANDARD UNITS SU	09/13/83-04/21/93	103	8.	8.099	8.9	7.1	0.143	0.378	7.7	7.9	8.3	8.7
00403	CONVERTED PH, LAB, STANDARD UNITS	09/13/83-04/21/93	103	8.	7.94	8.9	7.1	0.168	0.41	7.7	7.9	8.3	8.7
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/13/83-04/21/93	103	0.01	0.011	0.079	0.001	0.	0.012	0.002	0.005	0.013	0.02
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/68-06/06/73	10	114.	111.8	116.	102.	25.289	5.029	102.6	108.	116.	116.
00500	RESIDUE, TOTAL (MG/L)	05/15/68-05/08/69	3	280.	247.333	316.	146.	8025.333	89.584	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/29/68-05/08/69	2	111.	111.	146.	76.	2450.	49.497	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-05/30/79	8	168.5	182.875	288.	140.	2164.411	46.523	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-04/21/93	170	41.	57.982	610.	2.	3836.881	61.943	18.	27.	65.5	119.4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-04/21/93	170	0.03	0.038	0.24	0.01	0.002	0.04	0.01	0.01	0.04	0.1
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/25/80-04/21/93	39	0.25	0.54	1.77	0.12	0.162	0.403	0.25	0.25	0.72	1.17
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-04/21/93	179	0.33	0.327	0.8	0.	0.041	0.201	0.03	0.18	0.5	0.58
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/15/68-10/04/72	9	0.2	0.411	1.2	0.2	0.119	0.344	0.2	0.2	0.6	1.2
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	12/14/77-01/22/80	23	0.1	0.122	0.2	0.09	0.002	0.042	0.1	0.1	0.12	0.2
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/80-04/21/93	145	0.12	0.124	0.46	0.01	0.005	0.07	0.04	0.09	0.15	0.194
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/22/81-11/04/92	122	2.8	3.247	9.2	1.2	1.924	1.387	2.	2.3	3.925	5.07
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/68-06/06/73	10	98.	99.2	116.	84.	105.956	10.293	84.4	91.	109.	115.6
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-04/21/93	179	29.4	31.535	287.	9.	415.335	20.38	25.6	27.4	31.	34.4
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-04/21/93	177	4.	4.241	15.	2.	1.854	1.362	3.4	3.7	4.4	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: NIOB0031

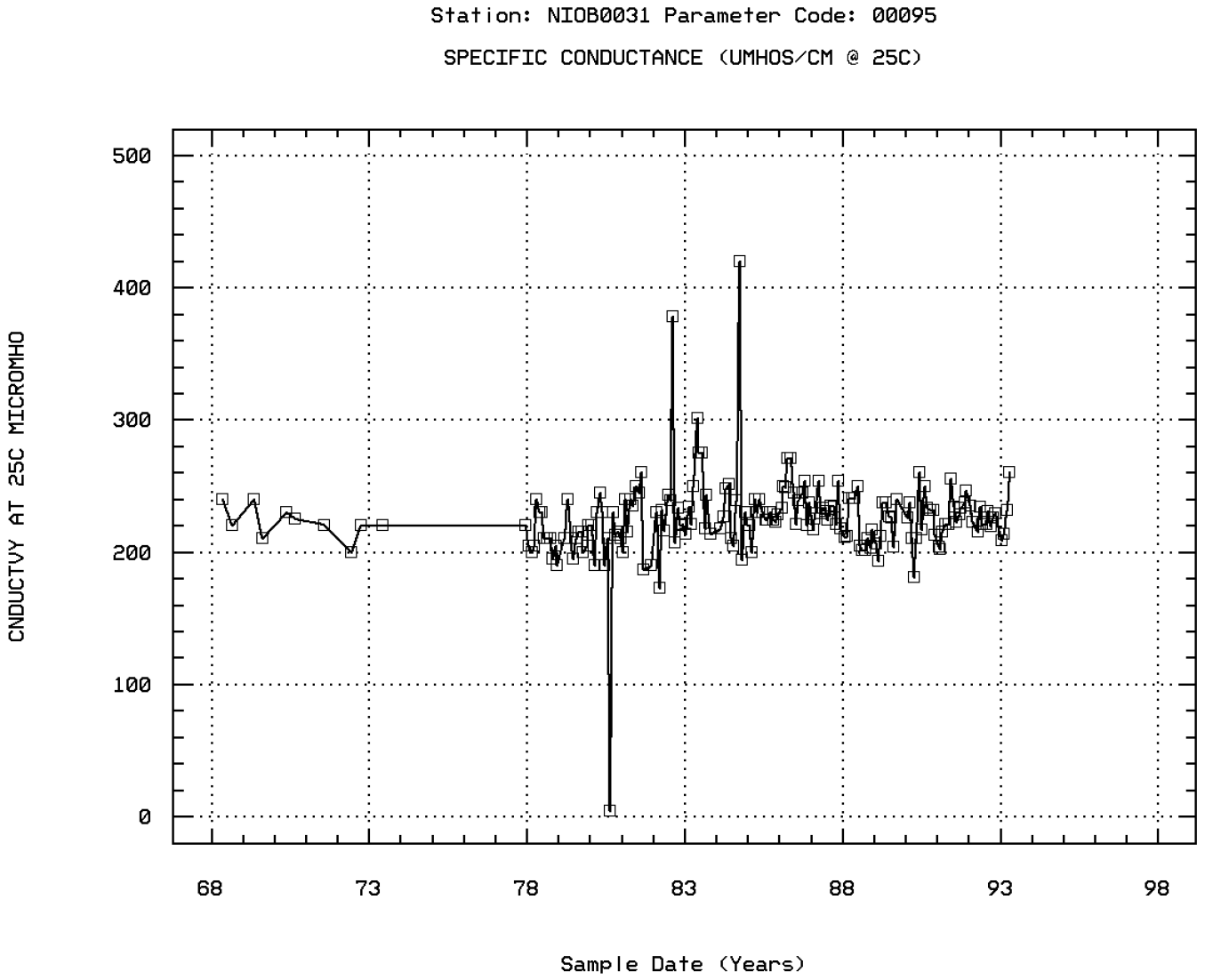
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-04/21/93	179	9.	10.117	151.	5.	118.158	10.87	7.5	8.2	9.9	11.4
00931	SODIUM ADSORPTION RATIO	05/15/68-10/04/72	9	0.7	0.733	1.3	0.4	0.1	0.316	0.4	0.4	1.	1.3
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/68-10/04/72	9	8.	7.778	10.	6.	1.444	1.202	6.	7.	8.5	10.
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	181	2.	2.005	10.	0.5	1.684	1.298	0.5	1.	2.5	3.
00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/68-06/06/73	10	3.	4.65	15.	0.5	22.169	4.708	0.5	0.5	7.5	14.4
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/15/68-05/08/69	3	0.37	0.34	0.37	0.28	0.003	0.052	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/29/68-05/08/69	2	15.	15.	30.	0.	450.	21.213	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	02/13/90-02/13/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/15/68-05/08/69	3	0.	16.667	50.	0.	833.333	28.868	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/15/68-05/08/69	3	50.	217.	600.	1.	110617.	332.591	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/15/68-05/15/68	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	02/13/90-02/13/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	02/13/90-02/13/90	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/15/68-05/08/69	3	50.	83.667	200.	1.	10750.333	103.684	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	171	60.	142.918	1660.	0.	53880.867	232.123	7.	16.	156.	394.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	171	1.778	1.702	3.22	-0.301	0.479	0.692	0.845	1.204	2.193	2.595
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			50.389								
31648	E. COLI - MTEC-MF N0/100ML	06/23/87-09/18/89	28	34.5	95.179	600.	2.	23989.189	154.884	7.	13.5	92.5	355.7
31648	LOG E. COLI - MTEC-MF N0/1	06/23/87-09/18/89	28	1.536	1.557	2.778	0.301	0.386	0.622	0.845	1.129	1.966	2.545
31648	GM E. COLI - MTEC-MF N0/10	GEOMETRIC MEAN =			36.03								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/25/83-04/21/93	105	65.	130.695	2600.	5.	80614.829	283.928	14.2	32.5	118.	255.8
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/25/83-04/21/93	105	1.813	1.799	3.415	0.699	0.236	0.486	1.151	1.511	2.071	2.408
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			62.928								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/20/80-04/29/80	3	0.1	0.137	0.21	0.1	0.004	0.064	**	**	**	**

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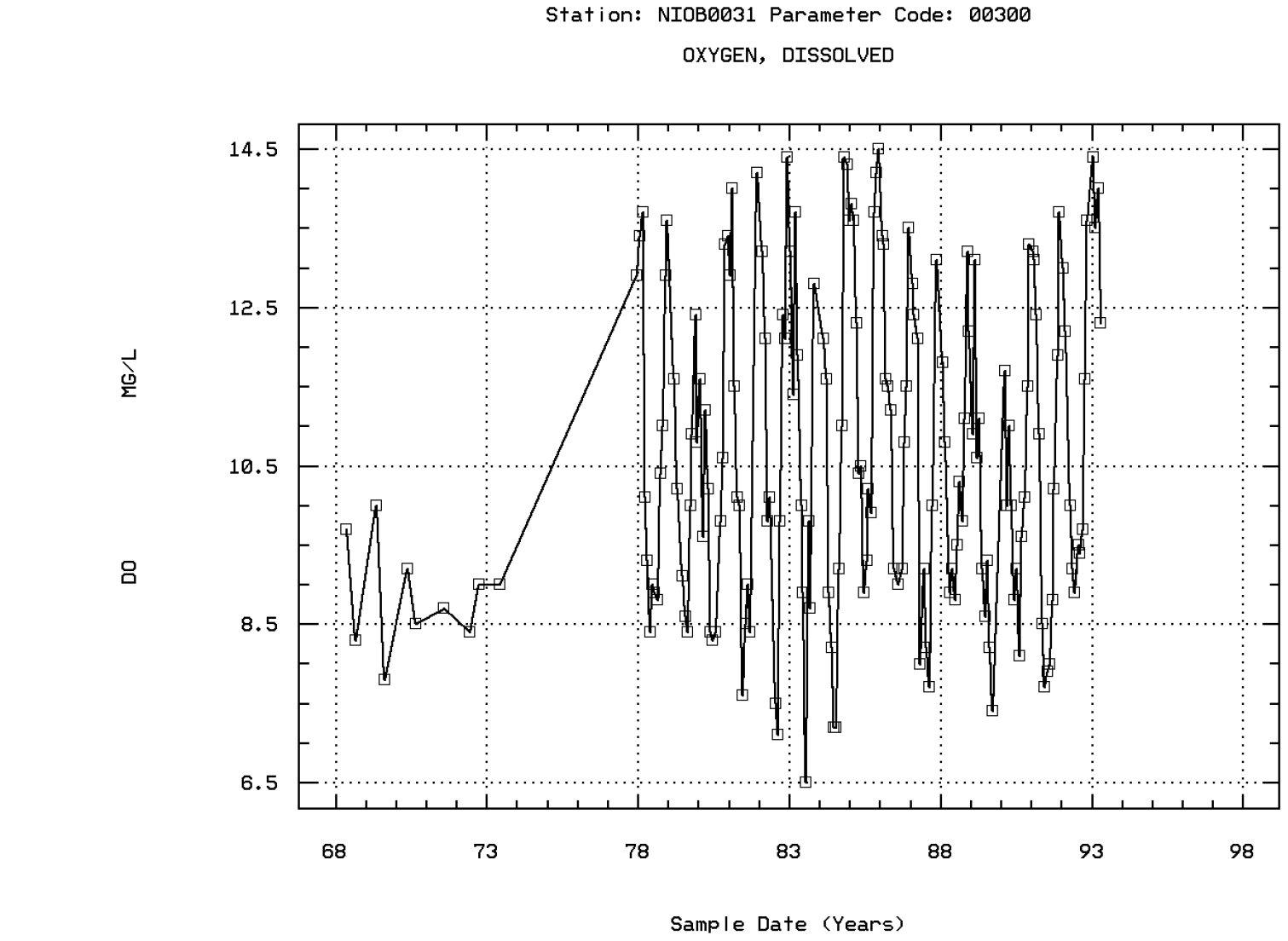
EPA Water Quality Criteria Analysis for Station: NIOB0031

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/01-1/14---------- Obs	Exceed	Prop.	----------1/15-3/09---------- Obs	Exceed	Prop.	----------3/10-7/31---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	11	1	0.09	6	1	0.17				5	0	0.00			
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Fresh Acute	4.	1	0	0.00							1	0	0.00			
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	173	0	0.00	71	0	0.00	27	0	0.00	75	0	0.00			
00400	PH	Other-Hi Lim.	9.	119	2	0.02	45	1	0.02	13	0	0.00	61	1	0.02			
		Other-Lo Lim.	6.5	119	0	0.00	45	0	0.00	13	0	0.00	61	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	103	0	0.00	42	0	0.00	20	0	0.00	41	0	0.00			
		Other-Lo Lim.	6.5	103	0	0.00	42	0	0.00	20	0	0.00	41	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	179	0	0.00	73	0	0.00	28	0	0.00	78	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	181	0	0.00	74	0	0.00	28	0	0.00	79	0	0.00			
		Drinking Water	250.	181	0	0.00	74	0	0.00	28	0	0.00	79	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	10	0	0.00	5	0	0.00				5	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	3	0	0.00	1	0	0.00				2	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	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	1	0	0.00				2	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						
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.	3	1	0.33	1	0	0.00				2	1	0.50			
		Drinking Water	5000.	3	0	0.00	1	0	0.00				2	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	171	38	0.22	69	13	0.19	28	9	0.32	74	16	0.22			
31648	E. COLI, MTEC, MF	Other	126.	28	6	0.21	12	3	0.25	4	0	0.00	12	3	0.25			

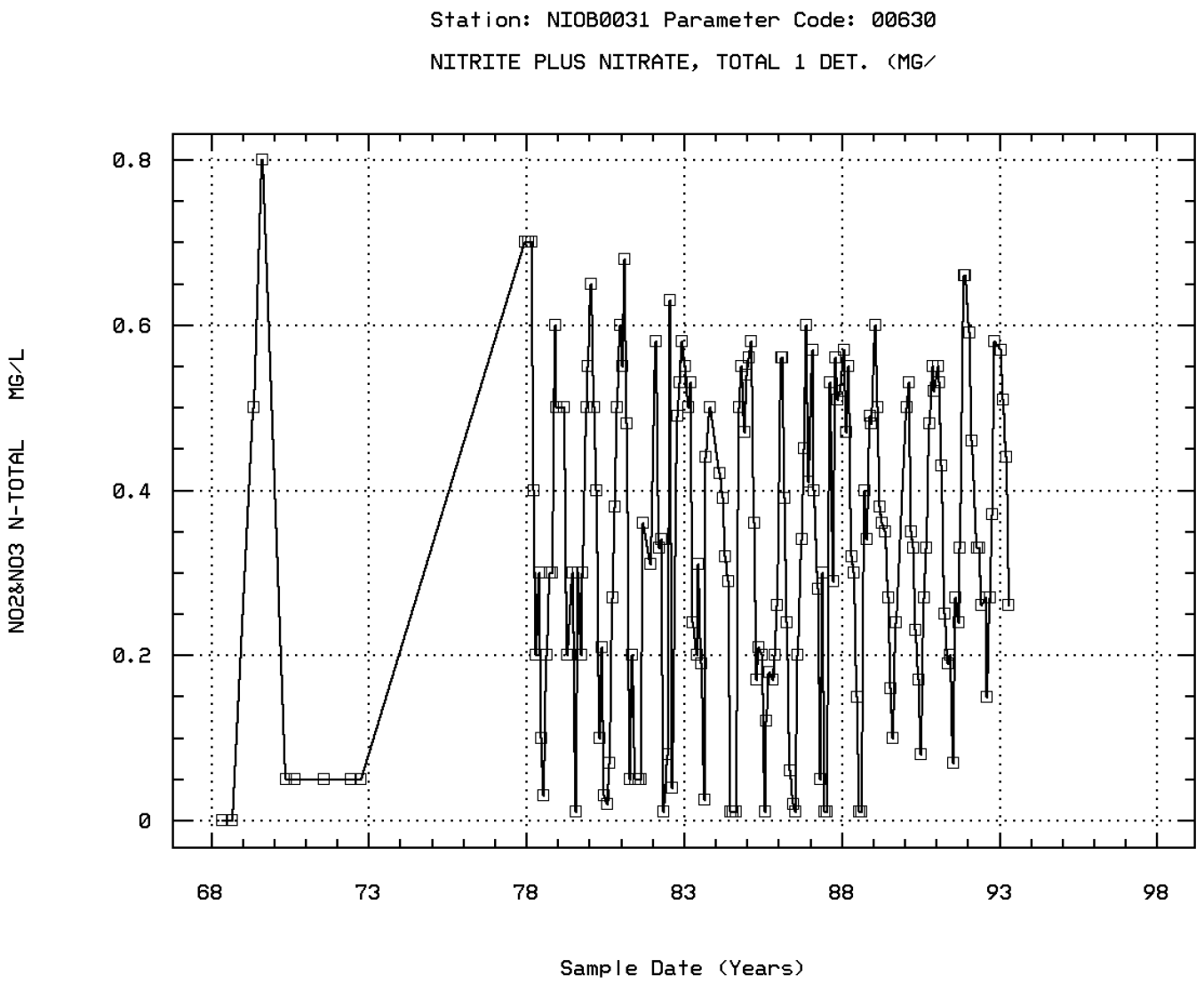
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter



NIOBRARA RIVER AT SPARKS



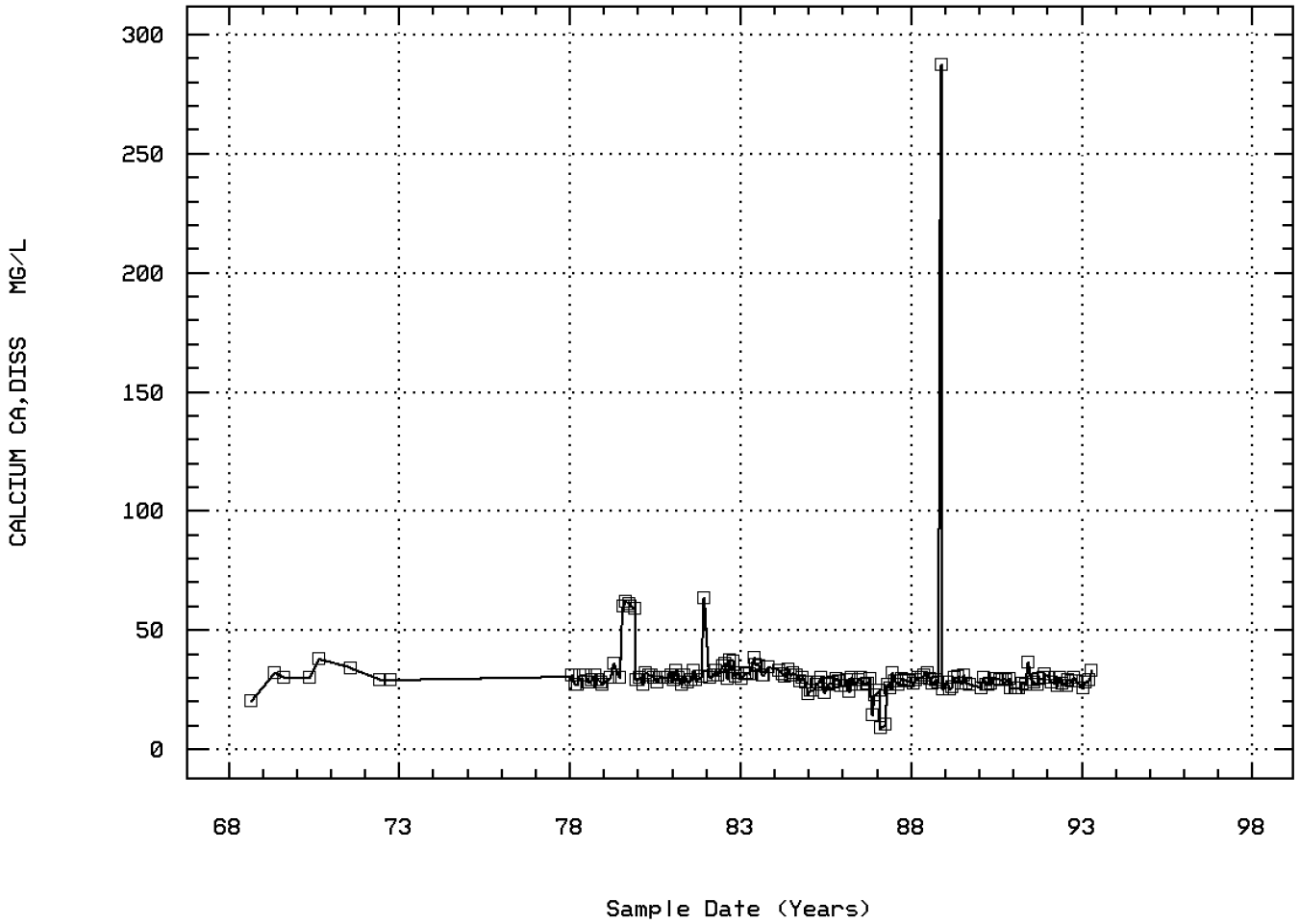
NIOBRARA RIVER AT SPARKS



NIOBRARA RIVER AT SPARKS

Station: NIOB0031 Parameter Code: 00915

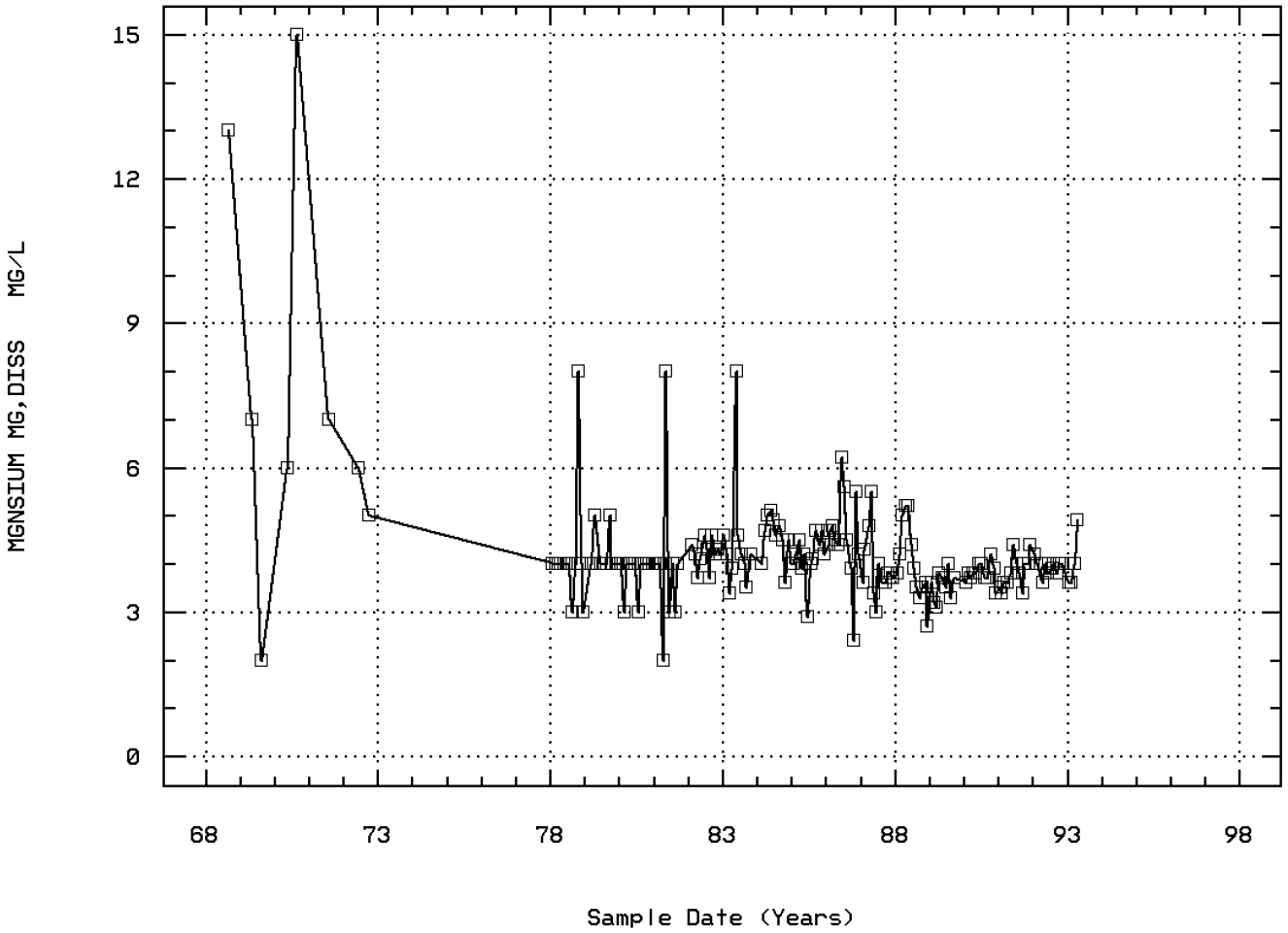
CALCIUM, DISSOLVED (MG/L AS CA)



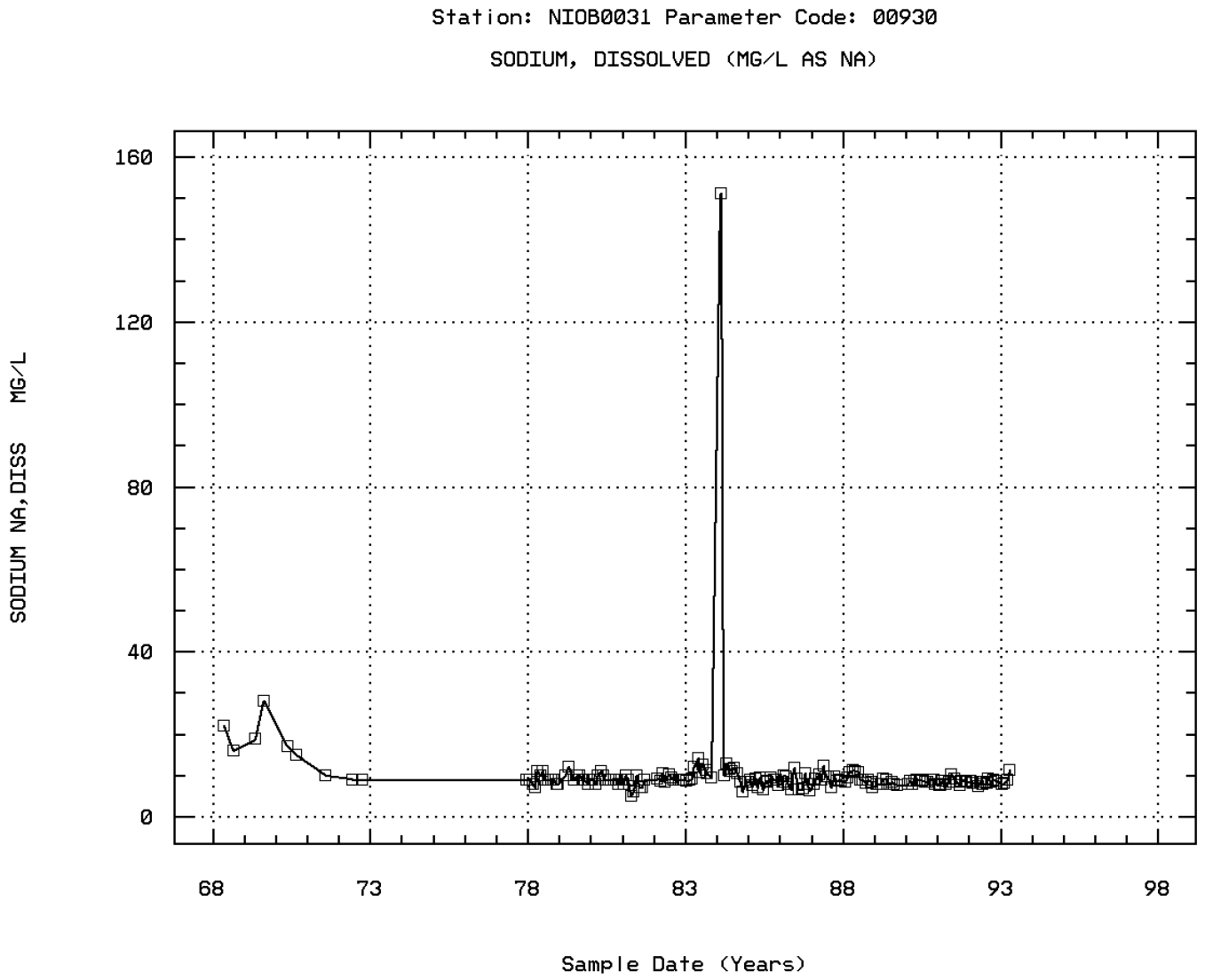
NIOBRARA RIVER AT SPARKS

Station: NIOB0031 Parameter Code: 00925

MAGNESIUM, DISSOLVED (MG/L AS MG)



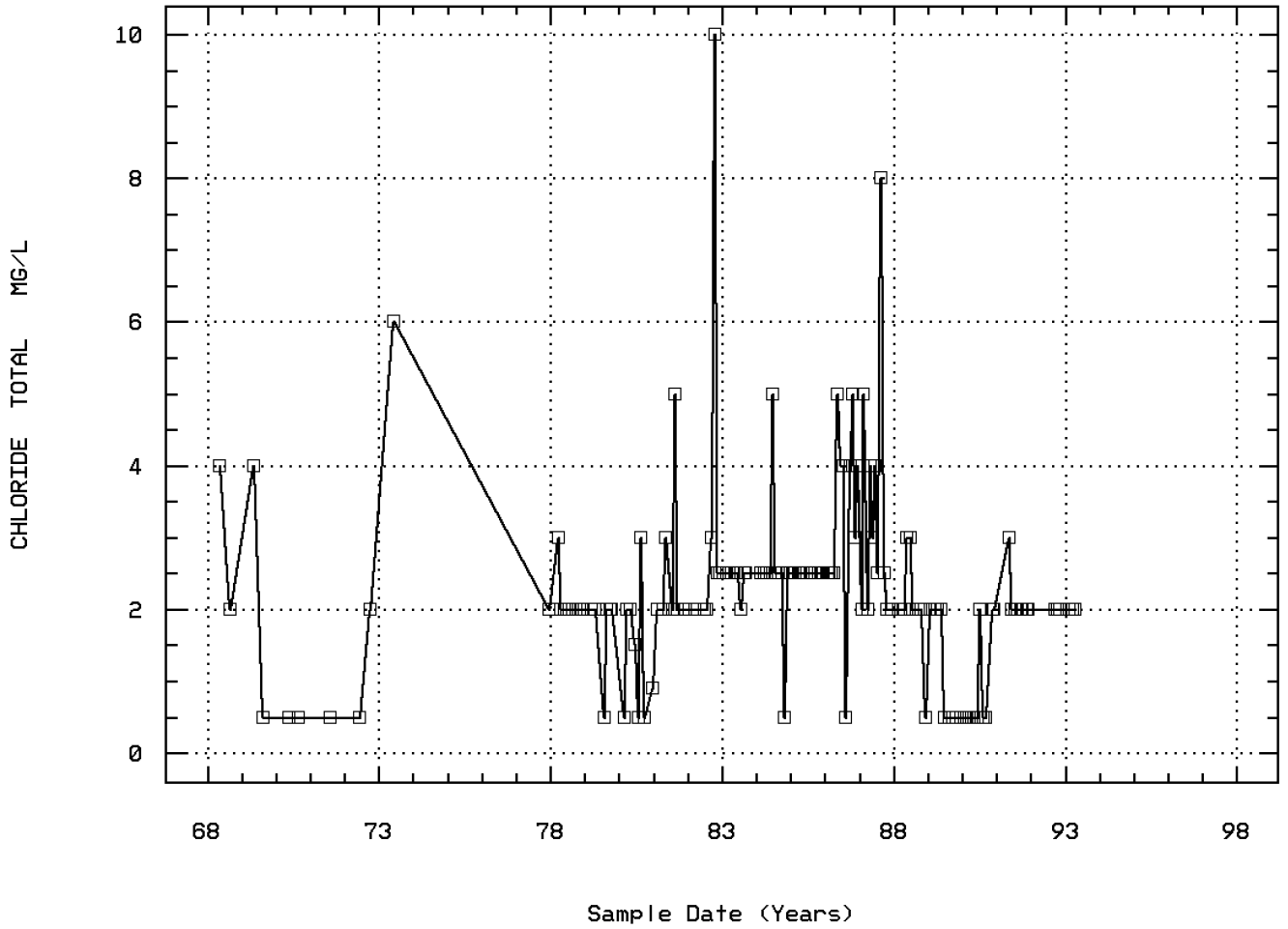
NIOBRARA RIVER AT SPARKS



NIOBRARA RIVER AT SPARKS

Station: NIOB0031 Parameter Code: 00940

CHLORIDE,TOTAL IN WATER



NIOBRARA RIVER AT SPARKS

Annual Analysis for 1968 - Station NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	2	16.5	16.5	18.	15.	4.5	2.121	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-04/10/89	2	1021.5	1021.5	1120.	923.	19404.5	139.3	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	2	230.	230.	240.	220.	200.	14.142	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	2	9.	9.	9.7	8.3	0.98	0.99	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-04/21/93	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-04/21/93	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-04/21/93	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-04/21/93	2	19.	19.	22.	16.	18.	4.243	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	2	3.	3.	4.	2.	2.	1.414	**	**	**	**

** - 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 1969 - Station NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	2	20.5	20.5	28.	13.	112.5	10.607	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-04/10/89	2	520.	520.	649.	391.	33282.	182.434	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	2	225.	225.	240.	210.	450.	21.213	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	2	8.9	8.9	10.	7.8	2.42	1.556	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	2	8.15	8.15	8.2	8.1	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	2	8.147	8.147	8.2	8.1	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	2	0.007	0.007	0.008	0.006	0.	0.001	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-04/21/93	2	0.65	0.65	0.8	0.5	0.045	0.212	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-04/21/93	2	31.	31.	32.	30.	2.	1.414	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-04/21/93	2	4.5	4.5	7.	2.	12.5	3.536	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-04/21/93	2	23.5	23.5	28.	19.	40.5	6.364	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	2 ##	2.25	2.25	4.	0.5	6.125	2.475	**	**	**	**

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Annual Analysis for 1970 - Station NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	2	19.25	19.25	19.5	19.	0.125	0.354	**	**	**	**
00057	FLOW, INDICATES IT HAS BEEN CHECKED	05/26/70-04/10/89	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-04/10/89	2	549.5	549.5	704.	395.	47740.5	218.496	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	2	227.5	227.5	230.	225.	12.5	3.536	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	2	8.85	8.85	9.2	8.5	0.245	0.495	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	2	8.15	8.15	8.7	7.6	0.605	0.778	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	2	7.868	7.868	8.7	7.6	0.764	0.874	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	2	0.014	0.014	0.025	0.002	0.	0.016	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-04/21/93	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-04/21/93	2	34.	34.	38.	30.	32.	5.657	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-04/21/93	2	10.5	10.5	15.	6.	40.5	6.364	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-04/21/93	2	16.	16.	17.	15.	2.	1.414	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	2 ##	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 box-and-whisker plot

Annual Analysis for 1971 - Station NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00057	FLOW, INDICATES IT HAS BEEN CHECKED	05/26/70-04/10/89	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-04/10/89	1	424.	424.	424.	424.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	1	220.	220.	220.	220.	0.	0.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-04/21/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-04/21/93	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-04/21/93	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-04/21/93	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	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 box-and-whisker plot

Annual Analysis for 1972 - Station NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	2	16.	16.	22.	10.	72.	8.485	**	**	**	**
00057	FLOW, INDICATES IT HAS BEEN CHECKED	05/26/70-04/10/89	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-04/10/89	2	764.	764.	834.	694.	9800.	98.995	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	2	210.	210.	220.	200.	200.	14.142	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	2	8.7	8.7	9.	8.4	0.18	0.424	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	2	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	2	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	2	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-04/21/93	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-04/21/93	2	29.	29.	29.	29.	0.	0.	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-04/21/93	2	5.5	5.5	6.	5.	0.5	0.707	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-04/21/93	2	9.	9.	9.	9.	0.	0.	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	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 box-and-whisker plot

Annual Analysis for 1973 - Station NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00057	FLOW, INDICATES IT HAS BEEN CHECKED	05/26/70-04/10/89	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-04/10/89	1	813.	813.	813.	813.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	1	220.	220.	220.	220.	0.	0.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	1	6.	6.	6.	6.	0.	0.	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			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 1977 - Station NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00057	FLOW, INDICATES IT HAS BEEN CHECKED	05/26/70-04/10/89	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-04/10/89	1	1070.	1070.	1070.	1070.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	1	220.	220.	220.	220.	0.	0.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	1	12.9	12.9	12.9	12.9	0.	0.	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	12/14/77-09/13/83	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	12/14/77-04/21/93	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-04/21/93	1	48.	48.	48.	48.	0.	0.	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-04/21/93	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-04/21/93	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-04/21/93	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	1	2.	2.	2.	2.	0.	0.	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	1	130.	130.	130.	130.	0.	0.	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	1	2.114	2.114	2.114	2.114	0.	0.	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			130.								

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Annual Analysis for 1978 - Station NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	12	7.	12.942	29.1	-1.	129.617	11.385	0.	2.575	22.625	28.53
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-04/10/89	12	693.5	776.	1610.	439.	110794.	332.857	442.9	550.5	960.	1463.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	12	207.5	210.833	240.	190.	226.515	15.05	191.5	201.25	225.	237.
00300p	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	12	10.25	10.792	13.7	8.4	4.27	2.066	8.52	8.925	13.275	13.67
00310	BOD, 5 DAY, 20 DEG C MG/L	12/14/77-09/13/83	12	2.65	2.708	4.8	1.3	1.219	1.104	1.3	1.775	3.55	4.59
00340	COD, .25N K2CR2O7 MG/L	12/14/77-04/21/93	11	5.	11.955	45.	1.	186.923	13.672	1.	2.5	24.	40.8
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	9	8.3	8.244	8.5	7.7	0.07	0.265	7.7	8.1	8.5	8.5
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	9	8.3	8.161	8.5	7.7	0.078	0.279	7.7	8.1	8.5	8.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	9	0.005	0.007	0.02	0.003	0.	0.005	0.003	0.003	0.008	0.02
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-04/21/93	12	39.5	56.417	151.	5.	1913.902	43.748	8.	28.25	94.25	138.4
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-04/21/93	12	0.1	0.076	0.1	0.03	0.001	0.033	0.03	0.033	0.1	0.1
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-04/21/93	12	0.3	0.361	0.7	0.03	0.05	0.223	0.051	0.2	0.575	0.7
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-04/21/93	12	29.	29.167	31.	27.	3.061	1.749	27.	27.25	31.	31.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-04/21/93	12	4.	4.167	8.	3.	1.606	1.267	3.	4.	4.	6.8
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-04/21/93	12	9.	9.	11.	7.	1.455	1.206	7.3	8.	9.75	11.
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	12	2.	1.75	3.	1.	0.386	0.622	1.	1.	2.	2.7
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	12	28.25	52.417	180.	2.5	3097.492	55.655	4.75	10.	88.25	163.5
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	12	1.442	1.45	2.255	0.398	0.307	0.554	0.579	1.	1.943	2.208
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			28.155								

** - 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 NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	9	15.5	14.	24.2	2.	72.277	8.502	2.	4.4	22.1	24.2
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-04/10/89	10	689.5	683.8	996.	462.	31692.622	178.024	462.8	486.5	815.5	985.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	9	210.	212.222	240.	195.	169.444	13.017	195.	202.5	217.5	240.
00300p	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	9	10.2	10.222	12.4	8.4	1.837	1.355	8.4	8.85	11.25	12.4
00310	BOD, 5 DAY, 20 DEG C MG/L	12/14/77-09/13/83	9	1.9	2.2	3.9	1.2	0.928	0.963	1.2	1.45	3.15	3.9
00340	COD, .25N K2CR2O7 MG/L	12/14/77-04/21/93	9	23.	23.	37.	10.	84.25	9.179	10.	14.	31.	37.

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Annual Analysis for 1979 - Station NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	9	8.	8.1	8.6	7.4	0.162	0.403	7.4	7.85	8.55	8.6
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	9	8.	7.936	8.6	7.4	0.193	0.439	7.4	7.85	8.55	8.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	9	0.01	0.012	0.04	0.003	0.	0.012	0.003	0.003	0.014	0.04
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-04/21/93	9	106.	116.667	300.	45.	6645.5	81.52	45.	53.5	154.5	300.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-04/21/93	9	0.04	0.063	0.2	0.01	0.004	0.061	0.01	0.025	0.1	0.2
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-04/21/93	9	0.3	0.318	0.55	0.01	0.03	0.175	0.01	0.2	0.5	0.55
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-04/21/93	9	59.	47.444	62.	29.	240.528	15.509	29.	30.	60.5	62.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-04/21/93	9	4.	4.222	5.	4.	0.194	0.441	4.	4.	4.5	5.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-04/21/93	9	9.	9.556	12.	8.	1.278	1.13	8.	9.	10.	12.
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	9	2.	1.5	2.	0.5	0.375	0.612	0.5	1.	2.	2.
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	9	250.	436.	1660.	2.5	308712.938	555.619	2.5	6.5	760.	1660.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	9	2.398	1.949	3.22	0.398	1.162	1.078	0.398	0.801	2.879	3.22
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			88.856								

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Annual Analysis for 1980 - Station NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	12	14.	13.917	29.	0.	116.992	10.816	0.3	3.25	23.5	28.7
00057	FLOW, INDICATES IT HAS BEEN CHECKED	05/26/70-04/10/89	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-04/10/89	12	672.5	663.833	1100.	377.	43344.333	208.193	386.9	475.	796.75	1028.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	12	214.	198.917	245.	4.	4029.174	63.476	59.8	195.	230.	240.5
00300p	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	11	10.2	10.436	13.4	8.3	3.297	1.816	8.32	8.4	11.6	13.38
00310	BOD, 5 DAY, 20 DEG C MG/L	12/14/77-09/13/83	12	2.45	2.292	4.5	0.2	1.332	1.154	0.35	1.45	2.9	4.11
00340	COD, .25N K2CR2O7 MG/L	12/14/77-04/21/93	12	23.	26.833	81.	1.	399.061	19.977	3.7	18.	31.	69.3
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	12	8.15	8.142	8.6	7.4	0.088	0.297	7.58	8.	8.3	8.54
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	12	8.147	8.024	8.6	7.4	0.103	0.321	7.58	8.	8.3	8.54
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	12	0.007	0.009	0.04	0.003	0.	0.01	0.003	0.005	0.01	0.031
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-04/21/93	12	55.	56.833	123.	9.	1241.424	35.234	12.6	25.25	80.75	114.6
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-04/21/93	12	0.02	0.032	0.12	0.01	0.001	0.032	0.01	0.01	0.038	0.102
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-04/21/93	12	0.325	0.311	0.65	0.02	0.051	0.226	0.023	0.078	0.5	0.635
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/80-04/21/93	8	0.05	0.079	0.18	0.02	0.004	0.062	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-04/21/93	12	30.	30.	32.	27.	1.818	1.348	27.3	30.	31.	31.7
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-04/21/93	12	4.	3.833	4.	3.	0.152	0.389	3.	4.	4.	4.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-04/21/93	12	9.	9.167	11.	8.	0.697	0.835	8.	9.	9.75	10.7
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	12	1.	1.242	3.	0.5	0.574	0.757	0.5	0.6	1.875	2.7
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	12 ##	23.75	145.375	940.	0.5	71576.006	267.537	1.1	9.25	201.625	743.8
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	12 ##	1.37	1.483	2.973	-0.301	0.86	0.927	-0.091	0.962	2.288	2.818
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			30.421								

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Annual Analysis for 1981 - Station NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	10	12.	12.6	26.5	0.	90.711	9.524	0.15	2.625	23.5	26.2
00057	FLOW, INDICATES IT HAS BEEN CHECKED	05/26/70-04/10/89	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-04/10/89	11	718.	734.818	1140.	454.	30891.964	175.761	475.	646.	808.	1080.4
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	10	237.5	226.2	260.	187.	686.622	26.203	187.3	197.5	246.25	259.
00300p	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	10	10.05	10.62	14.2	7.6	5.782	2.405	7.68	8.475	13.175	14.18
00340	COD, .25N K2CR2O7 MG/L	12/14/77-04/21/93	9 ##	1.5	9.056	23.	1.5	90.403	9.508	1.5	1.5	18.5	23.
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	10	8.2	8.18	8.5	7.5	0.088	0.297	7.55	8.075	8.425	8.5
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	10	8.189	8.067	8.5	7.5	0.103	0.321	7.55	8.075	8.425	8.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	10	0.006	0.009	0.032	0.003	0.	0.008	0.003	0.004	0.008	0.029

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Annual Analysis for 1981 - Station NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-04/21/93	9	34.	44.556	174.	10.	2483.278	49.832	10.	18.5	41.	174.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-04/21/93	10	0.03	0.031	0.07	0.015	0.	0.018	0.015	0.015	0.04	0.067
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-04/21/93	10	0.255	0.278	0.68	0.05	0.055	0.235	0.05	0.05	0.498	0.667
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/80-04/21/93	10	0.035	0.042	0.1	0.01	0.001	0.03	0.01	0.018	0.065	0.098
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/22/81-11/04/92	2 ##	1.8	1.8	2.1	1.5	0.18	0.424	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-04/21/93	11	30.	32.991	63.6	27.	106.565	10.323	27.2	29.	33.	57.48
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-04/21/93	9	4.	4.	8.	2.	2.75	1.658	2.	3.	4.	8.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-04/21/93	9	8.	7.889	10.	5.	3.111	1.764	5.	6.5	9.5	10.
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	10	2.	2.1	5.	1.	1.433	1.197	1.	1.	2.25	4.8
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	10 ##	5.75	27.05	140.	0.	1998.747	44.707	0.	0.	45.5	132.2
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	10 ##	0.756	0.873	2.146	0.	0.61	0.781	0.	0.	1.65	2.111
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			7.459								

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Annual Analysis for 1982 - Station NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	10	4.5	10.6	25.	-2.	86.1	9.279	0.4	5.5	19.75	24.85
00057	FLOW, INDICATES IT HAS BEEN CHECKED	05/26/70-04/10/89	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-04/10/89	11	647.	660.364	840.	466.	17218.455	131.219	471.4	540.	801.	838.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	11	230.	235.636	378.	173.	2597.255	50.963	179.8	216.	239.	351.
00300p	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	10	11.1	10.85	14.4	7.1	5.745	2.397	7.14	9.225	12.6	14.28
00310	BOD, 5 DAY, 20 DEG C MG/L	12/14/77-09/13/83	10	1.35	1.28	2.6	0.2	0.675	0.822	0.2	0.5	1.9	2.56
00340	COD, .25N K2CR2O7 MG/L	12/14/77-04/21/93	8	75.	88.875	178.	24.	3188.125	56.463	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	11	8.4	8.309	9.	6.9	0.299	0.547	7.1	8.2	8.5	8.96
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	11	8.4	7.812	9.	6.9	0.571	0.756	7.1	8.2	8.5	8.96
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	11	0.004	0.015	0.126	0.001	0.001	0.037	0.001	0.003	0.006	0.103
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-04/21/93	11	45.	66.545	231.	17.	3720.073	60.992	18.2	26.	89.	206.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-04/21/93	11	0.04	0.052	0.2	0.01	0.003	0.057	0.01	0.02	0.06	0.182
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-04/21/93	10	0.415	0.361	0.63	0.01	0.058	0.24	0.013	0.07	0.58	0.625
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/80-04/21/93	11	0.06	0.095	0.36	0.01	0.01	0.1	0.014	0.04	0.13	0.324
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/22/81-11/04/92	10	2.95	3.1	4.9	2.	0.762	0.873	2.03	2.45	3.45	4.83
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-04/21/93	11	32.	32.945	37.3	29.7	7.951	2.82	29.8	30.6	36.	37.2
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-04/21/93	11	4.2	4.209	4.6	3.7	0.089	0.298	3.7	4.1	4.4	4.6
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-04/21/93	11	9.	9.174	10.44	8.5	0.365	0.604	8.54	8.8	9.45	10.378
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	11	2.	2.545	10.	1.	6.623	2.573	1.	1.	2.5	8.6
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	11	70.	128.818	400.	31.	14538.164	120.574	31.4	33.	230.	372.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	11	1.845	1.939	2.602	1.491	0.166	0.407	1.497	1.519	2.362	2.565
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			86.818								

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Annual Analysis for 1983 - Station NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	10	12.75	13.6	30.	0.	99.544	9.977	0.3	3.75	21.125	29.6
00057	FLOW, INDICATES IT HAS BEEN CHECKED	05/26/70-04/10/89	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-04/10/89	10	822.	760.6	1060.	498.	35066.489	187.26	499.2	582.75	888.25	1047.1
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	10	238.5	244.5	301.	214.	923.389	30.387	214.	217.	275.	298.4
00300p	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	10	10.7	10.69	13.7	6.5	5.308	2.304	6.72	8.85	12.9	13.65
00310	BOD, 5 DAY, 20 DEG C MG/L	12/14/77-09/13/83	9	1.2	1.467	3.5	0.7	0.763	0.873	0.7	0.85	1.8	3.5
00340	COD, .25N K2CR2O7 MG/L	12/14/77-04/21/93	5	31.	63.8	176.	20.	4182.2	64.67	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	7	8.2	8.229	8.6	7.7	0.109	0.33	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	7	8.2	8.119	8.6	7.7	0.123	0.351	**	**	**	**

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Annual Analysis for 1983 - Station NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	7	0.006	0.008	0.02	0.003	0.	0.006	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	09/13/83-04/21/93	2	7.85	7.85	8.	7.7	0.045	0.212	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	09/13/83-04/21/93	2	7.825	7.825	8.	7.7	0.046	0.215	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/13/83-04/21/93	2	0.015	0.015	0.02	0.01	0.	0.007	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-04/21/93	10	44.	65.5	180.	14.	2646.278	51.442	14.7	29.25	95.25	172.8
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-04/21/93	10	0.03	0.038	0.16	0.01	0.002	0.044	0.01	0.01	0.04	0.148
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-04/21/93	10	0.375	0.349	0.55	0.025	0.033	0.18	0.042	0.198	0.508	0.548
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/80-04/21/93	10	0.085	0.13	0.41	0.05	0.012	0.11	0.05	0.065	0.158	0.39
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/22/81-11/04/92	10	3.8	4.48	9.2	1.9	5.926	2.434	1.95	2.625	6.025	9.04
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-04/21/93	10	31.7	32.93	38.1	29.6	6.842	2.616	29.74	31.15	35.05	37.81
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-04/21/93	10	4.2	4.46	8.	3.4	1.705	1.306	3.41	3.8	4.6	7.66
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-04/21/93	10	10.6	10.75	14.2	8.7	3.272	1.809	8.72	9.05	12.2	14.03
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	10 ##	2.5	2.15	2.5	1.	0.392	0.626	1.	1.75	2.5	2.5
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	10	155.	334.8	970.	20.	129083.733	359.282	23.8	59.5	772.5	951.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	10	2.19	2.246	2.987	1.301	0.312	0.558	1.347	1.774	2.888	2.977
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			176.236								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/25/83-04/21/93	1	70.	70.	70.	70.	0.	0.	**	**	**	**
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/25/83-04/21/93	1	1.845	1.845	1.845	1.845	0.	0.	**	**	**	**
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			70.								

** - 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 NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	11	8.	12.364	27.	0.	112.105	10.588	0.2	3.	25.	26.8
00057	FLOW, INDICATES IT HAS BEEN CHECKED	05/26/70-04/10/89	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-04/10/89	11	709.	754.727	1080.	437.	52094.218	228.242	445.8	554.	904.	1080.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	11	227.	242.	420.	194.	3793.6	61.592	196.2	210.	248.	386.2
00300p	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	11	11.	10.7	14.4	7.2	7.416	2.723	7.2	8.2	13.6	14.38
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	6	8.25	8.383	9.3	8.	0.222	0.471	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	6	8.247	8.25	9.3	8.	0.243	0.493	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	6	0.006	0.006	0.01	0.001	0.	0.003	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	09/13/83-04/21/93	11	8.2	8.182	8.7	7.6	0.096	0.309	7.66	7.9	8.4	8.66
00403	CONVERTED PH, LAB, STANDARD UNITS	09/13/83-04/21/93	11	8.2	8.079	8.7	7.6	0.107	0.327	7.66	7.9	8.4	8.66
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/13/83-04/21/93	11	0.006	0.008	0.025	0.002	0.	0.007	0.002	0.004	0.013	0.023
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-04/21/93	11	46.	71.273	216.	10.	4468.418	66.846	11.6	34.	128.	205.4
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-04/21/93	11 ##	0.01	0.031	0.2	0.01	0.003	0.057	0.01	0.01	0.02	0.168
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-04/21/93	11	0.39	0.319	0.55	0.01	0.046	0.215	0.01	0.01	0.5	0.548
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/80-04/21/93	11	0.11	0.141	0.34	0.07	0.006	0.075	0.074	0.1	0.17	0.31
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/22/81-11/04/92	11	4.	3.782	5.2	2.	1.004	1.002	2.04	3.1	4.5	5.12
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-04/21/93	11	30.8	30.209	33.6	23.3	7.915	2.813	24.24	28.7	32.2	33.42
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-04/21/93	11	4.6	4.518	5.1	3.6	0.222	0.471	3.68	4.	4.9	5.08
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-04/21/93	11	10.5	22.739	151.	6.	1813.333	42.583	6.5	8.5	11.7	123.38
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	11 ##	2.5	2.545	5.	0.5	1.023	1.011	0.9	2.5	2.5	4.5
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	11	200.	185.636	390.	10.	13595.255	116.599	14.2	105.	270.	376.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	11	2.301	2.118	2.591	1.	0.227	0.476	1.098	2.021	2.431	2.574
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			131.229								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/25/83-04/21/93	11	290.	548.818	2600.	67.	509177.364	713.567	85.6	220.	530.	2254.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/25/83-04/21/93	11	2.462	2.538	3.415	1.826	0.167	0.408	1.902	2.342	2.724	3.32
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			345.324								

** - 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 NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	12	13.	11.875	27.	0.	90.051	9.49	0.	0.875	20.25	25.8
00057	FLOW, INDICATES IT HAS BEEN CHECKED	05/26/70-04/10/89	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-04/10/89	12	618.5	677.167	988.	458.	37277.061	193.073	461.6	486.5	870.	979.6
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	12	226.	226.083	240.	200.	106.992	10.344	206.	223.25	230.	240.
00300p	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	12	11.4	11.775	14.5	8.9	4.42	2.102	9.02	9.975	13.775	14.41
00340	COD, .25N K2CR2O7 MG/L	12/14/77-04/21/93	10	10.5	25.2	132.	2.5	1618.956	40.236	2.5	2.5	31.	123.7
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	4	8.	8.025	8.3	7.8	0.069	0.263	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	4	7.955	7.968	8.3	7.8	0.073	0.271	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	4	0.011	0.011	0.016	0.005	0.	0.006	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	09/13/83-04/21/93	12	8.2	8.142	8.8	7.5	0.179	0.423	7.5	7.825	8.475	8.77
00403	CONVERTED PH, LAB, STANDARD UNITS	09/13/83-04/21/93	12	8.2	7.961	8.8	7.5	0.215	0.463	7.5	7.825	8.475	8.77
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/13/83-04/21/93	12	0.006	0.011	0.032	0.002	0.	0.011	0.002	0.003	0.015	0.032
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-04/21/93	12	37.	49.667	124.	2.	1350.424	36.748	9.2	30.	58.	122.8
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-04/21/93	11	0.03	0.032	0.05	0.01	0.	0.013	0.01	0.03	0.04	0.048
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-04/21/93	12	0.2	0.252	0.58	0.01	0.029	0.169	0.043	0.17	0.335	0.574
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/80-04/21/93	12	0.1	0.103	0.18	0.01	0.003	0.052	0.019	0.07	0.148	0.174
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/22/81-11/04/92	11	2.8	3.173	5.2	2.	1.182	1.087	2.	2.2	4.	5.1
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-04/21/93	12	27.15	27.017	29.8	23.6	3.772	1.942	23.87	25.125	28.275	29.68
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-04/21/93	12	4.2	4.15	4.7	2.9	0.225	0.474	3.2	4.	4.475	4.7
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-04/21/93	12	8.8	8.417	9.5	6.6	0.971	0.985	6.75	7.5	9.15	9.5
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	12 ##	2.5	2.5	2.5	2.5	0.	0.	2.5	2.5	2.5	2.5
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	12	73.	96.083	240.	15.	5899.174	76.806	16.5	30.75	159.	234.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	12	1.863	1.836	2.38	1.176	0.156	0.395	1.214	1.486	2.192	2.369
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			68.592								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/25/83-04/21/93	12	46.5	68.167	205.	10.	3109.788	55.765	14.2	29.5	88.5	185.5
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/25/83-04/21/93	12	1.667	1.708	2.312	1.	0.127	0.356	1.114	1.462	1.947	2.262
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			51.029								

** - 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 1986 - Station NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	12	12.	11.167	25.	0.	77.424	8.799	0.3	2.	19.5	24.1
00057	FLOW, INDICATES IT HAS BEEN CHECKED	05/26/70-04/10/89	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-04/10/89	12	868.	828.917	1250.	478.	48770.629	220.841	496.9	628.25	962.75	1181.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	12	245.	244.583	271.	220.	265.174	16.284	220.3	234.	253.	271.
00300p	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	11	11.5	11.291	13.5	9.	2.779	1.667	9.04	9.2	13.3	13.48
00340	COD, .25N K2CR2O7 MG/L	12/14/77-04/21/93	5	18.	16.4	23.	5.	45.8	6.768	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	12	8.35	8.213	8.9	7.36	0.238	0.488	7.372	7.825	8.55	8.84
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	12	8.347	7.937	8.9	7.36	0.322	0.567	7.372	7.825	8.55	8.84
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	12	0.004	0.012	0.044	0.001	0.	0.015	0.001	0.003	0.017	0.042
00403	PH, LAB, STANDARD UNITS SU	09/13/83-04/21/93	9	8.6	8.444	8.8	7.9	0.123	0.35	7.9	8.1	8.75	8.8
00403	CONVERTED PH, LAB, STANDARD UNITS	09/13/83-04/21/93	9	8.6	8.315	8.8	7.9	0.142	0.376	7.9	8.1	8.75	8.8
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/13/83-04/21/93	9	0.003	0.005	0.013	0.002	0.	0.004	0.002	0.002	0.008	0.013
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-04/21/93	12	49.	64.5	158.	18.	1678.273	40.967	22.8	35.5	87.75	144.8
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-04/21/93	12	0.02	0.048	0.24	0.01	0.004	0.065	0.01	0.01	0.055	0.195
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-04/21/93	12	0.365	0.32	0.6	0.01	0.045	0.213	0.013	0.095	0.533	0.588
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/80-04/21/93	12	0.135	0.145	0.24	0.06	0.002	0.048	0.075	0.11	0.185	0.225
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/22/81-11/04/92	11	4.6	4.418	7.4	2.	3.134	1.77	2.06	2.9	5.7	7.26
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-04/21/93	12	27.1	26.383	30.2	14.2	20.218	4.496	16.78	24.575	29.425	30.2
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-04/21/93	12	4.5	4.592	6.2	2.4	0.91	0.954	2.85	4.25	5.325	6.02
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-04/21/93	12	8.25	8.483	11.9	6.4	3.14	1.772	6.43	6.675	9.825	11.48
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	12	3.5	3.292	5.	0.5	1.657	1.287	1.1	2.5	4.	5.
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	11	200.	286.	1030.	7.	101774.4	319.021	7.2	22.	500.	940.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	11	2.301	2.036	3.013	0.845	0.602	0.776	0.857	1.342	2.699	2.963
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			108.735								

** - 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 1986 - Station NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/25/83-04/21/93	11	82.	81.909	158.	5.	2597.491	50.966	12.	40.	140.	156.4
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/25/83-04/21/93	11	1.914	1.787	2.199	0.699	0.182	0.426	0.88	1.602	2.146	2.194
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			61.17								

** - 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 NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	12	10.5	12.	28.	0.	108.182	10.401	0.	2.5	21.75	27.4
00057	FLOW, INDICATES IT HAS BEEN CHECKED	05/26/70-04/10/89	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-04/10/89	12	797.5	758.25	1150.	528.	44649.295	211.304	529.8	545.75	896.25	1108.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	12	230.	231.25	254.	217.	149.114	12.211	217.3	221.75	234.75	254.
00300p	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	9	10.	10.389	13.1	7.7	4.929	2.22	7.7	8.1	12.6	13.1
00340	COD, .25N K2CR2O7 MG/L	12/14/77-04/21/93	9	9.	19.278	56.	2.5	346.819	18.623	2.5	7.5	35.5	56.
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	10	8.35	8.31	8.7	8.	0.057	0.238	8.	8.075	8.45	8.69
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	10	8.347	8.254	8.7	8.	0.06	0.245	8.	8.075	8.45	8.69
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	10	0.004	0.006	0.01	0.002	0.	0.003	0.002	0.004	0.008	0.01
00403	PH, LAB, STANDARD UNITS SU	09/13/83-04/21/93	10	8.1	8.14	8.8	7.8	0.083	0.288	7.81	7.9	8.3	8.75
00403	CONVERTED PH, LAB, STANDARD UNITS	09/13/83-04/21/93	10	8.1	8.071	8.8	7.8	0.088	0.296	7.81	7.9	8.3	8.75
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/13/83-04/21/93	10	0.008	0.008	0.016	0.002	0.	0.004	0.002	0.005	0.013	0.016
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-04/21/93	12	47.5	92.167	610.	16.	26913.242	164.053	16.9	33.25	60.5	450.4
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-04/21/93	12	0.025	0.041	0.14	0.01	0.002	0.04	0.01	0.013	0.05	0.128
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-04/21/93	12	0.35	0.336	0.57	0.01	0.047	0.216	0.01	0.108	0.528	0.567
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/80-04/21/93	12	0.13	0.14	0.22	0.1	0.001	0.037	0.1	0.105	0.16	0.211
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/22/81-11/04/92	12	2.65	2.925	5.	1.2	1.355	1.164	1.41	1.925	4.025	4.76
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-04/21/93	12	27.75	24.942	31.7	9.	54.55	7.386	9.39	24.85	28.925	31.07
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-04/21/93	12	3.75	3.925	5.5	3.	0.448	0.669	3.12	3.6	4.225	5.29
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-04/21/93	12	9.15	9.258	12.3	7.2	1.626	1.275	7.41	8.6	9.775	11.67
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	12	2.5	3.167	8.	1.	3.561	1.887	1.3	2.	4.	7.1
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	12	51.	119.917	620.	7.	30868.083	175.693	7.9	19.75	145.75	518.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	12	1.706	1.737	2.792	0.845	0.334	0.578	0.892	1.236	2.147	2.689
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			54.592								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/25/83-04/21/93	11	71.	84.182	253.	15.	4880.364	69.86	17.8	35.	100.	235.8
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/25/83-04/21/93	11	1.851	1.802	2.403	1.176	0.121	0.348	1.233	1.544	2.	2.367
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			63.388								

** - 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 box-and-whisker plot

Annual Analysis for 1988 - Station NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	12	12.5	12.333	30.	0.	145.333	12.055	0.	0.	25.25	29.7
00057	FLOW, INDICATES IT HAS BEEN CHECKED	05/26/70-04/10/89	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-04/10/89	12	745.	799.083	1450.	501.	70447.538	265.42	504.	632.25	934.75	1333.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	12	211.5	219.417	250.	201.	337.174	18.362	201.	203.5	241.	247.3
00300p	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	11	10.3	10.509	13.2	8.8	2.099	1.449	8.82	9.2	11.8	13.
00340	COD, .25N K2CR2O7 MG/L	12/14/77-04/21/93	12	17.5	22.042	48.	2.5	188.021	13.712	4.15	11.5	33.	45.3
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	11	8.2	8.291	8.9	7.8	0.133	0.365	7.82	8.	8.5	8.9
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	11	8.2	8.174	8.9	7.8	0.148	0.385	7.82	8.	8.5	8.9
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	11	0.006	0.007	0.016	0.001	0.	0.005	0.001	0.003	0.01	0.015
00403	PH, LAB, STANDARD UNITS SU	09/13/83-04/21/93	12	8.05	8.258	8.9	7.8	0.183	0.427	7.8	8.	8.8	8.9
00403	CONVERTED PH, LAB, STANDARD UNITS	09/13/83-04/21/93	12	8.047	8.111	8.9	7.8	0.206	0.454	7.8	8.	8.8	8.9
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/13/83-04/21/93	12	0.009	0.008	0.016	0.001	0.	0.005	0.001	0.002	0.01	0.016
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-04/21/93	12	41.	48.	112.	17.	733.455	27.082	20.	28.	68.5	99.7

** - 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 NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-04/21/93	12	0.03	0.038	0.12	0.01	0.001	0.032	0.01	0.013	0.048	0.105
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-04/21/93	12	0.37	0.341	0.57	0.01	0.038	0.194	0.01	0.188	0.488	0.564
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/80-04/21/93	12	0.15	0.163	0.28	0.1	0.003	0.052	0.103	0.115	0.2	0.256
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/22/81-11/04/92	12	3.5	3.725	6.6	2.2	1.553	1.246	2.29	2.625	4.575	6.12
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-04/21/93	12	29.25	50.475	287.	25.3	5551.402	74.508	25.96	27.6	30.65	210.56
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-04/21/93	12	3.85	4.025	5.2	2.7	0.633	0.796	2.88	3.5	4.85	5.2
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-04/21/93	12	8.95	9.333	11.4	7.1	1.853	1.361	7.4	8.325	10.8	11.28
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	12	2.	1.792	3.	0.5	0.612	0.782	0.65	1.	2.	3.
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	12	62.5	99.	395.	10.	13654.	116.85	10.9	16.75	128.75	354.5
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	12	1.796	1.736	2.597	1.	0.26	0.51	1.034	1.209	2.104	2.542
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			54.511								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/25/83-04/21/93	12	52.5	59.083	173.	10.	1923.902	43.862	10.9	30.25	82.5	147.2
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/25/83-04/21/93	12	1.72	1.658	2.238	1.	0.122	0.349	1.034	1.481	1.916	2.148
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			45.511								

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Annual Analysis for 1989 - Station NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	9	18.	15.444	28.	0.	98.278	9.914	0.	7.	24.	28.
00057	FLOW, INDICATES IT HAS BEEN CHECKED	05/26/70-04/10/89	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-04/10/89	4	879.	1228.	2450.	704.	678408.	823.655	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	9	226.	220.222	240.	193.	288.444	16.984	193.	205.	237.	240.
00300p	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	9	9.3	9.822	13.1	7.4	3.099	1.761	7.4	8.4	11.	13.1
00340	COD, .25N K2CR2O7 MG/L	12/14/77-04/21/93	9	14.	13.333	28.	4.	54.75	7.399	4.	6.5	17.	28.
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	8	8.1	8.	8.2	7.4	0.077	0.278	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	8	8.1	7.901	8.2	7.4	0.088	0.297	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	8	0.008	0.013	0.04	0.006	0.	0.011	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	09/13/83-04/21/93	9	8.3	8.222	8.7	7.7	0.112	0.335	7.7	7.95	8.5	8.7
00403	CONVERTED PH, LAB, STANDARD UNITS	09/13/83-04/21/93	9	8.3	8.11	8.7	7.7	0.126	0.355	7.7	7.95	8.5	8.7
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/13/83-04/21/93	9	0.005	0.008	0.02	0.002	0.	0.006	0.002	0.003	0.011	0.02
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-04/21/93	9	43.	52.667	113.	22.	910.75	30.179	22.	29.5	76.5	113.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-04/21/93	9 ##	0.01	0.013	0.04	0.01	0.	0.01	0.01	0.01	0.01	0.04
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-04/21/93	9	0.35	0.329	0.6	0.1	0.025	0.158	0.1	0.2	0.44	0.6
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/80-04/21/93	9	0.11	0.124	0.22	0.09	0.002	0.039	0.09	0.1	0.135	0.22
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/22/81-11/04/92	9	2.4	2.567	3.9	1.8	0.365	0.604	1.8	2.2	2.85	3.9
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-04/21/93	9	27.4	28.056	31.1	24.9	4.443	2.108	24.9	26.6	30.35	31.1
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-04/21/93	9	3.6	3.544	4.	3.1	0.088	0.296	3.1	3.25	3.75	4.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-04/21/93	9	8.	8.217	9.3	7.6	0.336	0.58	7.6	7.85	8.725	9.3
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	9	1.	1.278	2.	0.5	0.507	0.712	0.5	0.5	2.	2.
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	9	50.	145.	780.	7.	60867.25	246.713	7.	15.	166.5	780.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	9	1.699	1.718	2.892	0.845	0.434	0.659	0.845	1.151	2.212	2.892
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			52.254								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/25/83-04/21/93	9	65.	79.556	247.	10.	5991.028	77.402	10.	23.5	120.5	247.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/25/83-04/21/93	9	1.813	1.716	2.393	1.	0.195	0.441	1.	1.366	2.056	2.393
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			52.025								

** - 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 1990 - Station NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	12	6.	8.667	21.	0.	56.242	7.499	0.3	2.25	17.	20.1
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	12	229.	225.083	260.	181.	431.902	20.782	189.7	210.75	236.	257.

** - 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 1990 - Station NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00300p	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	11	10.	10.3	13.3	8.1	2.19	1.48	8.24	9.2	11.5	12.98
00340	COD, .25N K2CR2O7 MG/L	12/14/77-04/21/93	12	14.	12.083	23.	4.	35.538	5.961	4.	5.	15.75	21.2
00403	PH, LAB, STANDARD UNITS SU	09/13/83-04/21/93	12	7.65	7.567	7.9	7.1	0.068	0.261	7.16	7.3	7.8	7.87
00403	CONVERTED PH, LAB, STANDARD UNITS	09/13/83-04/21/93	12	7.647	7.492	7.9	7.1	0.074	0.272	7.16	7.3	7.8	7.87
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/13/83-04/21/93	12	0.023	0.032	0.079	0.013	0.	0.021	0.014	0.016	0.05	0.071
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-04/21/93	12	35.	39.917	128.	18.	878.992	29.648	18.	21.5	44.	104.3
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-04/21/93	12	0.05	0.043	0.07	0.01	0.	0.02	0.013	0.023	0.06	0.067
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-04/21/93	12	0.34	0.362	0.55	0.08	0.024	0.155	0.107	0.24	0.515	0.544
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/80-04/21/93	12	0.12	0.137	0.26	0.09	0.002	0.047	0.09	0.113	0.14	0.239
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/22/81-11/04/92	12	2.5	2.675	3.6	1.9	0.418	0.647	1.9	2.075	3.425	3.6
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-04/21/93	12	29.	28.192	30.	25.6	2.639	1.625	25.6	26.85	29.5	29.88
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-04/21/93	12	3.8	3.8	4.2	3.4	0.044	0.209	3.46	3.7	3.975	4.14
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-04/21/93	12	8.7	8.517	8.9	7.9	0.138	0.371	7.93	8.075	8.8	8.9
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	12 ##	0.5	0.917	2.	0.5	0.447	0.669	0.5	0.5	1.75	2.
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	12	37.	57.917	207.	7.	3358.629	57.954	7.9	17.75	82.75	178.5
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	12	1.54	1.563	2.316	0.845	0.204	0.451	0.892	1.248	1.917	2.236
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			36.576								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/25/83-04/21/93	12	24.	31.083	110.	7.	934.083	30.563	7.	7.25	40.25	97.1
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/25/83-04/21/93	12	1.374	1.322	2.041	0.845	0.163	0.403	0.845	0.86	1.598	1.977
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			20.983								

** - 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 NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	12	11.	10.333	20.	0.	71.333	8.446	0.	1.	18.75	20.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	12	225.5	226.583	255.	202.	246.811	15.71	202.6	216.5	236.25	252.3
00300p	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	12	10.55	10.525	13.7	7.7	5.258	2.293	7.76	8.125	12.925	13.55
00340	COD, .25N K2CR2O7 MG/L	12/14/77-04/21/93	12	13.	13.583	26.	4.	42.265	6.501	5.2	8.25	19.25	24.8
00403	PH, LAB, STANDARD UNITS SU	09/13/83-04/21/93	12	8.	7.992	8.4	7.7	0.048	0.219	7.7	7.825	8.15	8.37
00403	CONVERTED PH, LAB, STANDARD UNITS	09/13/83-04/21/93	12	8.	7.945	8.4	7.7	0.05	0.225	7.7	7.825	8.15	8.37
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/13/83-04/21/93	12	0.01	0.011	0.02	0.004	0.	0.005	0.004	0.007	0.015	0.02
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-04/21/93	12	32.5	36.333	71.	14.	324.788	18.022	14.3	22.5	51.	67.4
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-04/21/93	12	0.025	0.023	0.04	0.01	0.	0.012	0.01	0.01	0.03	0.04
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-04/21/93	12	0.3	0.365	0.66	0.07	0.039	0.196	0.106	0.21	0.545	0.66
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/80-04/21/93	12	0.13	0.16	0.46	0.09	0.01	0.102	0.09	0.105	0.158	0.391
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/22/81-11/04/92	12	2.3	2.792	6.4	1.8	1.632	1.277	1.86	2.025	3.175	5.62
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-04/21/93	12	27.75	28.525	36.5	25.4	9.849	3.138	25.4	26.	29.7	34.97
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-04/21/93	12	3.8	3.825	4.4	3.4	0.12	0.347	3.4	3.525	4.	4.4
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-04/21/93	12	8.5	8.458	10.3	7.5	0.61	0.781	7.53	7.75	8.6	10.
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	12	2.	1.75	3.	1.	0.386	0.622	1.	1.	2.	2.7
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	12	50.	89.833	530.	4.	20268.697	142.368	5.8	22.	85.	404.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	12	1.69	1.648	2.724	0.602	0.292	0.54	0.721	1.324	1.929	2.519
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			44.443								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/25/83-04/21/93	12	86.	137.167	670.	38.	30049.788	173.349	38.6	52.	130.	525.4
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/25/83-04/21/93	12	1.934	1.974	2.826	1.58	0.117	0.342	1.586	1.716	2.114	2.66
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			94.233								

** - 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 1992 - Station NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	10	10.	8.2	17.	0.	42.4	6.512	0.	0.	13.5	16.8
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	10	224.5	225.4	235.	215.	44.933	6.703	215.4	220.5	231.75	234.9
00300p	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	10	9.85	10.71	13.6	8.9	2.985	1.728	8.93	9.35	12.4	13.54
00340	COD, .25N K2CR2O7 MG/L	12/14/77-04/21/93	10	9.5	9.5	12.	7.	4.722	2.173	7.	7.	12.	12.
00403	PH, LAB, STANDARD UNITS SU	09/13/83-04/21/93	10	8.15	8.15	8.5	7.9	0.034	0.184	7.91	8.	8.3	8.48
00403	CONVERTED PH, LAB, STANDARD UNITS	09/13/83-04/21/93	10	8.147	8.117	8.5	7.9	0.035	0.187	7.91	8.	8.3	8.48
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/13/83-04/21/93	10	0.007	0.008	0.013	0.003	0.	0.003	0.003	0.005	0.01	0.012
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-04/21/93	10	22.5	24.9	43.	13.	86.1	9.279	13.4	18.5	29.75	42.5
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-04/21/93	10 ##	0.01	0.013	0.04	0.01	0.	0.009	0.01	0.01	0.01	0.037
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-04/21/93	10	0.33	0.361	0.59	0.15	0.02	0.143	0.161	0.268	0.49	0.589
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/80-04/21/93	10	0.115	0.121	0.17	0.09	0.001	0.023	0.091	0.108	0.133	0.167
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/22/81-11/04/92	10	2.35	2.31	2.6	1.8	0.065	0.256	1.82	2.15	2.525	2.6
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-04/21/93	10	28.3	28.42	30.2	26.5	1.662	1.289	26.52	27.45	29.825	30.17
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-04/21/93	10	4.	3.93	4.2	3.6	0.027	0.164	3.62	3.8	4.	4.18
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-04/21/93	10	8.35	8.37	9.1	7.4	0.24	0.49	7.45	8.125	8.725	9.07
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	10	1.	1.3	2.	1.	0.233	0.483	1.	1.	2.	2.
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	10	39.	83.	470.	6.	19640.222	140.144	6.2	9.5	92.	433.4
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	10	1.587	1.535	2.672	0.778	0.35	0.591	0.791	0.976	1.963	2.607
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			34.292								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/25/83-04/21/93	10	65.	138.9	805.	6.	56340.1	237.361	8.4	37.5	119.	738.5
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/25/83-04/21/93	10	1.812	1.813	2.906	0.778	0.293	0.541	0.848	1.571	2.073	2.83
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			65.026								

** - 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

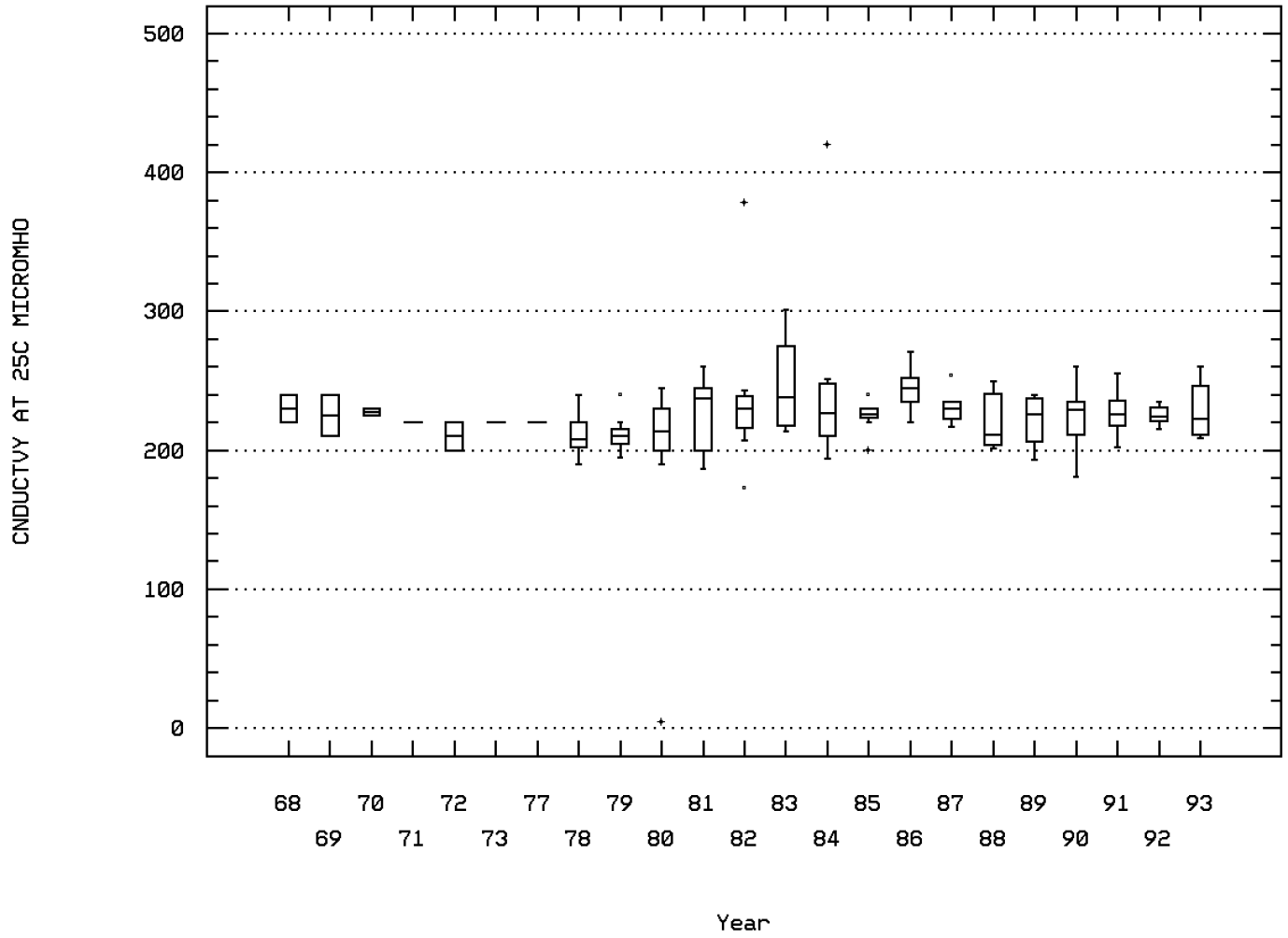
Annual Analysis for 1993 - Station NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	4	0.	1.25	5.	0.	6.25	2.5	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	4	223.	228.75	260.	209.	531.583	23.056	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	4	13.75	13.55	14.4	12.3	0.83	0.911	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	12/14/77-04/21/93	4	12.5	13.	19.	8.	24.667	4.967	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	09/13/83-04/21/93	4	8.05	8.025	8.1	7.9	0.009	0.096	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	09/13/83-04/21/93	4	8.047	8.017	8.1	7.9	0.009	0.096	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/13/83-04/21/93	4	0.009	0.01	0.013	0.008	0.	0.002	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-04/21/93	4	41.	34.5	44.	12.	227.	15.067	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-04/21/93	4	0.025	0.023	0.03	0.01	0.	0.01	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-04/21/93	4	0.475	0.445	0.57	0.26	0.018	0.134	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/80-04/21/93	4	0.125	0.13	0.18	0.09	0.002	0.039	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-04/21/93	4	28.6	28.925	32.8	25.7	8.782	2.964	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-04/21/93	4	3.8	4.025	4.9	3.6	0.376	0.613	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-04/21/93	4	8.6	9.05	11.2	7.8	2.303	1.518	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	4	2.	1.75	2.	1.	0.25	0.5	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	4	17.	25.	60.	6.	588.	24.249	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	4	1.211	1.244	1.778	0.778	0.18	0.424	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			17.558								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/25/83-04/21/93	4	32.	34.5	46.	28.	65.	8.062	**	**	**	**
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/25/83-04/21/93	4	1.504	1.53	1.663	1.447	0.009	0.095	**	**	**	**
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			33.855								

** - 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: NIOB0031 Parameter Code: 00095

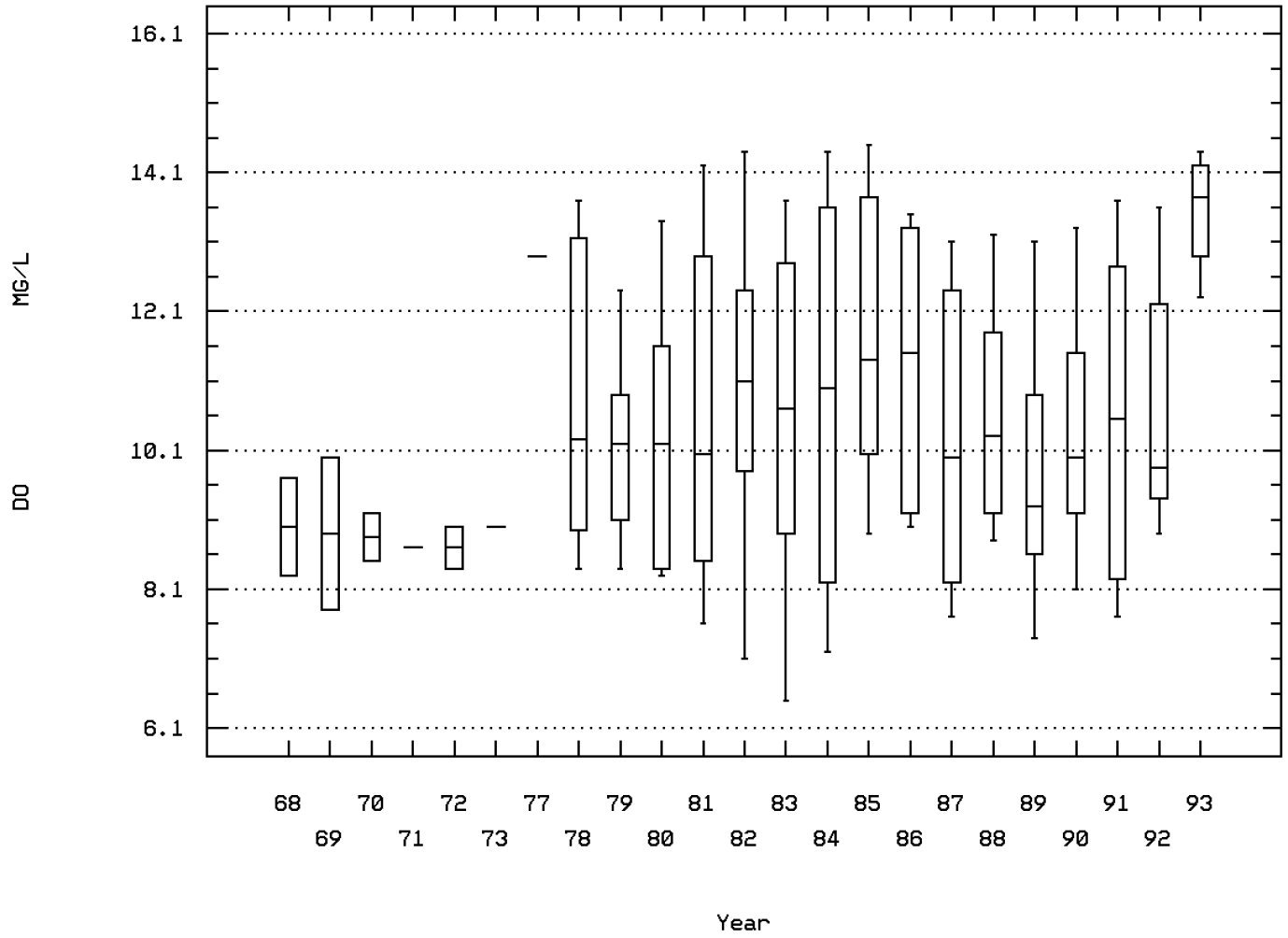
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



NIOBRARA RIVER AT SPARKS

Station: NIOB0031 Parameter Code: 00300

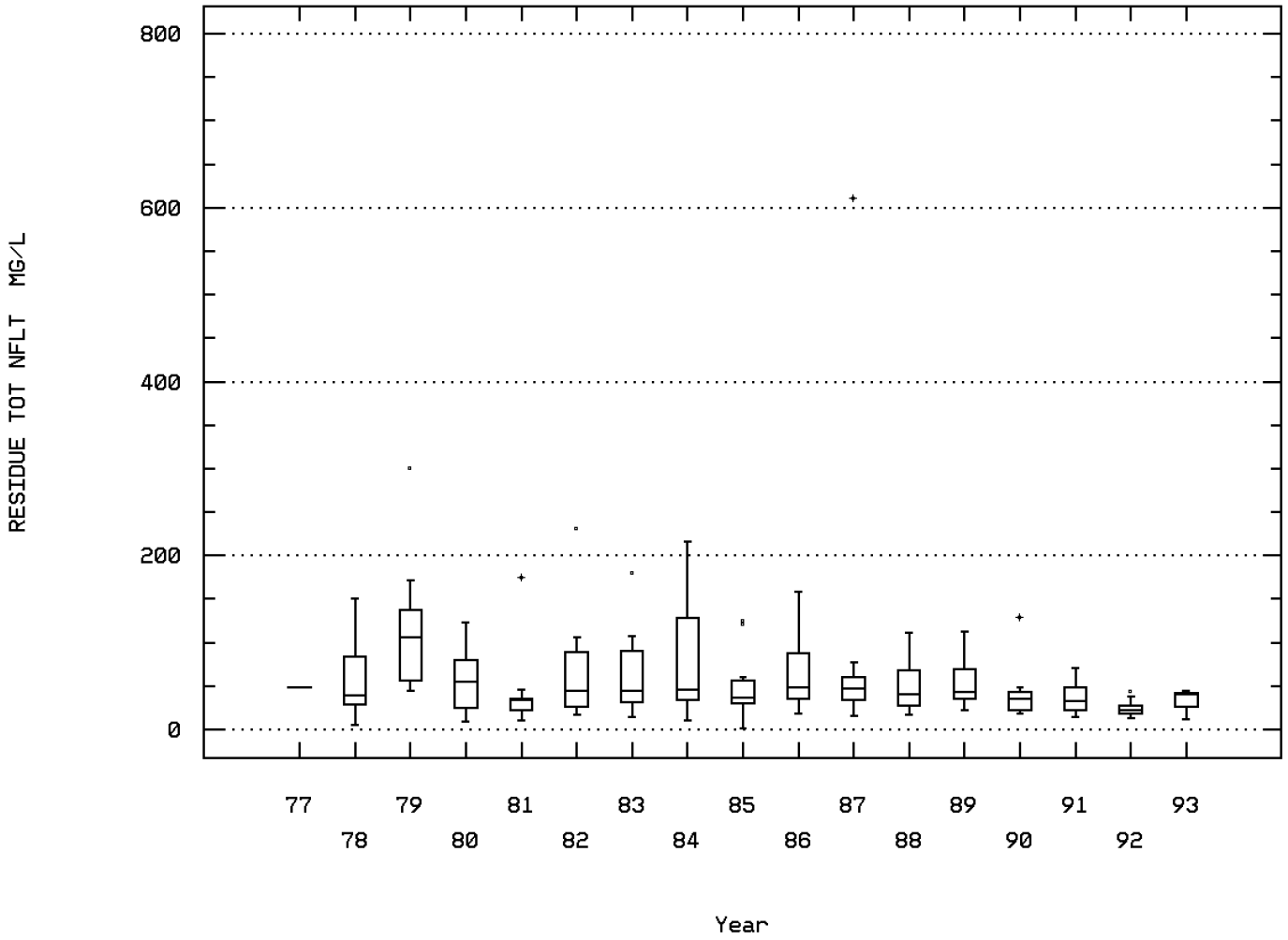
OXYGEN, DISSOLVED



NIOBRARA RIVER AT SPARKS

Station: NIOB0031 Parameter Code: 00530

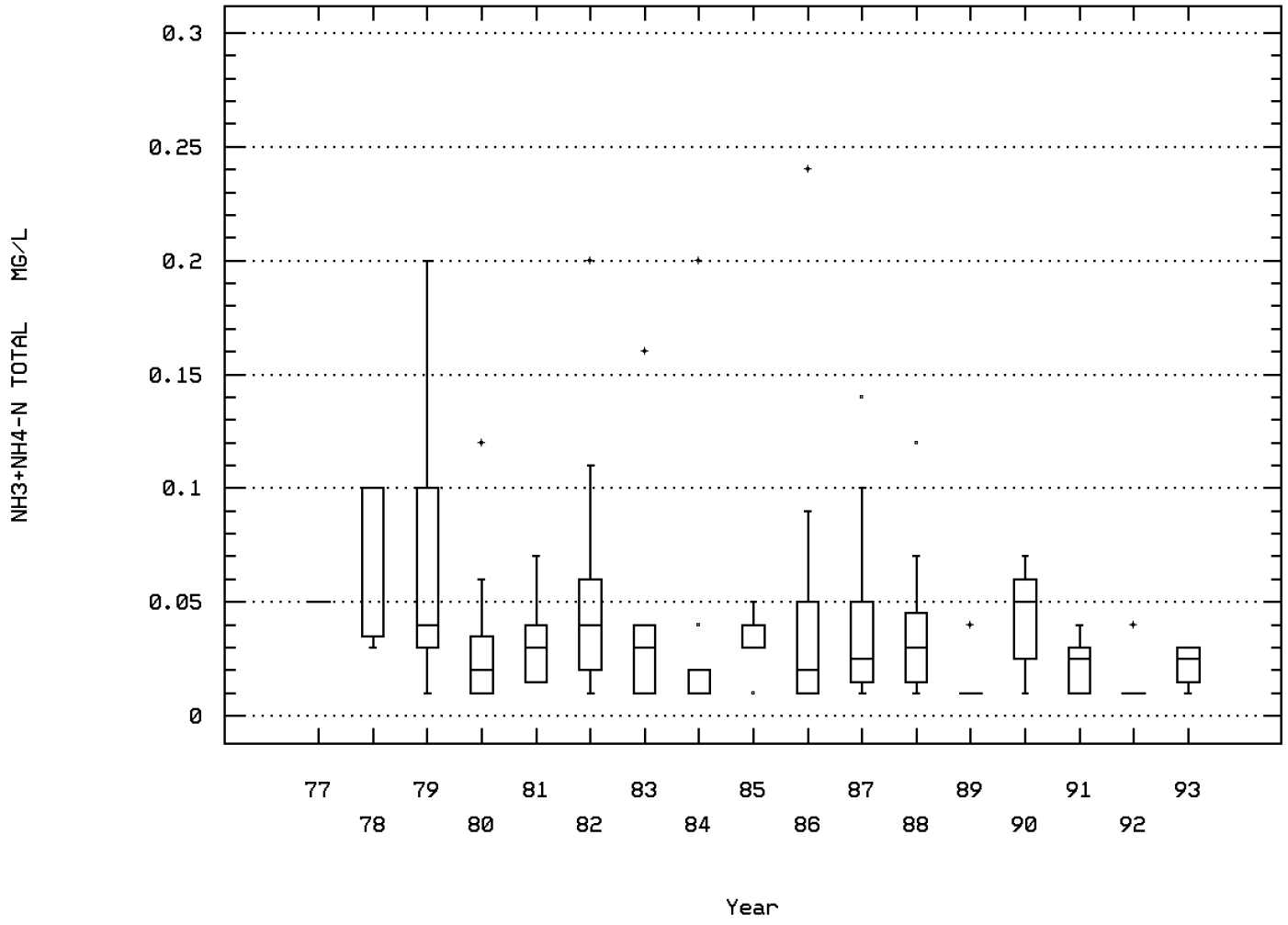
RESIDUE, TOTAL NONFILTRABLE (MG/L)



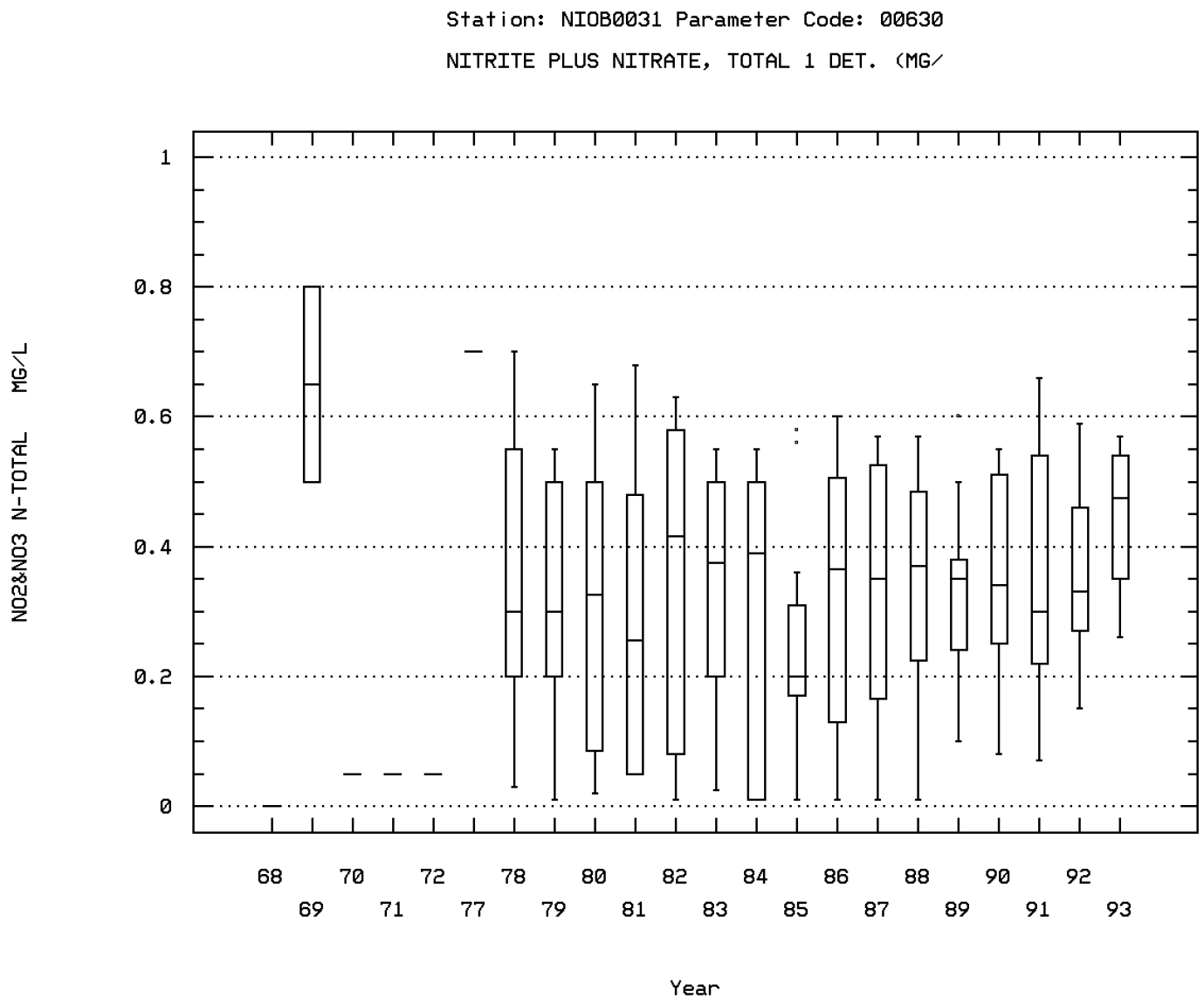
NIOBRARA RIVER AT SPARKS

Station: NIOB0031 Parameter Code: 00610

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



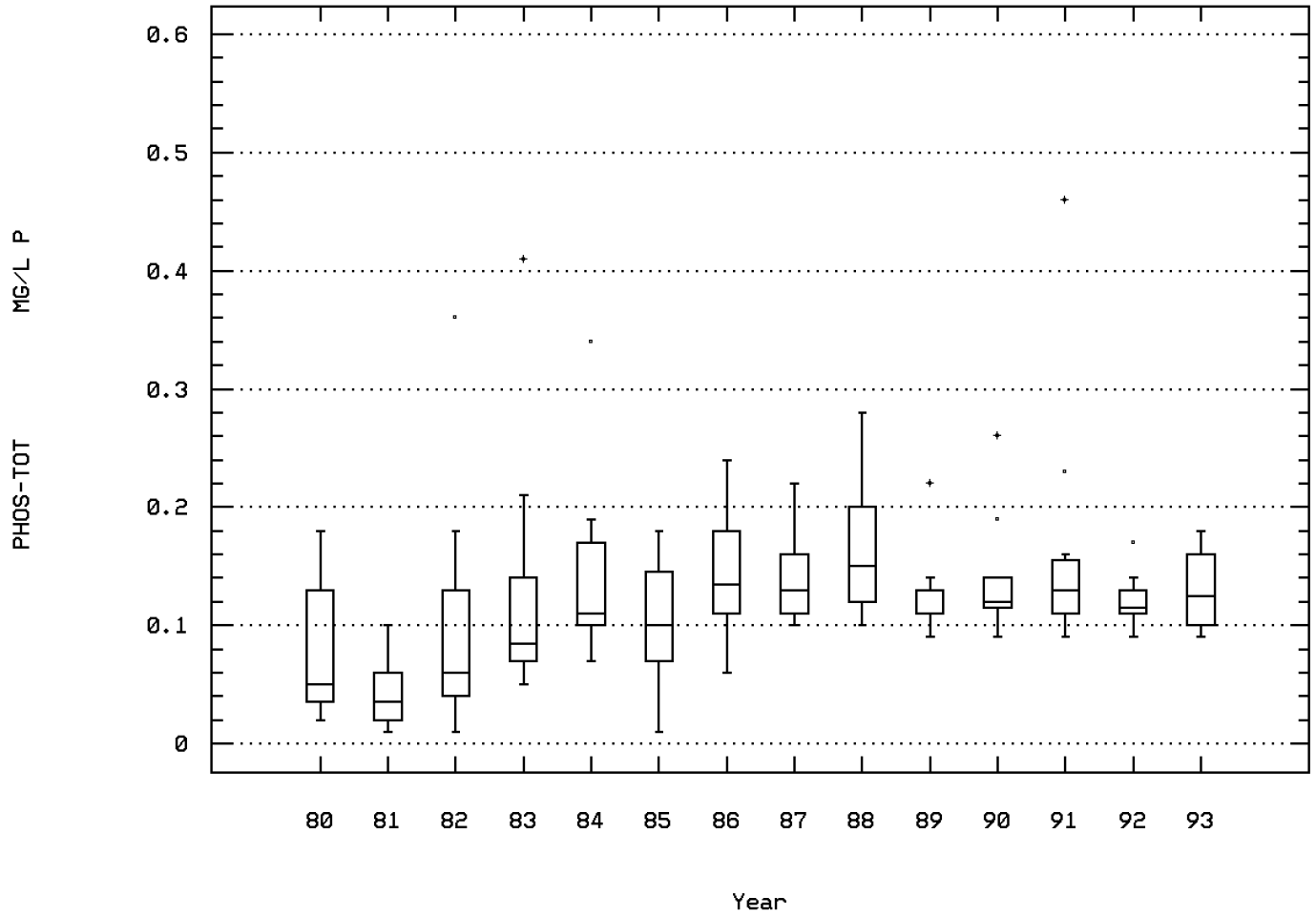
NIOBRARA RIVER AT SPARKS



NIOBRARA RIVER AT SPARKS

Station: NIOB0031 Parameter Code: 00665

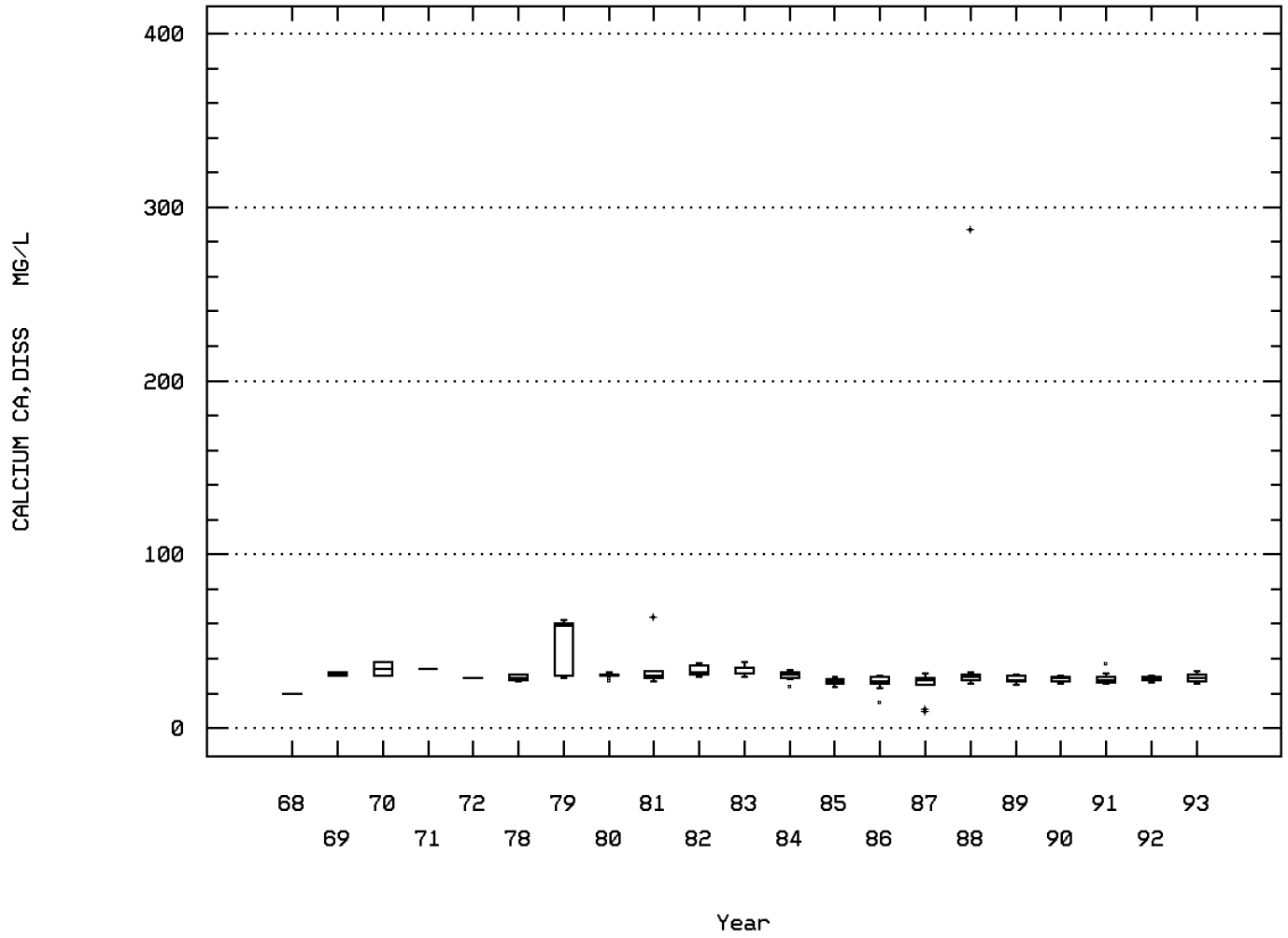
PHOSPHORUS, TOTAL (MG/L AS P)



NIOBRARA RIVER AT SPARKS

Station: NIOB0031 Parameter Code: 00915

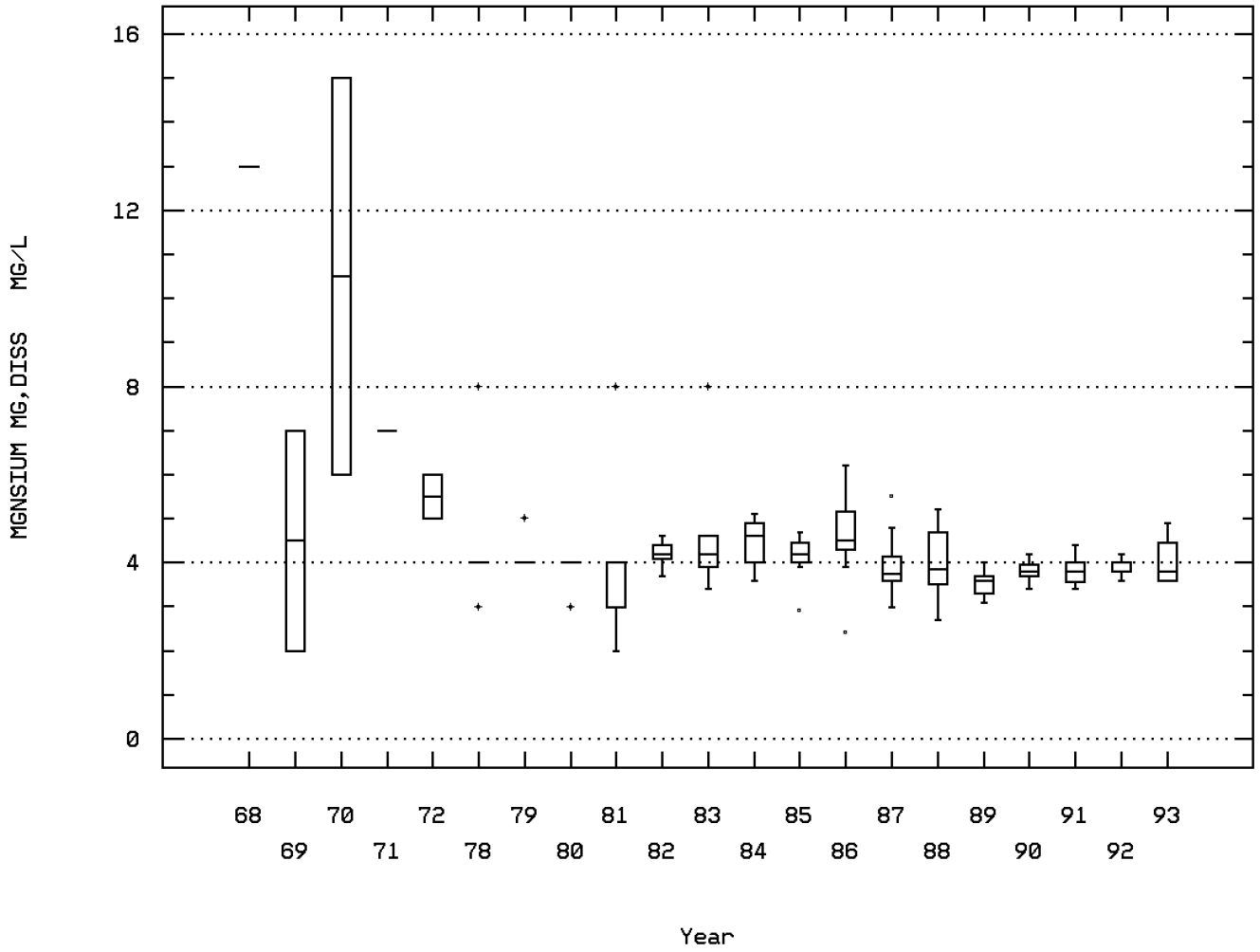
CALCIUM, DISSOLVED (MG/L AS CA)



NIOBRARA RIVER AT SPARKS

Station: NIOB0031 Parameter Code: 00925

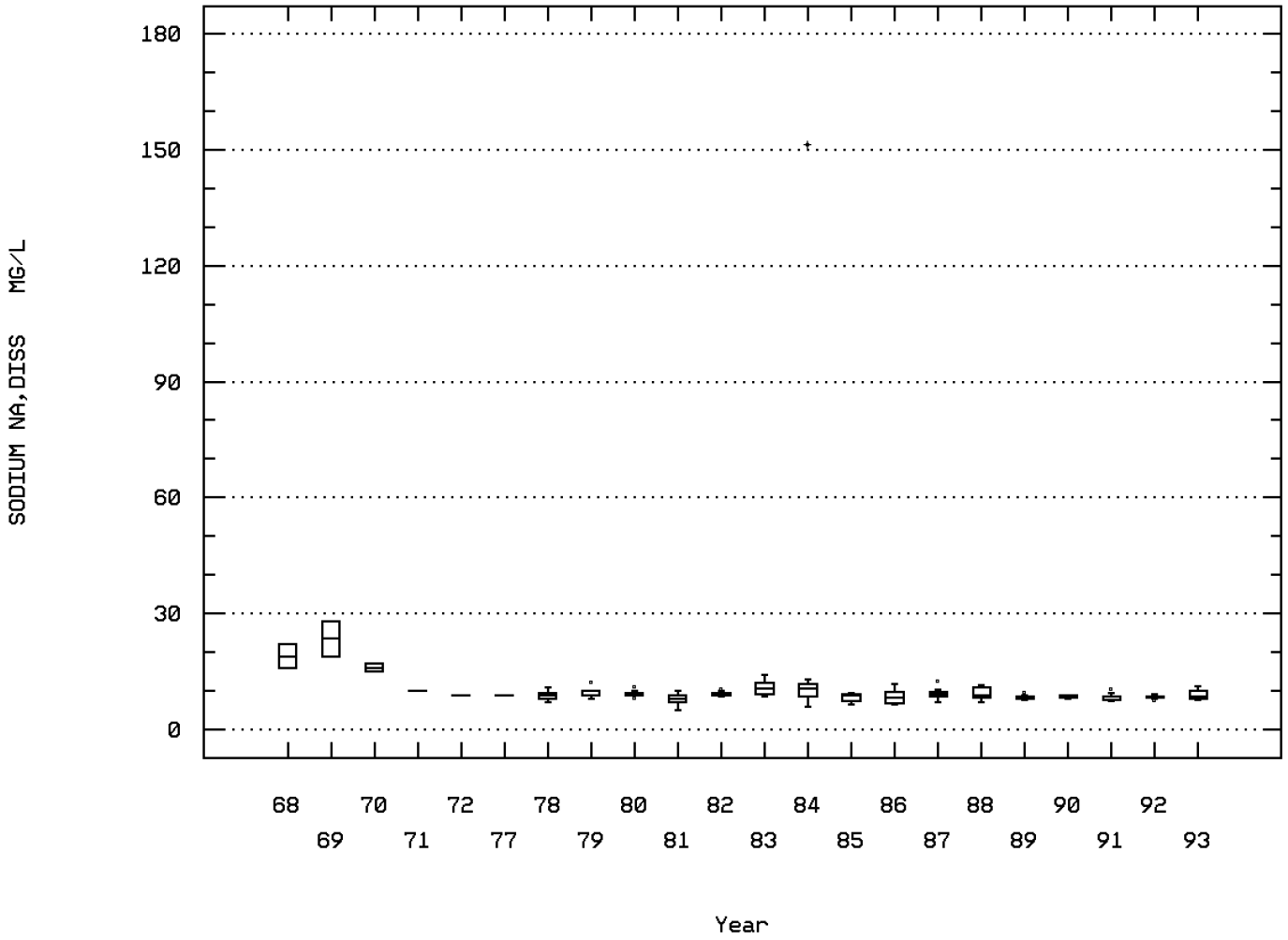
MAGNESIUM, DISSOLVED (MG/L AS MG)



NIOBRARA RIVER AT SPARKS

Station: NIOB0031 Parameter Code: 00930

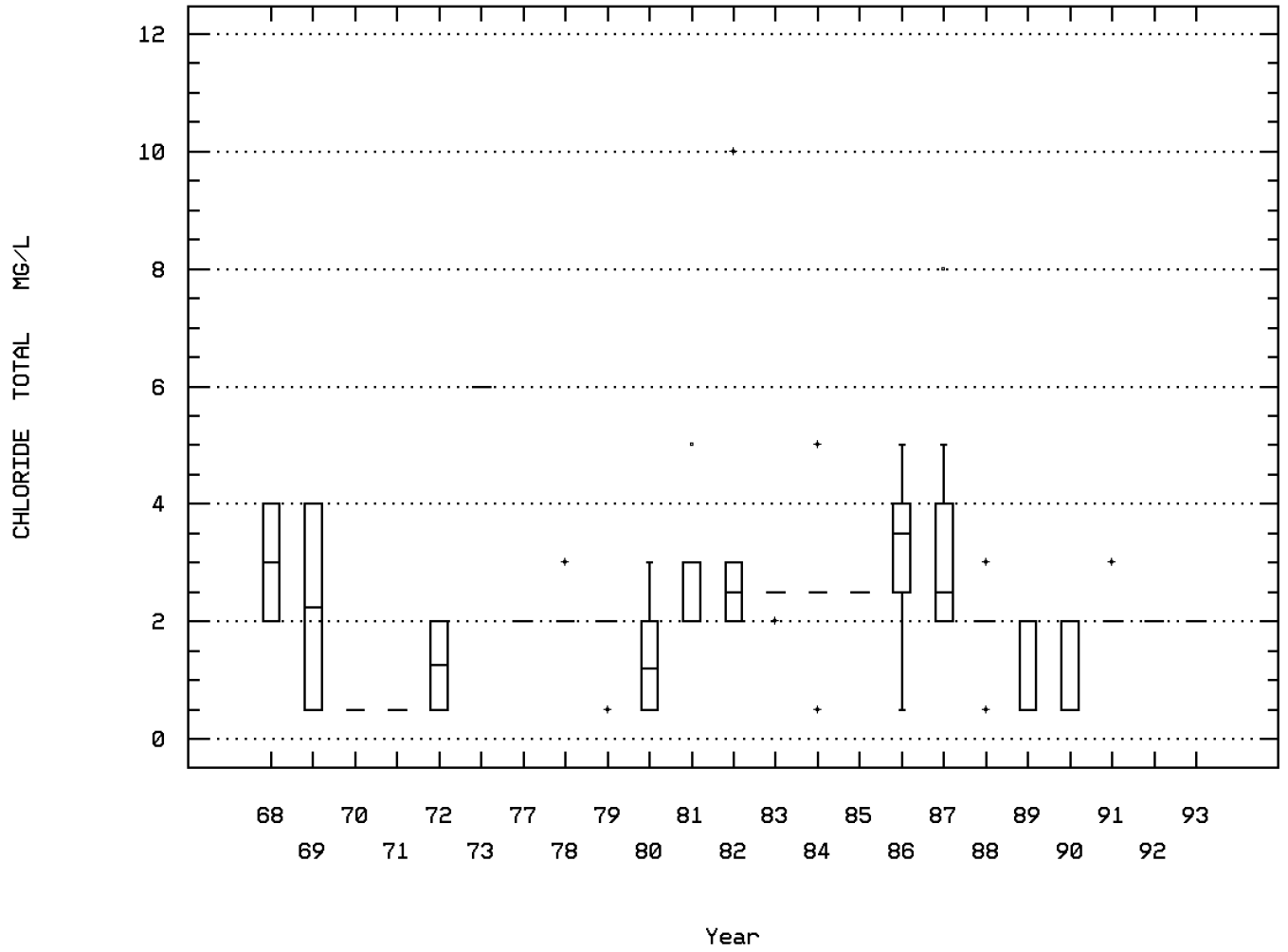
SODIUM, DISSOLVED (MG/L AS NA)



NIOBRARA RIVER AT SPARKS

Station: NIOB0031 Parameter Code: 00940

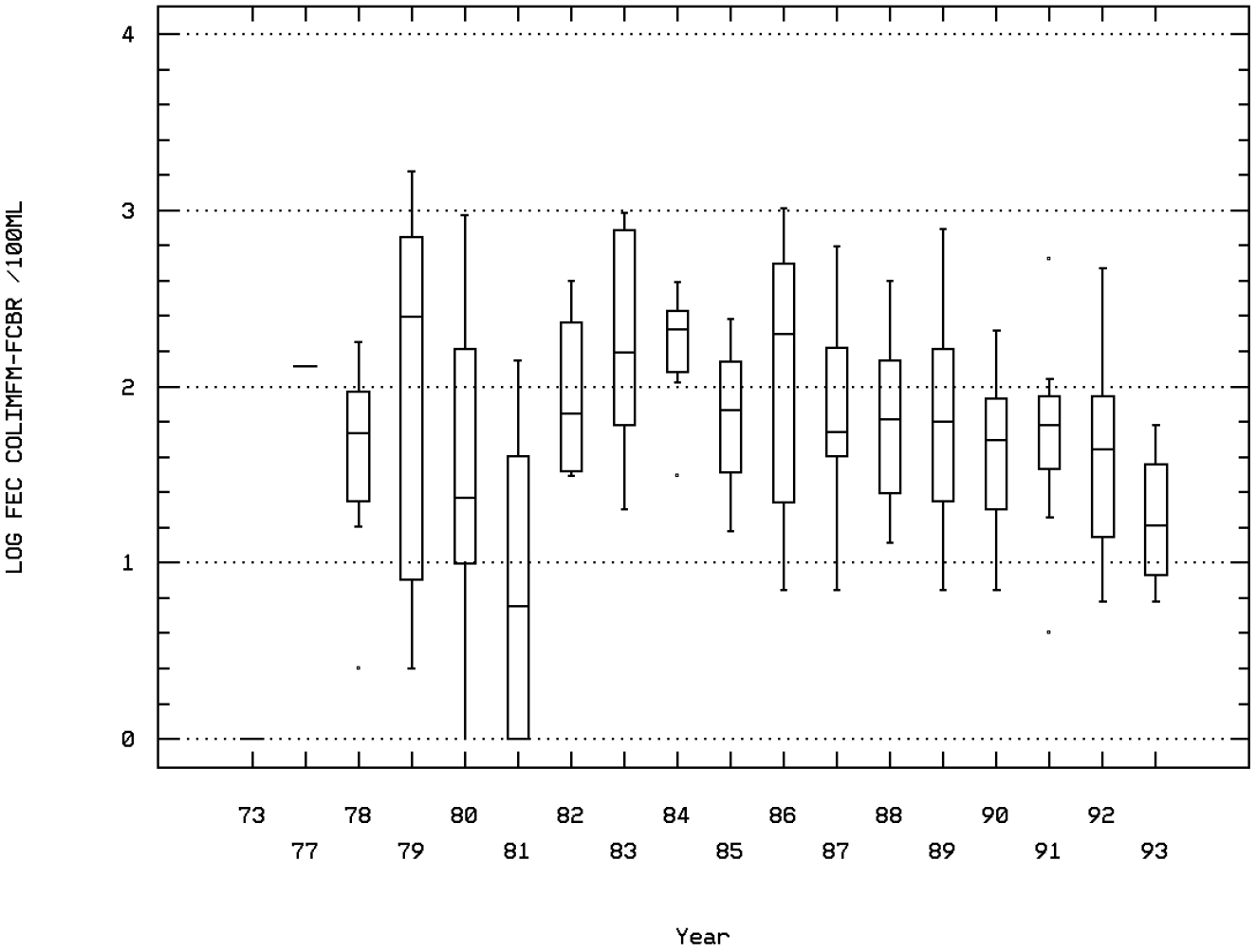
CHLORIDE,TOTAL IN WATER



NIOBRARA RIVER AT SPARKS

Station: NIOB0031 Parameter Code: 31616

LOG FECAL COLIFORM,MEMBR FILTER,M-FC BR



NIOBRARA RIVER AT SPARKS

Seasonal Analysis for Season #1: 8/01 to 1/14 - Station NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	73	11.	11.77	29.1	0.	88.774	9.422	0.	2.	20.25	25.
00057	FLOW, INDICATES IT HAS BEEN CHECKED	05/26/70-04/10/89	39	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-04/10/89	59	654.	667.407	1140.	391.	34404.039	185.483	450.	501.	800.	904.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	74	220.	223.243	420.	4.	1763.639	41.996	200.	210.	233.	245.5
00300p	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	71	10.6	10.91	14.5	7.1	4.484	2.118	8.22	9.	12.9	13.7
00335	COD, .025N K2CR2O7 MG/L	05/30/79-03/30/87	15	11.1	20.073	61.3	2.5	388.546	19.712	2.5	5.	34.8	54.52
00340	COD, .25N K2CR2O7 MG/L	12/14/77-04/21/93	52	14.	23.875	178.	1.	1404.479	37.476	2.5	7.	23.	51.5
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	45	8.1	8.149	9.	7.3	0.125	0.353	7.72	7.95	8.4	8.6
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	45	8.1	8.004	9.	7.3	0.146	0.382	7.72	7.95	8.4	8.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	45	0.008	0.01	0.05	0.001	0.	0.01	0.003	0.004	0.011	0.02
00403	PH, LAB, STANDARD UNITS SU	09/13/83-04/21/93	42	8.05	8.105	8.9	7.3	0.164	0.405	7.6	7.8	8.5	8.7
00403	CONVERTED PH, LAB, STANDARD UNITS	09/13/83-04/21/93	42	8.047	7.94	8.9	7.3	0.192	0.438	7.6	7.8	8.5	8.7
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/13/83-04/21/93	42	0.009	0.011	0.05	0.001	0.	0.01	0.002	0.003	0.016	0.025
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-04/21/93	69	34.	56.087	610.	2.	6925.728	83.221	15.	21.	53.5	106.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-04/21/93	68	0.026	0.038	0.2	0.01	0.002	0.04	0.01	0.01	0.048	0.1
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/25/80-04/21/93	15 ##	0.25	0.498	1.66	0.12	0.174	0.417	0.198	0.25	0.72	1.294
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-04/21/93	73	0.36	0.36	0.8	0.	0.039	0.197	0.05	0.2	0.52	0.592
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/80-04/21/93	58	0.1	0.106	0.46	0.01	0.006	0.074	0.03	0.058	0.13	0.16
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/22/81-11/04/92	49	2.4	2.737	6.7	1.2	0.979	0.989	1.9	2.1	3.15	4.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-04/21/93	74	29.05	34.647	287.	14.2	960.918	30.999	26.6	28.	31.	37.65
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-04/21/93	72	4.	4.293	15.	2.	3.429	1.852	3.3	3.7	4.2	4.94
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-04/21/93	73	8.8	9.062	28.	6.	7.193	2.682	7.32	8.05	9.	10.3
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	74	2.	2.032	10.	0.5	2.361	1.537	0.5	1.	2.5	3.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	69	40.	115.333	940.	0.	29751.909	172.487	7.	20.	143.5	240.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	69	1.602	1.67	2.973	-0.301	0.427	0.654	0.845	1.301	2.157	2.38
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			46.817								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/25/83-04/21/93	41	67.	101.195	670.	10.	12938.911	113.749	27.2	40.	136.	213.6
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/25/83-04/21/93	41	1.826	1.841	2.826	1.	0.136	0.369	1.435	1.602	2.133	2.329
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			69.281								

** - 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: 1/15 to 3/09 - Station NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	28	0.25	1.125	7.	-2.	3.993	1.998	0.	0.	3.	6.2
00057	FLOW, INDICATES IT HAS BEEN CHECKED	05/26/70-04/10/89	15	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-04/10/89	19	852.	910.526	2450.	540.	165833.152	407.226	600.	700.	963.	1100.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	28	216.	217.25	250.	190.	220.12	14.836	199.3	205.25	229.	237.3
00300p	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	27	13.1	12.652	14.4	9.6	1.256	1.121	10.88	11.8	13.4	13.84
00335	COD, .025N K2CR2O7 MG/L	05/30/79-03/30/87	4	13.1	12.625	21.8	2.5	75.289	8.677	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	12/14/77-04/21/93	24	12.5	20.833	176.	2.5	1171.862	34.232	3.75	8.5	18.	34.5
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	13	8.	7.977	8.5	6.9	0.187	0.432	7.1	7.85	8.25	8.46
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	13	8.	7.702	8.5	6.9	0.269	0.519	7.1	7.85	8.25	8.46
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	13	0.01	0.02	0.126	0.003	0.001	0.033	0.003	0.006	0.015	0.091
00403	PH, LAB, STANDARD UNITS SU	09/13/83-04/21/93	20	7.9	7.91	8.4	7.3	0.045	0.213	7.7	7.825	8.	8.18
00403	CONVERTED PH, LAB, STANDARD UNITS	09/13/83-04/21/93	20	7.9	7.854	8.4	7.3	0.048	0.22	7.7	7.825	8.	8.18
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/13/83-04/21/93	20	0.013	0.014	0.05	0.004	0.	0.009	0.007	0.01	0.015	0.02
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-04/21/93	28	35.5	51.714	158.	5.	1643.249	40.537	14.7	24.75	77.75	124.4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-04/21/93	28	0.03	0.036	0.16	0.01	0.001	0.03	0.01	0.013	0.04	0.071
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/25/80-04/21/93	9 ##	0.25	0.36	0.67	0.25	0.029	0.17	0.25	0.25	0.535	0.67
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-04/21/93	28	0.555	0.547	0.7	0.4	0.006	0.077	0.429	0.5	0.58	0.682
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/80-04/21/93	24	0.14	0.145	0.36	0.02	0.004	0.066	0.065	0.12	0.17	0.22
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/22/81-11/04/92	20	2.4	2.605	5.3	1.8	0.936	0.968	1.9	2.	2.7	4.98
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-04/21/93	28	27.65	27.246	33.	9.	18.957	4.354	24.59	25.45	29.975	31.53
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-04/21/93	28	4.	3.911	4.7	3.	0.166	0.408	3.38	3.6	4.2	4.42
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-04/21/93	28	8.55	13.604	151.	7.5	725.52	26.935	7.68	8.	9.	9.91

** - 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: 1/15 to 3/09 - Station NIOB0031

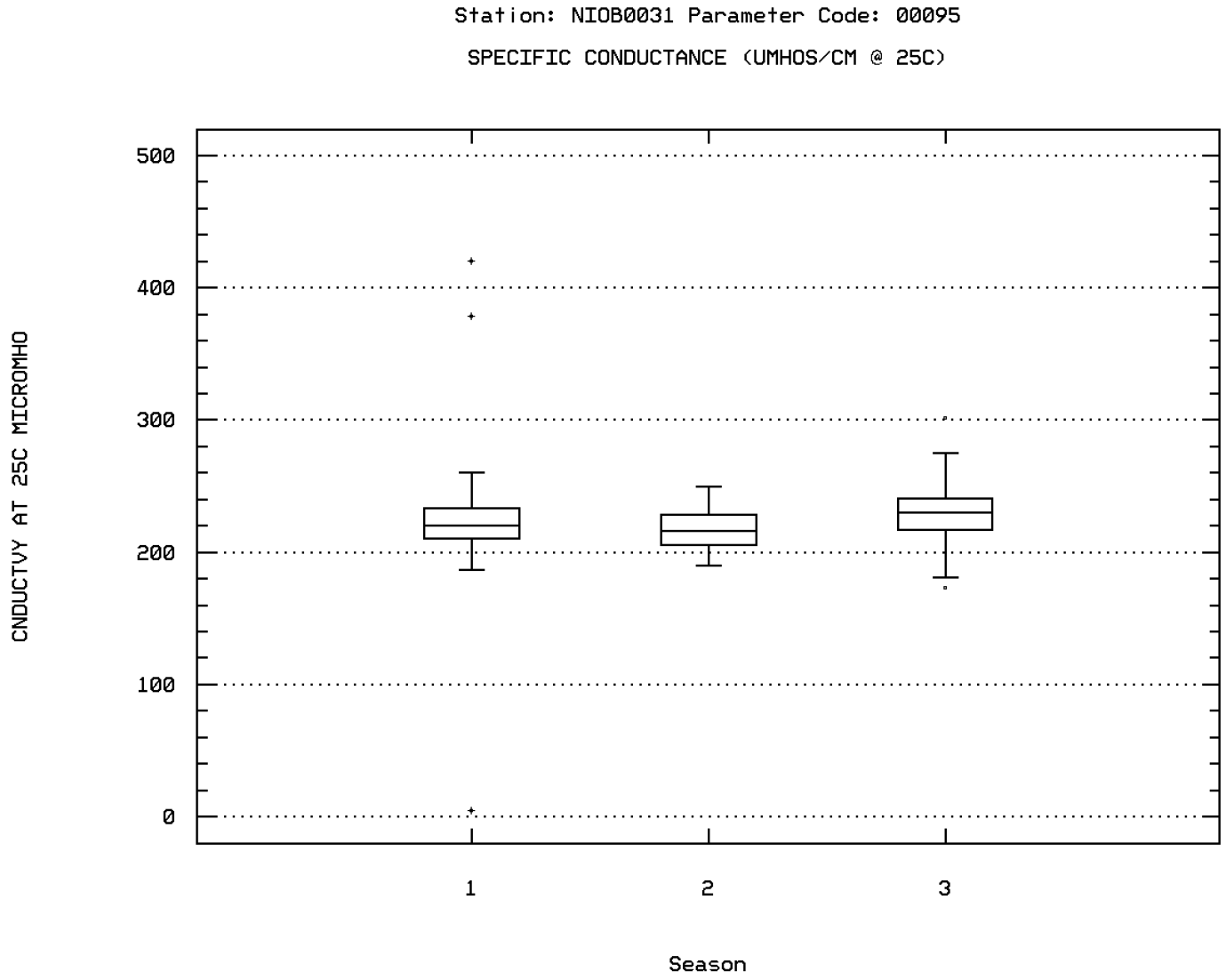
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	28	1.	1.643	5.	0.5	0.96	0.98	0.5	1.	2.5	2.5
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	28	73.	174.911	1030.	0.	61394.186	247.779	9.6	14.25	267.5	599.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	28	1.863	1.8	3.013	0.	0.518	0.72	0.978	1.149	2.427	2.776
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			63.105								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/25/83-04/21/93	20	58.5	100.8	870.	6.	34567.537	185.923	7.	31.	85.	156.2
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/25/83-04/21/93	20	1.764	1.689	2.94	0.778	0.268	0.518	0.845	1.491	1.929	2.193
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			48.897								

** - 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: 3/10 to 7/31 - Station NIOB0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-04/21/93	79	15.5	16.147	30.	0.	62.433	7.901	5.8	10.	22.5	27.2
00057	FLOW, INDICATES IT HAS BEEN CHECKED	05/26/70-04/10/89	40	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060	FLOW, STREAM, MEAN DAILY CFS	05/15/68-04/10/89	62	726.5	780.387	1610.	377.	58831.356	242.552	470.9	640.5	925.	1074.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-04/21/93	79	230.	231.101	301.	173.	458.041	21.402	205.	217.	241.	255.
00300p	OXYGEN, DISSOLVED MG/L	05/15/68-04/21/93	75	9.3	9.664	14.	6.5	2.222	1.49	7.96	8.6	10.5	11.72
00335	COD, .025N K2CR2O7 MG/L	05/30/79-03/30/87	13	21.6	22.3	48.8	2.5	189.007	13.748	4.18	10.3	31.6	45.8
00340	COD, .25N K2CR2O7 MG/L	12/14/77-04/21/93	62	18.5	22.524	81.	1.	348.266	18.662	2.95	9.	28.5	48.7
00400	PH (STANDARD UNITS)	08/29/68-09/18/89	61	8.3	8.288	9.3	7.36	0.126	0.355	7.8	8.1	8.5	8.68
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-09/18/89	61	8.3	8.126	9.3	7.36	0.153	0.391	7.8	8.1	8.5	8.68
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-09/18/89	61	0.005	0.007	0.044	0.001	0.	0.009	0.002	0.003	0.008	0.016
00403	PH, LAB, STANDARD UNITS SU	09/13/83-04/21/93	41	8.2	8.185	8.9	7.1	0.148	0.385	7.72	8.	8.35	8.78
00403	CONVERTED PH, LAB, STANDARD UNITS	09/13/83-04/21/93	41	8.2	7.99	8.9	7.1	0.187	0.433	7.72	8.	8.35	8.78
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/13/83-04/21/93	41	0.006	0.01	0.079	0.001	0.	0.014	0.002	0.004	0.01	0.019
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/14/77-04/21/93	73	46.	62.178	231.	10.	1812.26	42.571	23.8	36.	78.5	117.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/14/77-04/21/93	74	0.025	0.039	0.24	0.01	0.002	0.043	0.01	0.01	0.04	0.1
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/25/80-04/21/93	15	0.6	0.69	1.77	0.25	0.203	0.45	0.25	0.25	1.05	1.44
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-04/21/93	78	0.21	0.218	0.63	0.	0.025	0.157	0.01	0.05	0.33	0.404
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/80-04/21/93	63	0.13	0.132	0.41	0.01	0.004	0.064	0.06	0.09	0.18	0.206
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/22/81-11/04/92	53	3.8	3.96	9.2	1.5	2.31	1.52	2.34	2.8	4.8	6.12
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-04/21/93	77	30.	30.103	60.	10.3	24.75	4.975	26.78	27.55	31.3	35.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-04/21/93	77	4.	4.313	8.	2.	0.983	0.991	3.4	3.85	4.65	5.52
00930p	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-04/21/93	78	9.3	9.853	22.	5.	6.469	2.543	7.37	8.65	10.85	12.12
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-04/21/93	79	2.	2.108	6.	0.5	1.286	1.134	0.5	1.	2.5	4.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	74	63.5	156.534	1660.	0.	73754.708	271.578	6.75	10.	144.	458.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-04/21/93	74	1.802	1.695	3.22	0.	0.521	0.721	0.829	1.	2.158	2.661
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			49.559								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/25/83-04/21/93	44	60.	171.773	2600.	5.	164693.11	405.824	10.	29.25	148.	370.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/25/83-04/21/93	44	1.777	1.81	3.415	0.699	0.318	0.564	1.	1.466	2.165	2.558
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			64.525								

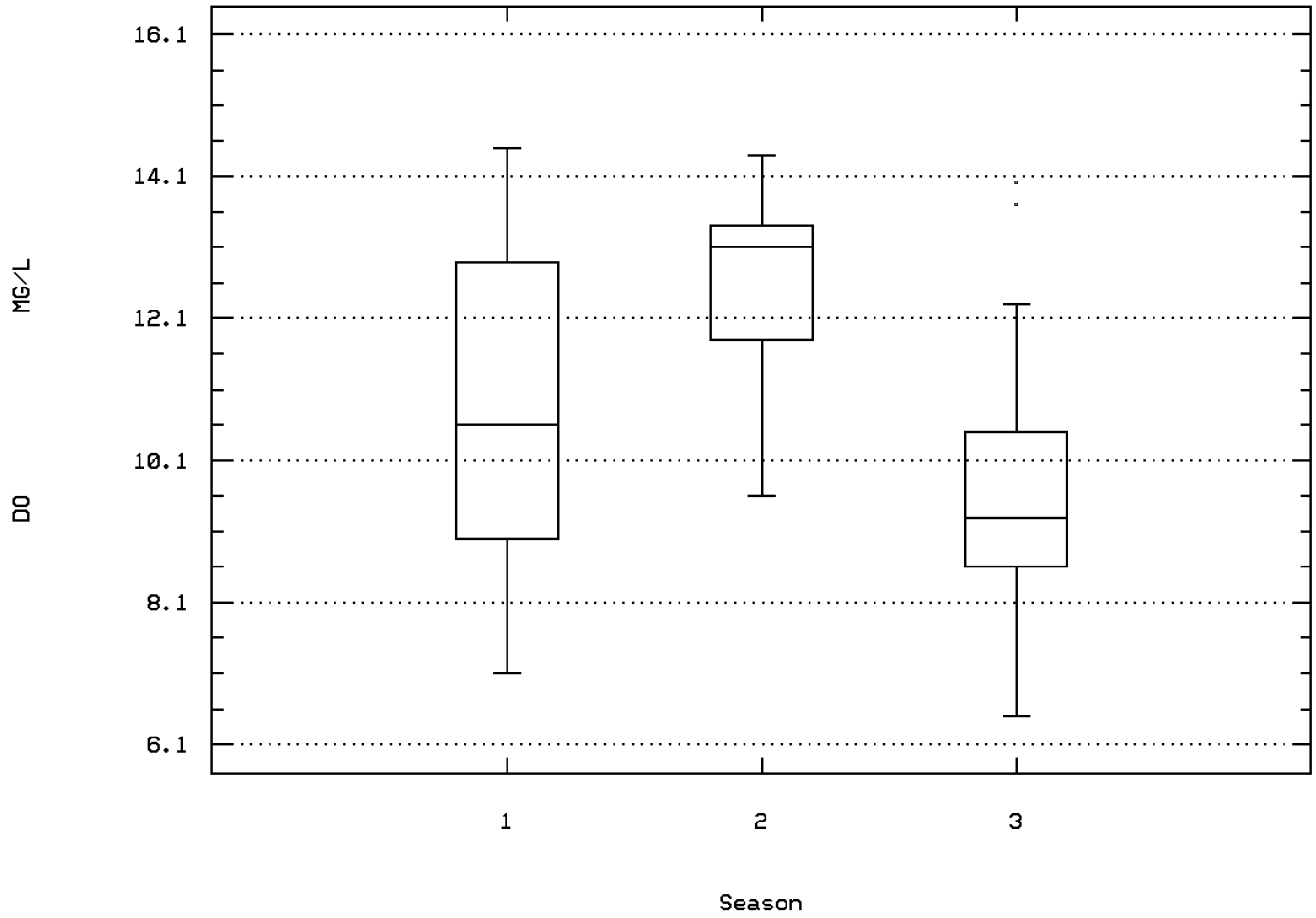
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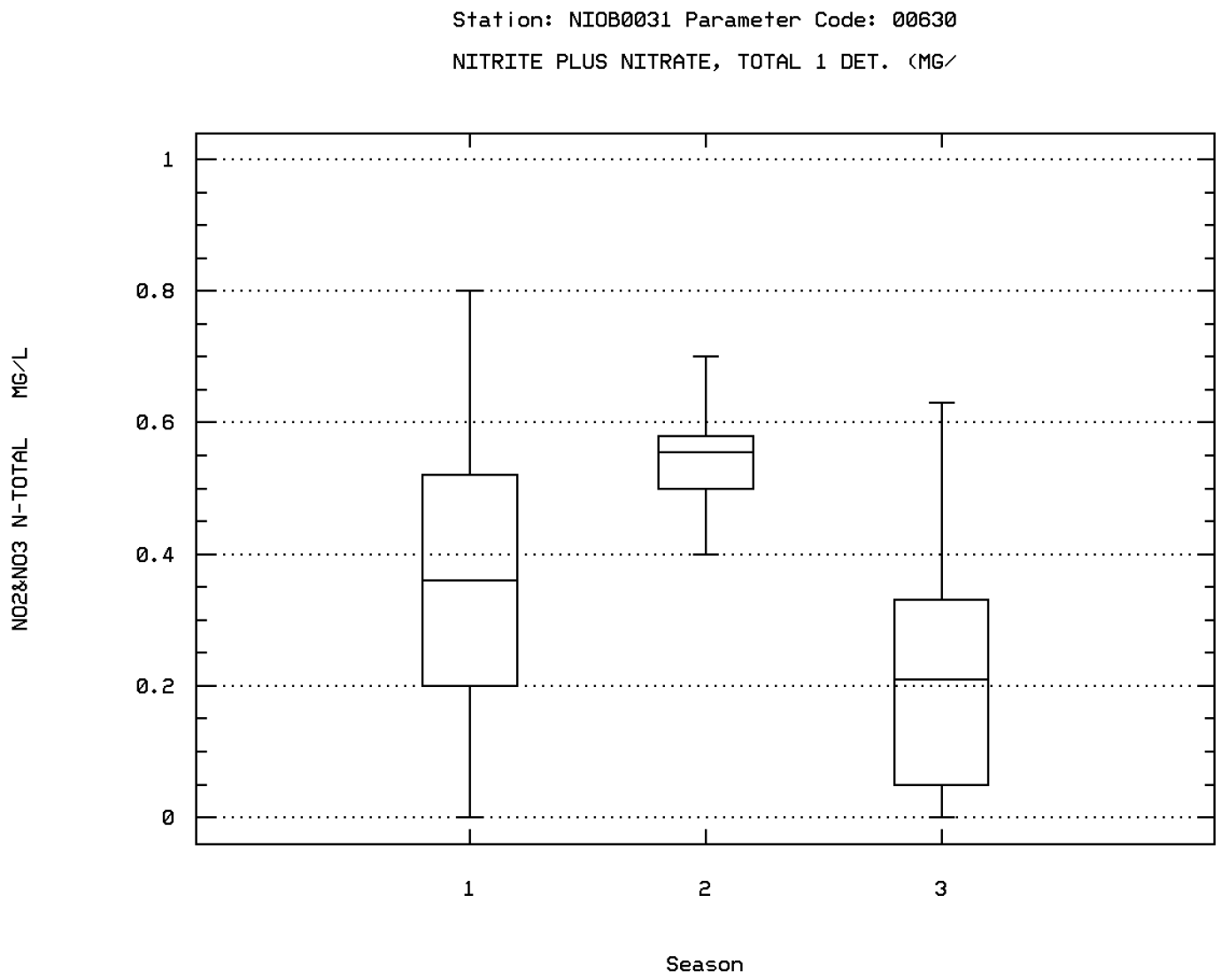
NIOBRARA RIVER AT SPARKS

Station: NIOB0031 Parameter Code: 00300

OXYGEN, DISSOLVED



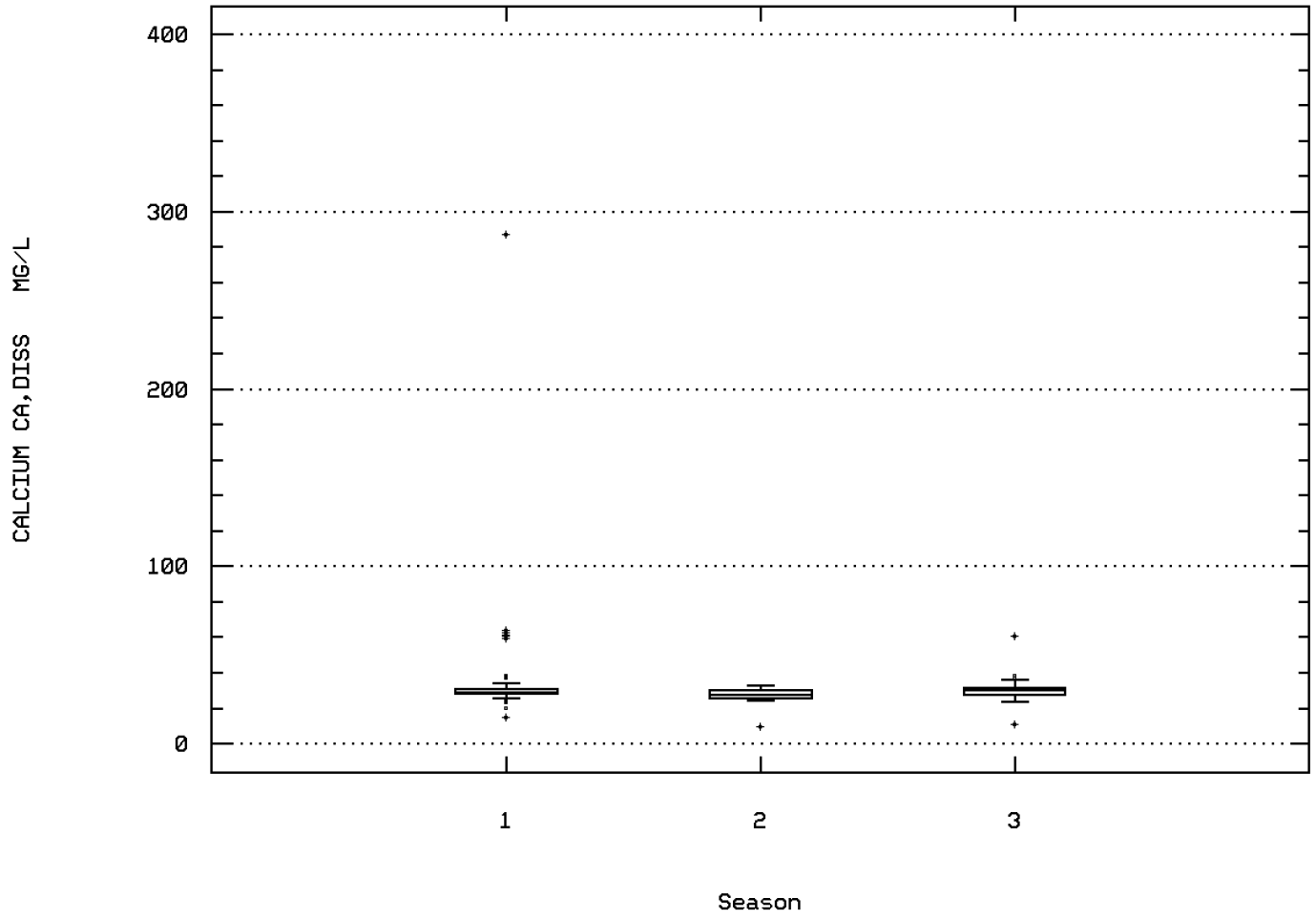
NIOBRARA RIVER AT SPARKS



NIOBRARA RIVER AT SPARKS

Station: NIOB0031 Parameter Code: 00915

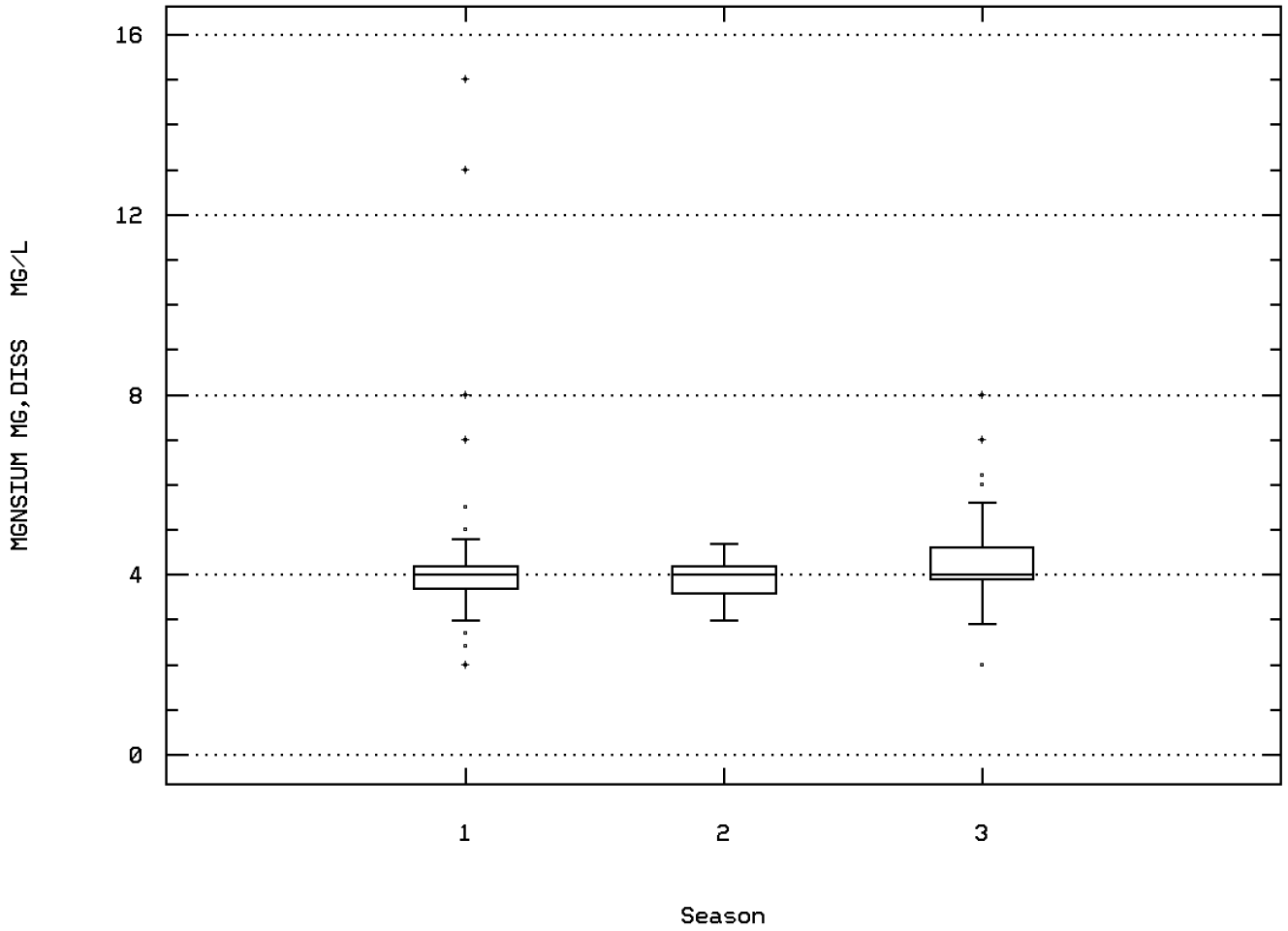
CALCIUM, DISSOLVED (MG/L AS CA)



NIOBRARA RIVER AT SPARKS

Station: NIOB0031 Parameter Code: 00925

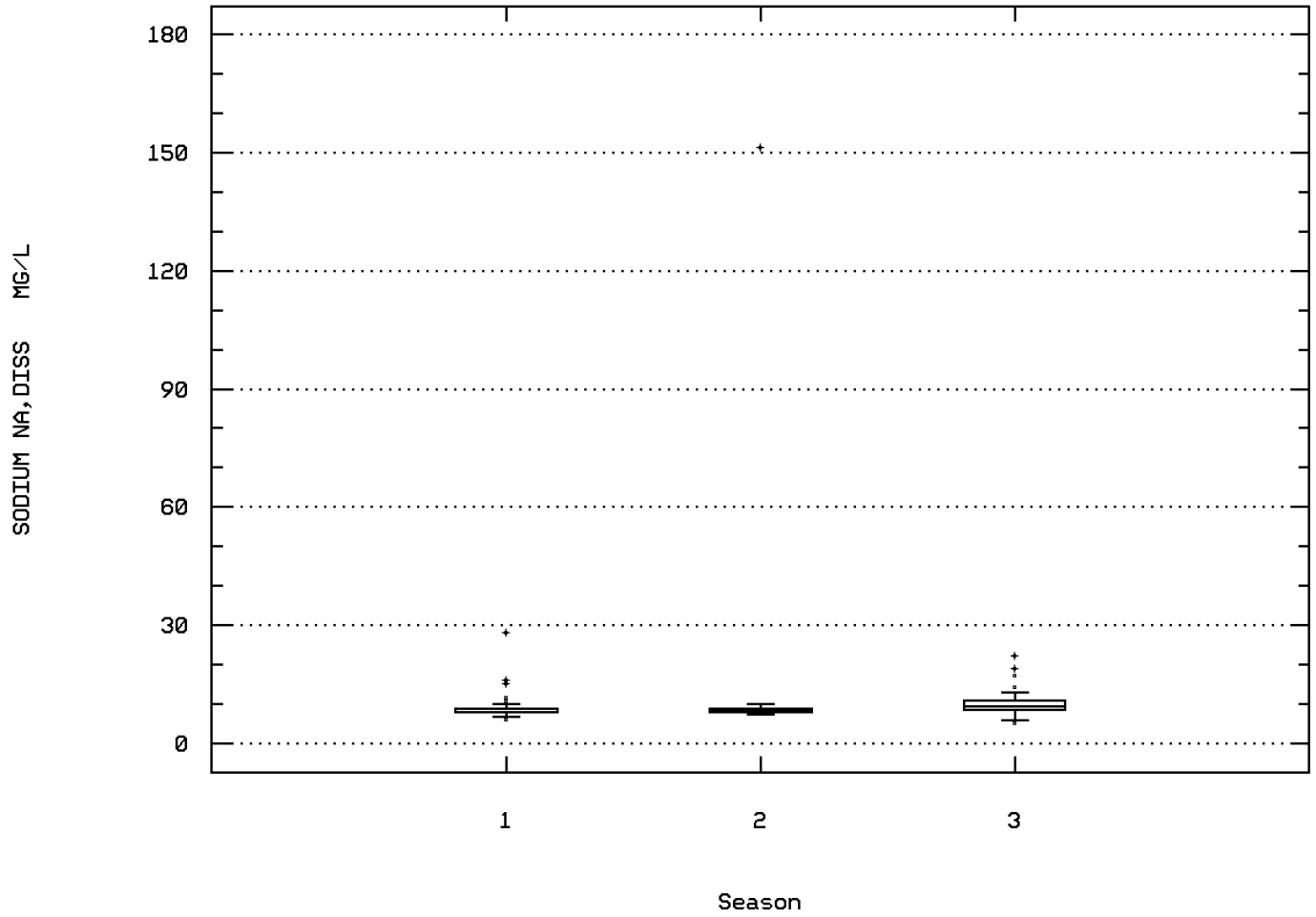
MAGNESIUM, DISSOLVED (MG/L AS MG)



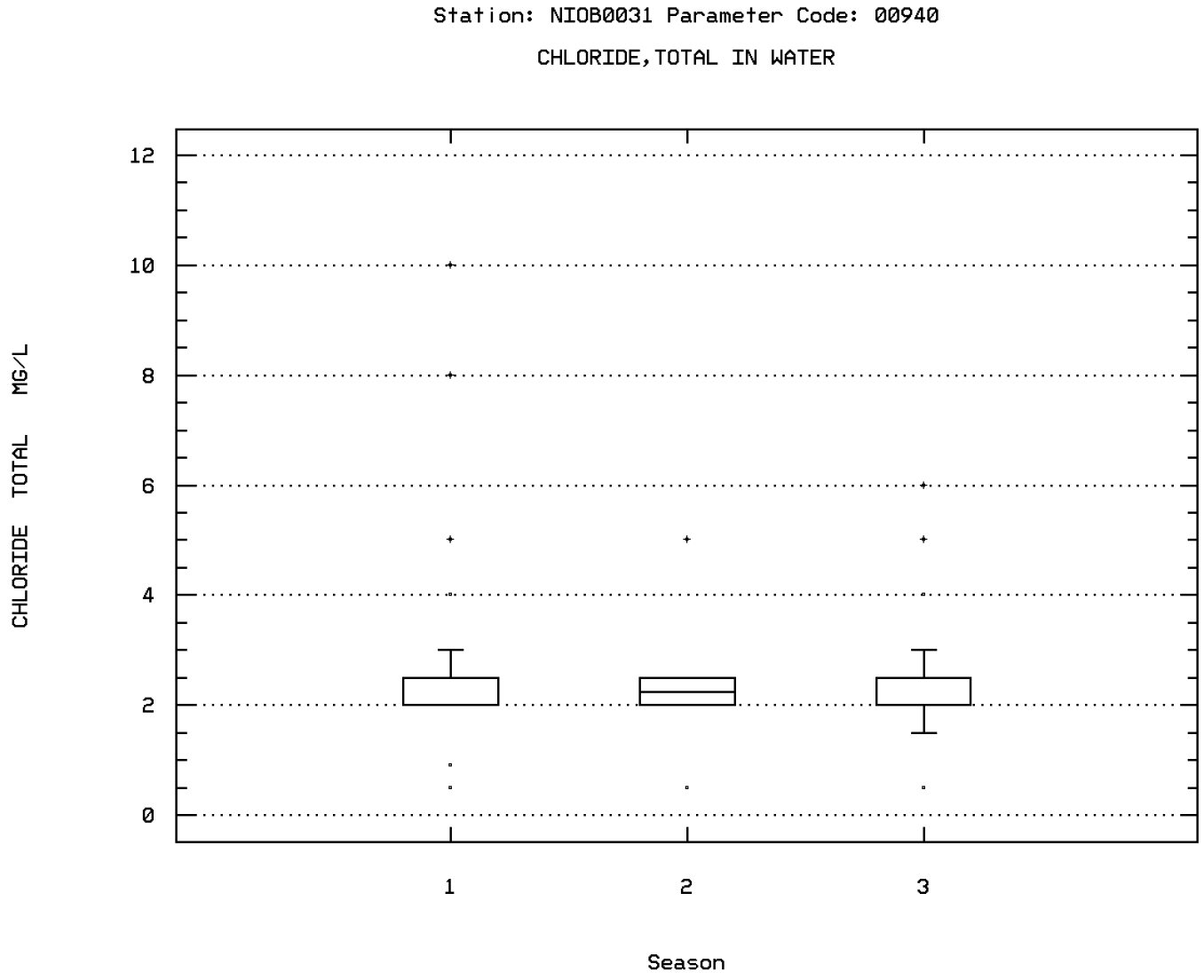
NIOBRARA RIVER AT SPARKS

Station: NIOB0031 Parameter Code: 00930

SODIUM, DISSOLVED (MG/L AS NA)



NIOBRARA RIVER AT SPARKS



NIOBRARA RIVER AT SPARKS

Station Inventory for Station: NIOB0032

NPS Station ID: NIOB0032
LAT/LON: 42.902781/-100.361115
Agency: 112WRD
Date Created: 06/30/76
Location: NIOBRARA RIVER NEAR SPARKS, NEBR.
FIPS State/County: 31031 NEBRASKA/CHERRY
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 06461500
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10150004005
RF1 Mile Point: 20.540
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10150005001000.60
RF3 Mile Point: 1.39
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	227	12.	12.258	30.	0.	87.372	9.347	0.5	2.	21.	24.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/04/82-09/09/93	133	15.5	11.045	36.	-25.	158.506	12.59	3.2	8.25	22.25	31.
00025	BAROMETRIC PRESSURE (MM OF HG)	06/19/91-06/19/91	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	307	793.	816.752	4890.	165.	145617.88	381.599	499.2	614.	921.	1050.
00065	STAGE, STREAM (FEET)	05/02/83-12/13/84	13	2.92	2.978	3.54	2.34	0.107	0.328	2.44	2.805	3.245	3.476
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/82-09/09/93	132	10.	15.39	220.	0.5	607.318	24.644	2.	5.	16.5	30.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/20/80-11/18/80	2	233.5	233.5	239.	228.	60.5	7.778	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/03/75-09/09/93	194	228.	230.01	298.	182.	268.611	16.389	212.	220.	239.25	250.
00400	PH (STANDARD UNITS)	05/04/82-09/09/93	132	8.33	8.291	9.	7.5	0.123	0.351	7.8	8.	8.588	8.707
00400	CONVERTED PH (STANDARD UNITS)	05/04/82-09/09/93	132	8.33	8.15	9.	7.5	0.144	0.379	7.8	8.	8.587	8.707
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	132	0.005	0.007	0.032	0.001	0.	0.006	0.002	0.003	0.01	0.016
00403	PH, LAB, STANDARD UNITS SU	05/04/82-09/09/93	132	8.25	8.273	9.3	7.6	0.053	0.231	8.	8.1	8.4	8.6
00403	CONVERTED PH, LAB, STANDARD UNITS	05/04/82-09/09/93	132	8.247	8.218	9.3	7.6	0.056	0.237	8.	8.1	8.4	8.6
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	132	0.006	0.006	0.025	0.001	0.	0.003	0.003	0.004	0.008	0.01
00417	ALKALINITY,FIXED ENDPOINT TITRATION, USGS LAB MG/L	02/04/87-02/04/87	1	102.	102.	102.	102.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	11/15/90-09/09/93	31	0.02	0.024	0.08	0.005	0.	0.018	0.005	0.01	0.04	0.048
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/15/90-09/09/93	31 ##	0.005	0.008	0.04	0.005	0.	0.007	0.005	0.005	0.01	0.02
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	11/15/90-09/09/93	31	0.2	0.294	1.1	0.1	0.071	0.267	0.1	0.1	0.4	0.78
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/04/82-09/09/93	132	0.4	0.387	2.1	0.025	0.071	0.266	0.05	0.2	0.5	0.6
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/82-09/09/93	121	0.12	0.17	0.99	0.03	0.029	0.17	0.08	0.09	0.17	0.268
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/04/82-09/09/93	121	0.07	0.067	0.46	0.	0.002	0.046	0.03	0.05	0.08	0.098
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/15/90-09/09/93	31	0.06	0.062	0.15	0.005	0.001	0.026	0.03	0.05	0.07	0.098
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/04/82-02/07/86	16	92.	92.938	100.	86.	21.663	4.654	86.	89.5	97.5	99.3
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/04/82-09/09/93	132	30.	30.242	38.	21.	3.864	1.966	28.	29.	31.	32.7
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/04/82-09/09/93	132	4.2	4.27	5.4	3.2	0.156	0.395	3.8	4.	4.5	4.8
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/04/82-09/09/93	132	9.2	9.53	14.	7.7	1.41	1.187	8.4	8.7	10.	11.
00931	SODIUM ADSORPTION RATIO	05/04/82-02/07/86	16	0.4	0.431	0.5	0.4	0.002	0.048	0.4	0.4	0.5	0.5
00932	SODIUM, PERCENT	05/04/82-02/07/86	16	17.	17.	20.	16.	1.467	1.211	16.	16.	17.75	19.3
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/04/82-09/09/93	132	6.5	6.455	8.6	3.4	0.551	0.743	5.63	5.9	6.9	7.37
00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/82-09/09/93	131	2.	1.601	6.	0.05	0.678	0.824	1.	1.	2.	2.
00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/82-09/09/93	131	7.	7.584	16.	2.	4.066	2.016	5.	6.	9.	10.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/04/82-09/09/93	132	0.4	0.353	0.9	0.05	0.008	0.089	0.3	0.3	0.4	0.4
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/04/82-09/09/93	132	52.	51.742	61.	29.	14.742	3.84	47.	50.	54.	56.
01020	BORON, DISSOLVED (UG/L AS B)	05/04/82-09/09/93	131	30.	29.16	70.	10.	56.982	7.549	20.	30.	30.	40.
01046	IRON, DISSOLVED (UG/L AS FE)	05/04/82-09/09/93	132	15.	19.455	190.	1.5	340.353	18.449	7.	10.25	23.	32.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/04/82-09/09/93	132	3.	2.992	19.	0.5	5.267	2.295	0.5	2.	4.	5.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/04/82-02/07/86	16	179.5	179.875	198.	162.	75.317	8.679	166.9	173.75	186.	191.
70302	SOLIDS, DISSOLVED-TONS PER DAY	05/04/82-03/07/83	11	388.	382.273	524.	248.	9895.218	99.475	248.4	287.	463.	523.

** - 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: NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	05/04/82-03/07/83	11	0.24	0.24	0.26	0.2	0.	0.016	0.206	0.23	0.25	0.258
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	06/09/47-08/30/51	5	9.	21.6	48.	8.	351.3	18.743	**	**	**	**
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	06/09/47-06/19/48	6	13.	17.333	34.	1.	177.867	13.337	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	06/09/47-08/30/51	28	12.	17.	60.	4.	220.667	14.855	5.	7.	20.75	43.
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	06/09/47-10/07/49	26	14.5	18.462	52.	4.	183.298	13.539	6.4	8.75	23.25	47.3
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	06/09/47-08/20/53	90	16.5	21.056	65.	5.	203.379	14.261	8.	11.75	26.	42.6
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	06/09/47-08/20/53	90	41.5	43.178	84.	18.	236.665	15.384	25.	30.75	52.25	66.8
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/09/47-08/20/53	80	92.	89.3	99.	40.	95.403	9.767	80.1	85.5	95.	96.
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/09/47-08/20/53	71	100.	99.662	100.	97.	0.484	0.696	99.	100.	100.	100.
70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	06/09/47-06/11/53	17	100.	99.882	100.	99.	0.11	0.332	99.	100.	100.	100.
70347	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 2.00MM	09/12/52-09/12/52	1	100.	100.	100.	100.	0.	0.	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	05/04/82-02/07/86	33	0.46	0.777	3.	0.09	0.705	0.84	0.262	0.325	0.64	2.76
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/09/47-08/20/53	90	657.	1054.222	6420.	140.	1158952.512	1076.547	426.3	525.75	1092.5	2151.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	06/09/47-08/20/53	90	1450.	1998.044	9220.	94.	2493977.414	1579.233	783.5	1137.5	2475.	3900.
80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	11/21/50-09/11/53	24	0.	0.5	4.	0.	0.87	0.933	0.	0.	1.	1.5
80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	11/21/50-09/11/53	25	3.	5.32	35.	0.	58.31	7.636	1.	2.	5.	15.8
80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	11/21/50-09/11/53	25	42.	47.92	81.	14.	342.41	18.504	25.6	36.5	65.5	76.6
80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	11/21/50-09/11/53	25	95.	92.36	100.	72.	63.407	7.963	79.	87.5	99.	100.
80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	12/08/50-09/11/53	21	99.	97.571	100.	89.	10.357	3.218	90.8	96.5	100.	100.
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	12/20/50-06/09/53	13	99.	97.846	100.	94.	4.474	2.115	94.	96.	99.	100.
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	12/20/50-06/09/53	11	99.	99.	100.	97.	1.2	1.095	97.2	98.	100.	100.
80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	10/11/52-10/11/52	1	99.	99.	99.	99.	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: NIOB0032

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	132	1	0.01	64	1	0.02	18	0	0.00	50	0	0.00			
		Other-Lo Lim.	6.5	132	0	0.00	64	0	0.00	18	0	0.00	50	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	132	1	0.01	65	1	0.02	18	0	0.00	49	0	0.00			
		Other-Lo Lim.	6.5	132	0	0.00	65	0	0.00	18	0	0.00	49	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	31	0	0.00	14	0	0.00	4	0	0.00	13	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	132	0	0.00	64	0	0.00	18	0	0.00	50	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	131	0	0.00	64	0	0.00	18	0	0.00	49	0	0.00			
		Drinking Water	250.	131	0	0.00	64	0	0.00	18	0	0.00	49	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	131	0	0.00	64	0	0.00	18	0	0.00	49	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	132	0	0.00	65	0	0.00	18	0	0.00	49	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 1947 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	4	1182.	1278.5	2040.	710.	333369.	577.381	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	06/09/47-08/20/53	4	30.5	26.25	39.	5.	216.917	14.728	**	**	**	**
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	06/09/47-08/20/53	4	49.	45.	58.	24.	214.667	14.652	**	**	**	**
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/09/47-08/20/53	4	85.	82.75	91.	70.	86.25	9.287	**	**	**	**
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/09/47-08/20/53	4	99.	98.75	100.	97.	2.25	1.5	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/09/47-08/20/53	4	2530.	2712.5	4700.	1090.	2272491.667	1507.479	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	06/09/47-08/20/53	4	2375.	2697.5	3950.	2090.	762091.667	872.979	**	**	**	**

** - 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 1948 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	16	838.5	1148.75	3250.	610.	556133.933	745.744	708.	752.5	1063.	2697.
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	06/09/47-08/20/53	16	18.	27.5	61.	12.	323.867	17.996	12.	14.	40.5	61.
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	06/09/47-08/20/53	16	35.5	43.375	74.	20.	376.117	19.394	23.5	27.	65.25	71.9
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/09/47-08/20/53	12	95.	85.5	99.	40.	426.455	20.651	41.2	86.25	96.	98.4
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/09/47-08/20/53	12	99.	99.	100.	97.	0.727	0.853	97.3	99.	99.75	100.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/09/47-08/20/53	16	880.	1635.563	6420.	394.	3257721.329	1804.916	452.1	594.5	1670.	5440.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	06/09/47-08/20/53	16	1910.	2388.938	8390.	963.	3278574.063	1810.683	1030.9	1195.	2835.	5352.

** - 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 1949 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	13	793.	915.385	1710.	660.	124050.923	352.209	668.	700.	930.5	1690.
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	06/09/47-08/20/53	13	22.	24.308	50.	9.	120.064	10.957	10.6	16.5	32.5	43.6
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	06/09/47-08/20/53	13	40.	40.538	62.	22.	141.269	11.886	22.8	32.5	50.	59.6
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/09/47-08/20/53	7	90.	88.429	94.	81.	28.619	5.35	**	**	**	**
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/09/47-08/20/53	3	100.	100.	100.	100.	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/09/47-08/20/53	13	668.	871.923	3070.	284.	568022.244	753.673	314.4	466.	977.	2502.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	06/09/47-08/20/53	13	1300.	1517.077	2920.	550.	673680.41	820.78	628.	813.	2330.	2892.

** - 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 1950 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	8	1.	2.625	11.	0.	14.268	3.777	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	22	875.5	881.091	1580.	250.	57881.42	240.586	572.	801.25	967.75	1047.
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	06/09/47-08/20/53	17	22.	21.765	65.	5.	263.441	16.231	7.4	8.	27.5	52.2
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	06/09/47-08/20/53	17	52.	49.294	84.	18.	351.721	18.754	25.2	31.	64.5	74.4
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/09/47-08/20/53	17	94.	89.824	98.	75.	59.529	7.716	75.8	82.5	96.	96.4
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/09/47-08/20/53	17	100.	99.882	100.	99.	0.11	0.332	99.	100.	100.	100.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/09/47-08/20/53	17	760.	969.176	2160.	140.	319864.029	565.565	396.	565.	1365.	2088.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	06/09/47-08/20/53	17	1620.	2463.176	9220.	94.	4457874.029	2111.368	890.8	1215.	3060.	5548.

** - 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 1951 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	11	23.	18.364	29.5	0.5	109.555	10.467	0.5	9.5	26.5	29.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	21	885.	1070.381	4890.	676.	775390.948	880.563	735.	816.	981.	1014.6
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	06/09/47-08/20/53	14	17.5	20.5	58.	10.	143.192	11.966	11.	14.	23.5	43.5
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	06/09/47-08/20/53	14	46.5	46.714	70.	31.	126.527	11.248	32.5	35.	57.25	64.5
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/09/47-08/20/53	14	92.	91.429	96.	84.	16.264	4.033	84.5	88.75	95.25	96.
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/09/47-08/20/53	9	100.	100.	100.	100.	0.	0.	100.	100.	100.	100.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/09/47-08/20/53	14	637.	996.714	3960.	237.	904943.604	951.285	265.	571.5	1067.5	2930.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	06/09/47-08/20/53	14	1445.	2130.071	7170.	466.	3279378.533	1810.905	620.5	1182.5	2830.	5885.

** - 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 1952 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	4	24.25	19.	27.	0.5	157.167	12.537	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	14	749.5	783.643	1420.	395.	52603.786	229.355	501.5	669.75	874.5	1170.5
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	06/09/47-08/20/53	13	8.	13.462	58.	5.	193.936	13.926	5.8	7.5	13.5	42.4
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	06/09/47-08/20/53	13	31.	35.692	82.	22.	270.731	16.454	22.	24.	40.5	69.2
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/09/47-08/20/53	13	91.	89.462	97.	81.	19.936	4.465	81.8	86.	92.	95.4
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/09/47-08/20/53	13	100.	99.769	100.	98.	0.359	0.599	98.4	100.	100.	100.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/09/47-08/20/53	13	540.	650.923	1560.	210.	105588.244	324.943	305.2	513.	748.5	1305.6
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	06/09/47-08/20/53	13	1210.	1574.462	5980.	224.	2044605.603	1429.897	428.4	939.5	1785.	4508.

** - 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 1953 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	7	20.5	20.5	25.	12.	18.	4.243	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	18	867.5	865.167	1160.	666.	16989.324	130.343	684.9	749.5	957.	1052.
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	06/09/47-08/20/53	13	14.	15.538	37.	8.	56.603	7.523	8.4	11.	17.5	31.
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	06/09/47-08/20/53	13	43.	40.692	57.	29.	69.731	8.35	29.4	32.	45.5	54.2
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/09/47-08/20/53	13	95.	92.154	98.	78.	40.641	6.375	78.8	89.5	96.	97.6
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/09/47-08/20/53	13	100.	99.846	100.	99.	0.141	0.376	99.	100.	100.	100.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/09/47-08/20/53	13	552.	587.231	1100.	222.	45035.359	212.215	303.2	450.	694.	976.8
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	06/09/47-08/20/53	13	1220.	1455.846	3450.	493.	536383.474	732.382	625.4	1004.5	1825.	2846.

** - 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 1975 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	1	772.	772.	772.	772.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/03/75-09/09/93	1	227.	227.	227.	227.	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 1976 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	12	9.25	11.083	22.	0.	65.447	8.09	0.	4.	20.125	21.85
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	12	585.5	603.167	1060.	203.	74715.97	273.342	224.3	421.	880.25	1035.4
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/03/75-09/09/93	12	228.5	226.667	242.	213.	98.424	9.921	213.6	218.	235.	241.4

** - 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 1977 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	10	14.25	13.9	28.	0.5	89.822	9.477	0.5	5.375	21.5	27.65
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	12	776.	742.583	1150.	486.	40116.992	200.292	489.	532.	842.5	1079.8
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/03/75-09/09/93	12	237.	235.417	259.	212.	168.629	12.986	213.8	227.25	244.5	255.7

** - 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 NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	12	13.25	11.667	30.	0.5	119.197	10.918	0.5	0.5	21.	28.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	12	739.	731.583	1350.	411.	75275.174	274.363	427.8	479.25	897.5	1233.9
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/03/75-09/09/93	13	233.	231.308	250.	212.	142.897	11.954	212.	222.5	240.5	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

Annual Analysis for 1979 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	10	18.25	13.75	28.	0.5	107.958	10.39	0.55	1.75	21.625	27.55
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	10	715.	697.3	1040.	449.	34504.678	185.754	452.3	516.5	827.75	1021.7
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/03/75-09/09/93	10	216.	221.6	260.	200.	356.489	18.881	200.9	209.	231.75	258.9

** - 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 1980 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	10	17.	14.25	24.5	0.5	99.403	9.97	0.5	3.5	23.375	24.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	10	757.	740.3	1070.	408.	55833.122	236.29	411.8	513.5	970.	1062.1
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/03/75-09/09/93	10	216.5	218.9	252.	199.	222.1	14.903	199.9	208.	227.25	249.9

** - 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 1981 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	9	16.5	12.889	24.	0.5	91.736	9.578	0.5	1.75	22.	24.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	9	665.	654.333	969.	299.	37819.	194.471	299.	541.	773.	969.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/03/75-09/09/93	9	220.	220.667	286.	182.	856.25	29.262	182.	199.5	227.5	286.

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Annual Analysis for 1982 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	8	17.5	14.25	23.	0.5	71.643	8.464	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/04/82-09/09/93	8	15.25	14.	22.5	3.	49.286	7.02	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	8	666.	707.	1050.	464.	38254.	195.586	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/82-09/09/93	8	15.	33.188	160.	0.5	2737.71	52.323	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/03/75-09/09/93	8	228.	228.75	245.	202.	201.929	14.21	**	**	**	**
00400	PH (STANDARD UNITS)	05/04/82-09/09/93	8	8.	8.038	8.5	7.8	0.046	0.213	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/04/82-09/09/93	8	8.	8.	8.5	7.8	0.047	0.217	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	8	0.01	0.01	0.016	0.003	0.	0.004	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	05/04/82-09/09/93	8	8.1	8.15	8.4	7.9	0.029	0.169	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	05/04/82-09/09/93	8	8.1	8.122	8.4	7.9	0.029	0.172	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	8	0.008	0.008	0.013	0.004	0.	0.003	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/04/82-09/09/93	8	0.45	0.369	0.8	0.05	0.083	0.288	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/82-09/09/93	8	0.405	0.508	0.99	0.12	0.153	0.391	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/04/82-09/09/93	8	0.075	0.075	0.12	0.04	0.001	0.024	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/04/82-09/09/93	8	30.5	30.25	33.	28.	3.357	1.832	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/04/82-09/09/93	8	4.25	4.212	4.4	3.9	0.038	0.196	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/04/82-09/09/93	8	9.5	9.7	11.	8.6	0.834	0.913	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/04/82-09/09/93	8	6.4	6.475	7.2	5.6	0.276	0.526	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/82-09/09/93	8	2.	1.625	2.	1.	0.268	0.518	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/82-09/09/93	8	7.5	7.313	10.	2.5	5.496	2.344	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/04/82-09/09/93	8	0.3	0.338	0.4	0.3	0.003	0.052	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/04/82-09/09/93	8	52.5	52.125	60.	44.	25.554	5.055	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/04/82-09/09/93	7	30.	27.143	30.	20.	23.81	4.88	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/04/82-09/09/93	8	25.	27.375	53.	11.	174.554	13.212	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/04/82-09/09/93	8	2.5	3.063	5.	1.5	2.031	1.425	**	**	**	**

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Annual Analysis for 1983 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	12	7.25	9.25	26.	0.5	78.386	8.854	0.5	1.5	15.5	25.25
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/04/82-09/09/93	12	10.25	10.792	28.	-8.	119.294	10.922	3.	4.75	18.75	27.85
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	12	899.5	924.417	1460.	595.	69552.447	263.728	601.9	676.75	1053.5	1412.
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/82-09/09/93	12	10.	8.917	25.	0.5	74.72	8.644	0.5	0.5	10.	25.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/03/75-09/09/93	12	239.	243.167	269.	228.	169.242	13.009	228.6	235.	253.5	267.2
00400	PH (STANDARD UNITS)	05/04/82-09/09/93	11	8.	8.136	8.7	7.6	0.141	0.375	7.64	7.9	8.6	8.7
00400	CONVERTED PH (STANDARD UNITS)	05/04/82-09/09/93	11	8.	8.012	8.7	7.6	0.157	0.397	7.64	7.9	8.6	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	11	0.01	0.01	0.025	0.002	0.	0.007	0.002	0.003	0.013	0.023
00403	PH, LAB, STANDARD UNITS SU	05/04/82-09/09/93	12	8.25	8.25	8.5	7.9	0.046	0.215	7.93	8.025	8.475	8.5
00403	CONVERTED PH, LAB, STANDARD UNITS	05/04/82-09/09/93	12	8.247	8.201	8.5	7.9	0.049	0.221	7.93	8.025	8.475	8.5
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	12	0.006	0.006	0.013	0.003	0.	0.003	0.003	0.003	0.009	0.012
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/04/82-09/09/93	12	0.45	0.446	0.6	0.05	0.022	0.15	0.155	0.4	0.575	0.6
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/82-09/09/93	12	0.175	0.231	0.9	0.1	0.049	0.221	0.1	0.105	0.24	0.723
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/04/82-09/09/93	12	0.09	0.091	0.14	0.02	0.001	0.035	0.032	0.07	0.125	0.14
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/04/82-09/09/93	12	30.5	31.	34.	29.	2.545	1.595	29.	30.	32.	33.7
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/04/82-09/09/93	12	4.4	4.508	5.2	4.	0.121	0.348	4.03	4.325	4.75	5.14
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/04/82-09/09/93	12	9.55	10.308	13.	8.6	2.686	1.639	8.6	9.	11.75	13.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/04/82-09/09/93	12	5.9	6.425	8.3	5.5	1.046	1.023	5.53	5.6	7.525	8.15
00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/82-09/09/93	12	2.	1.75	2.	1.	0.205	0.452	1.	1.25	2.	2.
00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/82-09/09/93	12	8.	8.583	10.	7.	0.992	0.996	7.3	8.	9.75	10.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/04/82-09/09/93	12	0.4	0.367	0.4	0.3	0.002	0.049	0.3	0.3	0.4	0.4
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/04/82-09/09/93	12	51.	49.75	54.	42.	14.023	3.745	42.6	47.	52.	53.7
01020	BORON, DISSOLVED (UG/L AS B)	05/04/82-09/09/93	12	30.	26.667	40.	20.	42.424	6.513	20.	20.	30.	37.
01046	IRON, DISSOLVED (UG/L AS FE)	05/04/82-09/09/93	12	21.	21.	32.	14.	40.727	6.382	14.	15.25	26.	31.7
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/04/82-09/09/93	12	4.	5.333	19.	3.	20.242	4.499	3.	3.	5.75	15.4

** - 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 1984 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	12	6.	10.167	26.	0.5	101.061	10.053	0.5	0.625	20.375	25.55
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/04/82-09/09/93	12	4.5	9.167	36.	-13.5	212.424	14.575	3.95	5.	25.5	1.35
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	12	831.	822.5	1240.	165.	87477.727	295.766	281.7	605.25	1050.	1186.
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/82-09/09/93	12	30.	28.375	55.	0.5	244.415	15.634	3.35	13.75	38.75	52.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/03/75-09/09/93	12	241.	241.583	265.	223.	135.902	11.658	225.1	232.25	248.75	261.4
00400	PH (STANDARD UNITS)	05/04/82-09/09/93	12	8.15	8.175	8.4	8.	0.017	0.129	8.	8.1	8.3	8.37
00400	CONVERTED PH (STANDARD UNITS)	05/04/82-09/09/93	12	8.147	8.158	8.4	8.	0.017	0.13	8.	8.1	8.3	8.37
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	12	0.007	0.007	0.01	0.004	0.	0.002	0.004	0.005	0.008	0.01
00403	PH, LAB, STANDARD UNITS SU	05/04/82-09/09/93	12	8.3	8.358	9.3	7.9	0.117	0.342	7.96	8.2	8.4	9.09
00403	CONVERTED PH, LAB, STANDARD UNITS	05/04/82-09/09/93	12	8.3	8.272	9.3	7.9	0.125	0.354	7.96	8.2	8.4	9.09
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	12	0.005	0.005	0.013	0.001	0.	0.003	0.001	0.004	0.006	0.011
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/04/82-09/09/93	12	0.45	0.371	0.6	0.05	0.041	0.202	0.05	0.138	0.5	0.57
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/82-09/09/93	12	0.13	0.147	0.29	0.07	0.004	0.067	0.073	0.093	0.185	0.275
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/04/82-09/09/93	12	0.065	0.061	0.1	0.005	0.001	0.026	0.013	0.05	0.078	0.097
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/04/82-09/09/93	12	31.	30.667	32.	29.	0.788	0.888	29.3	30.	31.	32.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/04/82-09/09/93	12	4.7	4.608	5.4	4.1	0.143	0.378	4.13	4.3	4.8	5.25
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/04/82-09/09/93	12	11.	10.792	14.	9.	2.392	1.547	9.03	9.3	12.	13.4
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/04/82-09/09/93	12	7.	6.925	7.7	5.8	0.415	0.644	5.83	6.5	7.5	7.67
00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/82-09/09/93	12	2.	1.833	2.	1.	0.152	0.389	1.	2.	2.	2.
00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/82-09/09/93	12	9.	8.5	10.	6.	1.727	1.314	6.3	7.25	9.75	10.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/04/82-09/09/93	12	0.4	0.458	0.9	0.3	0.023	0.151	0.33	0.4	0.5	0.78
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/04/82-09/09/93	12	51.	50.833	55.	46.	8.697	2.949	46.3	48.25	53.75	54.7
01020	BORON, DISSOLVED (UG/L AS B)	05/04/82-09/09/93	12	30.	29.167	50.	20.	62.879	7.93	20.	22.5	30.	44.
01046	IRON, DISSOLVED (UG/L AS FE)	05/04/82-09/09/93	12	27.	26.833	45.	7.	160.152	12.655	8.5	15.75	39.5	44.4
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/04/82-09/09/93	12	3.5	3.542	7.	0.5	2.884	1.698	0.95	2.25	4.75	6.4

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Annual Analysis for 1985 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	12	12.5	12.125	27.	0.5	110.369	10.506	0.5	0.875	22.75	26.55
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/04/82-09/09/93	12	20.5	10.958	33.	-13.	244.021	15.621	1.15	1.5	31.5	-12.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	12	706.5	715.5	1050.	456.	28399.	168.52	484.8	582.25	830.	996.6
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/82-09/09/93	12	10.	12.083	45.	5.	124.811	11.172	5.	5.	10.	37.5
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/03/75-09/09/93	12	228.	230.	266.	213.	197.818	14.065	213.6	220.5	234.5	258.8
00400	PH (STANDARD UNITS)	05/04/82-09/09/93	12	8.05	8.008	8.6	7.5	0.095	0.309	7.56	7.725	8.25	8.51
00400	CONVERTED PH (STANDARD UNITS)	05/04/82-09/09/93	12	8.047	7.914	8.6	7.5	0.105	0.324	7.56	7.725	8.25	8.51
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	12	0.009	0.012	0.032	0.003	0.	0.008	0.003	0.006	0.019	0.028
00403	PH, LAB, STANDARD UNITS SU	05/04/82-09/09/93	12	8.45	8.433	8.7	8.1	0.046	0.215	8.1	8.3	8.6	8.7
00403	CONVERTED PH, LAB, STANDARD UNITS	05/04/82-09/09/93	12	8.447	8.384	8.7	8.1	0.049	0.221	8.1	8.3	8.6	8.7
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	12	0.004	0.004	0.008	0.002	0.	0.002	0.002	0.003	0.005	0.008
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/04/82-09/09/93	12	0.35	0.342	0.6	0.05	0.044	0.21	0.05	0.125	0.575	0.6
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/82-09/09/93	10	0.09	0.112	0.28	0.03	0.005	0.067	0.035	0.08	0.13	0.268
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/04/82-09/09/93	11	0.06	0.061	0.08	0.04	0.	0.014	0.042	0.05	0.07	0.08
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/04/82-09/09/93	12	30.5	30.083	34.	25.	5.72	2.392	25.9	28.25	31.	33.7
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/04/82-09/09/93	12	4.05	4.092	4.5	3.8	0.054	0.231	3.8	3.9	4.275	4.47
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/04/82-09/09/93	12	8.9	8.975	10.	8.3	0.315	0.561	8.33	8.5	9.475	9.94
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/04/82-09/09/93	12	6.3	6.25	7.	5.4	0.252	0.502	5.46	5.9	6.6	6.97
00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/82-09/09/93	12	1.	1.25	2.	1.	0.205	0.452	1.	1.	1.75	2.
00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/82-09/09/93	12	7.	7.75	12.	6.	2.932	1.712	6.	7.	8.	11.4
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/04/82-09/09/93	12	0.35	0.342	0.4	0.2	0.004	0.067	0.23	0.3	0.4	0.4
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/04/82-09/09/93	12	52.	52.667	58.	47.	6.424	2.535	48.5	52.	53.75	57.1
01020	BORON, DISSOLVED (UG/L AS B)	05/04/82-09/09/93	12	30.	26.667	30.	20.	24.242	4.924	20.	20.	30.	30.
01046	IRON, DISSOLVED (UG/L AS FE)	05/04/82-09/09/93	12	12.	16.667	50.	4.	156.788	12.521	4.6	9.25	23.25	42.8
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/04/82-09/09/93	12	2.	2.625	6.	0.5	3.278	1.811	0.5	0.875	4.	5.7

** - 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 1986 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	12	7.	9.958	23.5	0.5	84.066	9.169	0.5	0.5	20.25	23.2
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/04/82-09/09/93	12	-5.5	8.792	28.	-8.	142.203	11.925	0.3	5.75	18.375	27.85
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	12	799.5	808.25	1160.	455.	49151.114	221.701	477.8	627.75	961.25	1154.
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/82-09/09/93	12	10.	12.5	30.	4.	84.636	9.2	4.	5.	22.5	28.5
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/03/75-09/09/93	12	237.5	235.833	250.	222.	99.97	9.998	222.9	225.25	245.25	248.8
00400	PH (STANDARD UNITS)	05/04/82-09/09/93	12	7.85	7.869	8.4	7.5	0.056	0.236	7.53	7.725	7.98	8.313
00400	CONVERTED PH (STANDARD UNITS)	05/04/82-09/09/93	12	7.847	7.816	8.4	7.5	0.059	0.242	7.53	7.725	7.98	8.313
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	12	0.014	0.015	0.032	0.004	0.	0.008	0.005	0.011	0.019	0.03
00403	PH, LAB, STANDARD UNITS SU	05/04/82-09/09/93	12	8.2	8.217	8.5	7.9	0.025	0.159	7.96	8.1	8.3	8.47
00403	CONVERTED PH, LAB, STANDARD UNITS	05/04/82-09/09/93	12	8.2	8.19	8.5	7.9	0.026	0.161	7.96	8.1	8.3	8.47
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	12	0.006	0.006	0.013	0.003	0.	0.002	0.003	0.005	0.008	0.011
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/04/82-09/09/93	12	0.4	0.367	0.6	0.05	0.037	0.191	0.05	0.225	0.5	0.6
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/82-09/09/93	9	0.12	0.124	0.17	0.06	0.001	0.034	0.06	0.105	0.155	0.17
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/04/82-09/09/93	9	0.07	0.067	0.09	0.04	0.	0.017	0.04	0.05	0.08	0.09
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/04/82-09/09/93	12	31.	30.667	32.	29.	0.788	0.888	29.3	30.	31.	32.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/04/82-09/09/93	12	4.45	4.5	5.2	4.1	0.125	0.354	4.13	4.2	4.75	5.14
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/04/82-09/09/93	12	9.2	9.667	11.	8.6	1.11	1.053	8.63	8.7	11.	11.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/04/82-09/09/93	12	6.55	6.592	8.1	5.5	0.503	0.709	5.62	5.95	7.1	7.8
00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/82-09/09/93	12	2.	1.667	2.	1.	0.242	0.492	1.	1.	2.	2.
00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/82-09/09/93	12	9.	8.667	10.	7.	1.333	1.155	7.	7.25	9.75	10.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/04/82-09/09/93	12	0.4	0.375	0.4	0.3	0.002	0.045	0.3	0.325	0.4	0.4
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/04/82-09/09/93	12	52.5	51.833	57.	46.	13.424	3.664	46.3	49.	54.75	57.
01020	BORON, DISSOLVED (UG/L AS B)	05/04/82-09/09/93	12	30.	31.667	50.	20.	69.697	8.348	20.	30.	37.5	47.
01046	IRON, DISSOLVED (UG/L AS FE)	05/04/82-09/09/93	12	16.5	21.917	55.	12.	179.356	13.392	12.	13.	24.	51.1
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/04/82-09/09/93	12	3.	2.542	4.	0.5	1.157	1.076	0.65	2.	3.	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 1987 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	12	7.75	10.917	23.	1.	70.038	8.369	1.15	2.875	20.25	22.25
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/04/82-09/09/93	12	12.75	12.25	26.5	0.	92.932	9.64	0.	2.25	21.	25.15
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	12	710.5	765.083	1220.	488.	64249.902	253.476	499.4	558.5	904.75	1211.
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/82-09/09/93	12	5.	9.083	27.	2.	66.629	8.163	2.	2.5	12.75	25.2
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/03/75-09/09/93	11	223.	226.364	253.	210.	170.655	13.063	210.6	218.	238.	250.8
00400	PH (STANDARD UNITS)	05/04/82-09/09/93	12	8.045	8.088	8.55	7.68	0.079	0.281	7.695	7.88	8.368	8.514
00400	CONVERTED PH (STANDARD UNITS)	05/04/82-09/09/93	12	8.044	8.01	8.55	7.68	0.086	0.293	7.695	7.88	8.368	8.514
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	12	0.009	0.01	0.021	0.003	0.	0.006	0.003	0.004	0.013	0.02
00403	PH, LAB, STANDARD UNITS SU	05/04/82-09/09/93	12	8.25	8.25	8.6	8.	0.041	0.202	8.	8.025	8.4	8.57
00403	CONVERTED PH, LAB, STANDARD UNITS	05/04/82-09/09/93	12	8.247	8.209	8.6	8.	0.043	0.207	8.	8.025	8.4	8.57
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	12	0.006	0.006	0.01	0.003	0.	0.003	0.003	0.004	0.009	0.01
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/04/82-09/09/93	12	0.45	0.383	0.6	0.05	0.032	0.179	0.05	0.3	0.5	0.57
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/82-09/09/93	12	0.12	0.126	0.26	0.07	0.003	0.051	0.073	0.09	0.145	0.233
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/04/82-09/09/93	11	0.07	0.056	0.1	0.	0.001	0.033	0.001	0.02	0.08	0.096
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/04/82-09/09/93	12	29.	29.833	33.	28.	2.333	1.528	28.	29.	31.	32.4
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/04/82-09/09/93	12	4.2	4.3	5.2	4.	0.12	0.346	4.	4.1	4.525	5.02
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/04/82-09/09/93	12	9.05	9.45	13.	8.3	1.525	1.235	8.36	8.75	9.875	12.07
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/04/82-09/09/93	12	6.4	6.45	7.3	5.8	0.237	0.487	5.8	6.025	6.925	7.21
00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/82-09/09/93	11	1.	1.455	2.	1.	0.273	0.522	1.	1.	2.	2.
00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/82-09/09/93	11	8.	8.273	12.	5.	3.618	1.902	5.4	7.	9.	11.8
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/04/82-09/09/93	12	0.4	0.383	0.6	0.3	0.009	0.094	0.3	0.3	0.4	0.57
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/04/82-09/09/93	12	53.	52.5	57.	48.	6.273	2.505	48.3	50.5	53.75	56.4
01020	BORON, DISSOLVED (UG/L AS B)	05/04/82-09/09/93	12	30.	31.667	40.	30.	15.152	3.892	30.	30.	30.	40.
01046	IRON, DISSOLVED (UG/L AS FE)	05/04/82-09/09/93	12	14.	18.25	50.	8.	129.477	11.379	8.6	12.25	22.25	43.1
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/04/82-09/09/93	12	3.	2.667	6.	0.5	2.561	1.6	0.5	1.25	3.75	5.4

** - 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 NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	12	10.5	11.5	25.	0.5	80.909	8.995	0.5	3.25	21.75	24.4
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/04/82-09/09/93	12	17.5	10.708	28.	-25.	255.748	15.992	7.3	-4.375	25.125	-9.1
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	12	609.5	780.917	1460.	467.	108778.992	329.817	491.3	556.	981.75	1427.
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/82-09/09/93	12	5.	9.	25.	2.	73.091	8.549	2.	3.	15.	25.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/03/75-09/09/93	10	234.5	235.1	269.	200.	398.544	19.964	202.2	222.	249.75	267.3
00400	PH (STANDARD UNITS)	05/04/82-09/09/93	12	8.42	8.41	8.77	7.87	0.084	0.29	7.885	8.27	8.643	8.758
00400	CONVERTED PH (STANDARD UNITS)	05/04/82-09/09/93	12	8.419	8.312	8.77	7.87	0.094	0.307	7.885	8.27	8.642	8.758
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	12	0.004	0.005	0.013	0.002	0.	0.004	0.002	0.002	0.005	0.013
00403	PH, LAB, STANDARD UNITS SU	05/04/82-09/09/93	12	8.2	8.175	8.4	7.9	0.018	0.136	7.93	8.1	8.275	8.37
00403	CONVERTED PH, LAB, STANDARD UNITS	05/04/82-09/09/93	12	8.2	8.155	8.4	7.9	0.019	0.137	7.93	8.1	8.275	8.37
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	12	0.006	0.007	0.013	0.004	0.	0.002	0.004	0.005	0.008	0.012
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/04/82-09/09/93	12	0.4	0.346	0.7	0.05	0.063	0.251	0.05	0.063	0.575	0.7
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/82-09/09/93	8	0.115	0.201	0.67	0.09	0.039	0.197	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/04/82-09/09/93	8	0.04	0.04	0.07	0.	0.001	0.024	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/04/82-09/09/93	12	30.5	30.083	33.	27.	2.992	1.73	27.3	29.	31.	32.7
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/04/82-09/09/93	12	4.4	4.558	5.3	4.	0.206	0.454	4.03	4.225	5.	5.3
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/04/82-09/09/93	12	9.25	9.842	12.	8.6	1.444	1.202	8.66	8.95	10.75	12.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/04/82-09/09/93	12	6.85	6.758	8.6	5.6	0.817	0.904	5.63	5.8	7.4	8.27
00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/82-09/09/93	12	1.	1.667	5.	1.	1.333	1.155	1.	1.	2.	4.1
00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/82-09/09/93	12	8.5	9.25	16.	6.	7.841	2.8	6.3	7.	10.75	14.8
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/04/82-09/09/93	12	0.3	0.35	0.5	0.3	0.005	0.067	0.3	0.3	0.4	0.47
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/04/82-09/09/93	12	52.5	52.75	61.	45.	20.023	4.475	45.9	49.25	56.75	59.8
01020	BORON, DISSOLVED (UG/L AS B)	05/04/82-09/09/93	12	30.	28.333	30.	20.	15.152	3.892	20.	30.	30.	30.
01046	IRON, DISSOLVED (UG/L AS FE)	05/04/82-09/09/93	12	13.5	14.458	32.	1.5	69.794	8.354	3.45	9.	17.75	30.2
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/04/82-09/09/93	12	2.	2.792	9.	0.5	4.703	2.169	0.65	2.	3.	7.5

** - 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

Annual Analysis for 1989 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	12	15.	13.208	27.5	0.5	75.794	8.706	0.5	6.125	19.75	25.7
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/04/82-09/09/93	12	18.75	12.083	33.5	-18.	185.811	13.631	1.75	6.25	23.	-2.55
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	12	567.	667.25	1020.	442.	41134.932	202.817	456.7	497.25	847.75	1000.8
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/82-09/09/93	12	10.	9.667	20.	1.	39.879	6.315	1.6	3.25	15.	18.5
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/03/75-09/09/93	11	219.	214.	233.	196.	143.4	11.975	197.	202.	224.	231.6
00400	PH (STANDARD UNITS)	05/04/82-09/09/93	12	8.57	8.602	9.	8.17	0.061	0.248	8.221	8.442	8.848	8.976
00400	CONVERTED PH (STANDARD UNITS)	05/04/82-09/09/93	12	8.569	8.539	9.	8.17	0.066	0.256	8.221	8.442	8.848	8.976
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	12	0.003	0.003	0.007	0.001	0.	0.002	0.001	0.001	0.004	0.006
00403	PH, LAB, STANDARD UNITS SU	05/04/82-09/09/93	12	8.2	8.3	8.8	8.1	0.058	0.241	8.1	8.1	8.45	8.77
00403	CONVERTED PH, LAB, STANDARD UNITS	05/04/82-09/09/93	12	8.2	8.25	8.8	8.1	0.061	0.247	8.1	8.1	8.45	8.77
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	12	0.006	0.006	0.008	0.002	0.	0.002	0.002	0.004	0.008	0.008
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/04/82-09/09/93	12	0.25	0.321	0.7	0.05	0.042	0.206	0.065	0.2	0.5	0.67
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/82-09/09/93	10	0.12	0.124	0.17	0.08	0.001	0.034	0.081	0.09	0.16	0.169
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/04/82-09/09/93	11	0.05	0.046	0.09	0.01	0.001	0.027	0.01	0.03	0.07	0.086
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/04/82-09/09/93	12	29.	29.083	32.	27.	1.902	1.379	27.3	28.	29.75	31.7
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/04/82-09/09/93	12	4.	4.008	4.3	3.6	0.05	0.223	3.63	3.9	4.2	4.3
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/04/82-09/09/93	12	9.1	9.083	9.9	8.2	0.225	0.475	8.32	8.725	9.375	9.84
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/04/82-09/09/93	12	6.5	6.208	7.	3.4	0.928	0.963	4.12	5.95	6.775	6.97
00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/82-09/09/93	12	1.	1.15	3.	0.8	0.343	0.585	0.86	1.	1.	2.4
00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/82-09/09/93	12	6.	6.333	9.	2.	3.697	1.923	2.9	5.25	7.75	9.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/04/82-09/09/93	12	0.4	0.358	0.4	0.3	0.003	0.051	0.3	0.3	0.4	0.4
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/04/82-09/09/93	12	53.	52.917	57.	50.	5.72	2.392	50.	51.	54.75	56.7
01020	BORON, DISSOLVED (UG/L AS B)	05/04/82-09/09/93	12	30.	28.333	50.	10.	106.061	10.299	13.	20.	30.	47.
01046	IRON, DISSOLVED (UG/L AS FE)	05/04/82-09/09/93	12	14.5	17.333	35.	6.	86.242	9.287	6.9	10.	24.25	34.1
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/04/82-09/09/93	12	2.	2.417	4.	2.	0.447	0.669	2.	2.	3.	3.7

** - 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 1990 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	12	14.25	12.542	23.	0.5	87.521	9.355	0.5	3.125	21.75	22.7
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/04/82-09/09/93	12	20.	12.667	29.5	-12.	160.652	12.675	2.9	8.125	25.375	0.45
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	12	689.	658.917	943.	446.	26481.356	162.731	447.5	482.25	763.75	919.3
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/82-09/09/93	12	10.	12.208	55.	0.5	197.612	14.057	0.95	6.25	12.	42.7
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/03/75-09/09/93	12	223.	223.833	232.	217.	22.879	4.783	217.6	220.25	228.25	231.7
00400	PH (STANDARD UNITS)	05/04/82-09/09/93	12	8.56	8.553	8.95	8.3	0.028	0.168	8.321	8.445	8.605	8.878
00400	CONVERTED PH (STANDARD UNITS)	05/04/82-09/09/93	12	8.56	8.526	8.95	8.3	0.029	0.17	8.321	8.445	8.605	8.878
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	12	0.003	0.003	0.005	0.001	0.	0.001	0.001	0.002	0.004	0.005
00403	PH, LAB, STANDARD UNITS SU	05/04/82-09/09/93	12	8.3	8.3	8.6	8.1	0.024	0.154	8.1	8.2	8.4	8.57
00403	CONVERTED PH, LAB, STANDARD UNITS	05/04/82-09/09/93	12	8.3	8.276	8.6	8.1	0.024	0.156	8.1	8.2	8.4	8.57
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	12	0.005	0.005	0.008	0.003	0.	0.002	0.003	0.004	0.006	0.008
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/04/82-09/09/93	11	0.4	0.386	1.	0.05	0.084	0.289	0.05	0.05	0.5	0.92
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/82-09/09/93	12	0.09	0.103	0.27	0.03	0.004	0.062	0.036	0.065	0.108	0.237
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/04/82-09/09/93	10	0.055	0.057	0.1	0.03	0.001	0.023	0.03	0.038	0.073	0.098
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/04/82-09/09/93	12	29.5	29.25	31.	27.	1.659	1.288	27.3	28.	30.	31.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/04/82-09/09/93	12	3.85	3.942	4.5	3.8	0.048	0.219	3.8	3.8	4.05	4.41
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/04/82-09/09/93	12	8.6	8.617	9.2	8.	0.14	0.374	8.06	8.25	8.95	9.17
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/04/82-09/09/93	12	6.25	6.283	7.	5.7	0.218	0.467	5.7	5.85	6.75	6.94
00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/82-09/09/93	12	1.5	1.654	4.	0.25	1.139	1.067	0.385	0.925	2.	3.7
00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/82-09/09/93	12	6.	6.417	11.	5.	2.992	1.73	5.	5.	7.	10.1
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/04/82-09/09/93	12	0.3	0.25	0.4	0.05	0.011	0.107	0.05	0.2	0.3	0.37
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/04/82-09/09/93	12	52.	53.25	59.	50.	8.568	2.927	50.	51.	55.75	58.4
01020	BORON, DISSOLVED (UG/L AS B)	05/04/82-09/09/93	12	30.	27.5	40.	10.	56.818	7.538	13.	22.5	30.	37.
01046	IRON, DISSOLVED (UG/L AS FE)	05/04/82-09/09/93	12	9.	11.125	27.	1.5	57.006	7.55	2.25	6.	15.5	25.5
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/04/82-09/09/93	12	1.5	2.125	7.	0.5	3.688	1.92	0.5	0.625	3.	6.1

** - 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 1991 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	12	15.75	12.792	25.	0.5	77.93	8.828	0.5	1.875	19.5	23.65
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/04/82-09/09/93	12	21.	10.792	28.5	-18.5	235.248	15.338	3.25	11.625	26.625	-16.25
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	12	687.	670.667	887.	487.	20947.697	144.733	492.7	530.25	801.75	871.7
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/82-09/09/93	12	9.	10.667	28.	5.	40.788	6.387	5.	6.25	12.75	24.1
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/03/75-09/09/93	10	228.5	232.1	263.	211.	252.1	15.878	211.7	223.25	238.75	262.3
00400	PH (STANDARD UNITS)	05/04/82-09/09/93	12	8.6	8.53	8.87	8.1	0.04	0.201	8.175	8.375	8.64	8.816
00400	CONVERTED PH (STANDARD UNITS)	05/04/82-09/09/93	12	8.6	8.484	8.87	8.1	0.043	0.207	8.175	8.375	8.64	8.816
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	12	0.003	0.003	0.008	0.001	0.	0.002	0.002	0.002	0.004	0.007
00403	PH, LAB, STANDARD UNITS SU	05/04/82-09/09/93	12	8.4	8.325	8.6	8.	0.04	0.201	8.03	8.125	8.475	8.6
00403	CONVERTED PH, LAB, STANDARD UNITS	05/04/82-09/09/93	12	8.4	8.282	8.6	8.	0.042	0.205	8.03	8.125	8.475	8.6
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	12	0.004	0.005	0.01	0.003	0.	0.002	0.003	0.003	0.008	0.009
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/04/82-09/09/93	12	0.35	0.494	2.1	0.025	0.299	0.546	0.078	0.2	0.65	1.68
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/82-09/09/93	12	0.13	0.135	0.21	0.07	0.002	0.041	0.076	0.098	0.168	0.201
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/04/82-09/09/93	12	0.065	0.073	0.16	0.04	0.001	0.03	0.043	0.06	0.078	0.139
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/04/82-09/09/93	12	31.	31.167	34.	28.	3.061	1.749	28.3	30.	32.75	33.7
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/04/82-09/09/93	12	4.1	4.175	5.1	3.6	0.148	0.384	3.66	3.925	4.375	4.92
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/04/82-09/09/93	12	9.4	9.467	12.	8.4	0.91	0.954	8.46	8.725	9.9	11.4
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/04/82-09/09/93	12	6.4	6.483	7.3	5.8	0.245	0.495	5.83	6.125	6.85	7.3
00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/82-09/09/93	12	0.9	1.421	3.	0.05	1.242	1.114	0.155	0.6	2.75	3.
00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/82-09/09/93	12	7.	6.917	11.	5.	2.629	1.621	5.	6.	7.75	10.1
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/04/82-09/09/93	12	0.3	0.317	0.4	0.2	0.003	0.058	0.23	0.3	0.375	0.4
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/04/82-09/09/93	12	51.5	52.	58.	48.	9.091	3.015	48.3	49.25	54.	57.4
01020	BORON, DISSOLVED (UG/L AS B)	05/04/82-09/09/93	12	30.	30.	40.	20.	36.364	6.03	20.	30.	30.	40.
01046	IRON, DISSOLVED (UG/L AS FE)	05/04/82-09/09/93	12	11.5	12.5	29.	7.	40.091	6.332	7.	7.25	14.5	26.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/04/82-09/09/93	12	2.	2.083	4.	0.5	1.311	1.145	0.5	1.	3.	3.7

** - 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 1992 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	8	7.25	7.438	19.5	0.5	40.246	6.344	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/04/82-09/09/93	8	8.	5.25	21.5	-1.5	56.286	7.502	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	8	767.	737.375	900.	528.	20425.982	142.919	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/82-09/09/93	7	5.	6.714	15.	2.	19.238	4.386	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/03/75-09/09/93	8	226.5	227.	235.	218.	28.857	5.372	**	**	**	**
00400	PH (STANDARD UNITS)	05/04/82-09/09/93	8	8.5	8.549	8.8	8.3	0.023	0.152	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/04/82-09/09/93	8	8.5	8.526	8.8	8.3	0.024	0.154	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	8	0.003	0.003	0.005	0.002	0.	0.001	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	05/04/82-09/09/93	7	8.2	8.2	8.5	7.9	0.033	0.183	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	05/04/82-09/09/93	7	8.2	8.167	8.5	7.9	0.035	0.186	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	7	0.006	0.007	0.013	0.003	0.	0.003	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/04/82-09/09/93	8	0.45	0.5	1.	0.2	0.06	0.245	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/82-09/09/93	7	0.12	0.113	0.17	0.04	0.002	0.042	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/04/82-09/09/93	8	0.06	0.064	0.11	0.04	0.	0.021	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/04/82-09/09/93	7	30.	30.571	32.	29.	1.286	1.134	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/04/82-09/09/93	7	3.9	3.971	4.2	3.8	0.019	0.138	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/04/82-09/09/93	7	8.5	8.514	9.1	8.1	0.115	0.339	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/04/82-09/09/93	7	6.	5.914	6.6	5.1	0.285	0.534	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/82-09/09/93	7	2.	1.714	3.	1.	0.571	0.756	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/82-09/09/93	7	6.	6.714	10.	6.	2.238	1.496	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/04/82-09/09/93	7	0.3	0.329	0.4	0.3	0.002	0.049	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/04/82-09/09/93	7	51.	51.	53.	49.	2.333	1.528	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/04/82-09/09/93	7	30.	34.286	70.	20.	261.905	16.183	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/04/82-09/09/93	7	14.	14.286	23.	7.	36.571	6.047	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/04/82-09/09/93	7	2.	1.857	3.	0.5	1.06	1.029	**	**	**	**

** - 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

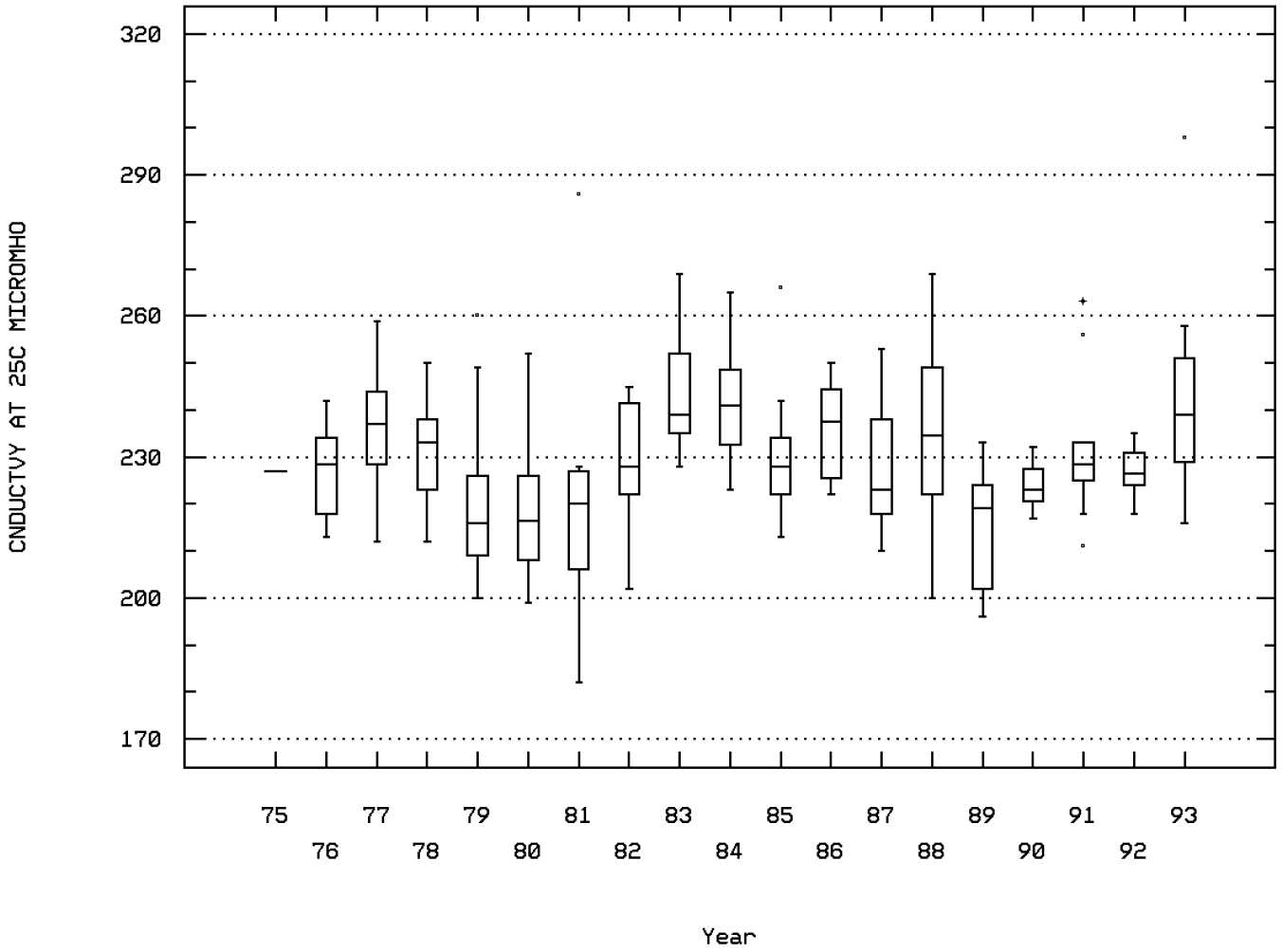
Annual Analysis for 1993 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	9	16.	14.278	28.	0.5	92.194	9.602	0.5	4.75	23.	28.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/04/82-09/09/93	9	21.	15.167	32.	-12.	174.063	13.193	3.5	13.25	28.25	-12.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	9	903.	851.222	1100.	584.	35244.444	187.735	584.	671.	1004.5	1100.
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/82-09/09/93	9	22.	41.	220.	7.	4549.5	67.45	7.	12.5	25.	220.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/03/75-09/09/93	9	239.	244.111	298.	216.	587.611	24.241	216.	228.5	254.5	298.
00400	PH (STANDARD UNITS)	05/04/82-09/09/93	9	8.6	8.6	8.9	8.3	0.057	0.24	8.3	8.35	8.85	8.9
00400	CONVERTED PH (STANDARD UNITS)	05/04/82-09/09/93	9	8.6	8.543	8.9	8.3	0.061	0.247	8.3	8.35	8.85	8.9
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	9	0.003	0.003	0.005	0.001	0.	0.002	0.001	0.001	0.004	0.005
00403	PH, LAB, STANDARD UNITS SU	05/04/82-09/09/93	9	8.1	8.233	8.8	7.6	0.153	0.391	7.6	8.	8.6	8.8
00403	CONVERTED PH, LAB, STANDARD UNITS	05/04/82-09/09/93	9	8.1	8.09	8.8	7.6	0.176	0.419	7.6	8.	8.6	8.8
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	9	0.008	0.008	0.025	0.002	0.	0.007	0.002	0.003	0.01	0.025
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/04/82-09/09/93	9	0.3	0.342	0.9	0.025	0.079	0.281	0.025	0.125	0.55	0.9
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/82-09/09/93	9	0.12	0.189	0.61	0.07	0.029	0.17	0.07	0.105	0.22	0.61
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/04/82-09/09/93	9	0.07	0.113	0.46	0.03	0.018	0.134	0.03	0.045	0.115	0.46
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/04/82-09/09/93	9	31.	30.444	38.	21.	22.778	4.773	21.	28.	33.	38.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/04/82-09/09/93	9	4.3	4.211	4.7	3.2	0.234	0.483	3.2	3.95	4.6	4.7
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/04/82-09/09/93	9	9.9	9.589	11.	7.7	1.061	1.03	7.7	8.9	10.	11.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/04/82-09/09/93	9	6.8	6.478	8.	4.1	1.209	1.1	4.1	6.	7.1	8.
00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/82-09/09/93	9	2.	2.222	6.	1.	2.194	1.481	1.	1.5	2.	6.
00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/82-09/09/93	9	6.	5.333	6.	3.	1.	1.	3.	5.	6.	6.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/04/82-09/09/93	9	0.4	0.356	0.4	0.3	0.003	0.053	0.3	0.3	0.4	0.4
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/04/82-09/09/93	9	50.	48.222	55.	29.	59.444	7.71	29.	47.	53.	55.
01020	BORON, DISSOLVED (UG/L AS B)	05/04/82-09/09/93	9	30.	30.	40.	20.	50.	7.071	20.	25.	35.	40.
01046	IRON, DISSOLVED (UG/L AS FE)	05/04/82-09/09/93	9	22.	36.444	190.	6.	3388.778	58.213	6.	8.5	28.	190.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/04/82-09/09/93	9	3.	4.889	11.	2.	10.861	3.296	2.	2.5	8.	11.

** - 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: NIOB0032 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



NIOBRARA RIVER NEAR SPARKS, NEBR.

Seasonal Analysis for Season #1: 8/01 to 1/14 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	109	8.	10.083	28.	0.	85.465	9.245	0.5	0.5	19.5	23.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/04/82-09/09/93	65	12.	9.085	36.	-25.	180.286	13.427	3.	8.	22.5	17.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	143	718.	726.455	3250.	165.	91977.757	303.278	472.6	549.	833.	960.6
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/82-09/09/93	65	6.	11.031	160.	0.5	426.194	20.644	0.8	3.	10.	25.8
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/03/75-09/09/93	93	228.	228.753	286.	200.	164.71	12.834	213.	222.	235.	243.
00400	PH (STANDARD UNITS)	05/04/82-09/09/93	64	8.375	8.321	9.	7.5	0.135	0.367	7.8	8.	8.6	8.75
00400	CONVERTED PH (STANDARD UNITS)	05/04/82-09/09/93	64	8.375	8.164	9.	7.5	0.16	0.4	7.8	8.	8.6	8.75
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	64	0.004	0.007	0.032	0.001	0.	0.006	0.002	0.003	0.01	0.016
00403	PH, LAB, STANDARD UNITS SU	05/04/82-09/09/93	65	8.3	8.297	9.3	7.9	0.062	0.249	8.	8.1	8.4	8.6
00403	CONVERTED PH, LAB, STANDARD UNITS	05/04/82-09/09/93	65	8.3	8.238	9.3	7.9	0.065	0.256	8.	8.1	8.4	8.6
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	65	0.005	0.006	0.013	0.001	0.	0.003	0.003	0.004	0.008	0.01
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/04/82-09/09/93	64	0.5	0.441	2.1	0.05	0.083	0.289	0.05	0.3	0.6	0.6
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/82-09/09/93	58	0.1	0.151	0.99	0.04	0.029	0.17	0.07	0.09	0.143	0.201
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/04/82-09/09/93	57	0.06	0.061	0.16	0.005	0.001	0.029	0.028	0.045	0.08	0.092
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/04/82-09/09/93	65	30.	30.077	34.	27.	2.26	1.503	28.	29.	31.	32.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/04/82-09/09/93	65	4.1	4.145	4.8	3.6	0.063	0.251	3.8	3.95	4.3	4.44
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/04/82-09/09/93	65	9.	9.082	12.	8.	0.492	0.701	8.36	8.6	9.3	10.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/04/82-09/09/93	65	6.1	6.185	7.8	4.1	0.354	0.595	5.6	5.8	6.5	6.94
00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/82-09/09/93	64	1.	1.461	4.	0.6	0.412	0.642	1.	1.	2.	2.
00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/82-09/09/93	64	7.	7.32	12.	2.	3.312	1.82	5.	6.	8.	9.5
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/04/82-09/09/93	65	0.3	0.33	0.5	0.05	0.005	0.069	0.3	0.3	0.4	0.4
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/04/82-09/09/93	65	52.	52.692	61.	44.	7.185	2.681	50.	51.	54.	56.
01020	BORON, DISSOLVED (UG/L AS B)	05/04/82-09/09/93	64	30.	28.438	50.	10.	45.139	6.719	20.	30.	30.	30.
01046	IRON, DISSOLVED (UG/L AS FE)	05/04/82-09/09/93	65	13.	14.631	53.	1.5	69.76	8.352	6.6	9.5	17.	25.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/04/82-09/09/93	65	2.	2.569	7.	0.5	1.882	1.372	0.8	2.	3.	4.
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	06/09/47-08/20/53	39	13.	17.282	65.	5.	164.787	12.837	7.	8.	22.	31.
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	06/09/47-08/20/53	39	33.	37.564	84.	18.	237.358	15.406	22.	26.	52.	58.
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/09/47-08/20/53	34	89.5	88.235	96.	75.	38.67	6.219	79.5	83.	94.	96.
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/09/47-08/20/53	33	100.	99.697	100.	97.	0.468	0.684	99.	100.	100.	100.
70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	06/09/47-06/11/53	7	100.	99.857	100.	99.	0.143	0.378	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/09/47-08/20/53	39	690.	1003.821	6420.	140.	1119836.835	1058.223	440.	528.	1060.	2070.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	06/09/47-08/20/53	39	1440.	1911.641	9220.	94.	2523924.657	1588.686	745.	1000.	2460.	4050.

** - 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: 1/15 to 3/09 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	28	1.	2.536	9.5	0.5	7.739	2.782	0.5	0.5	5.	7.05
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/04/82-09/09/93	18	-0.75	-0.139	19.	-18.	85.788	9.262	0.	6.875	-1.625	-12.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	33	916.	958.576	1710.	665.	41578.252	203.907	753.	821.	1045.	1178.
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/82-09/09/93	18	10.	11.917	30.	0.5	78.949	8.885	3.65	4.75	16.25	30.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/03/75-09/09/93	27	225.	227.963	298.	196.	442.268	21.03	199.8	216.	242.	252.2
00400	PH (STANDARD UNITS)	05/04/82-09/09/93	18	8.03	8.051	8.5	7.6	0.091	0.301	7.672	7.775	8.315	8.5
00400	CONVERTED PH (STANDARD UNITS)	05/04/82-09/09/93	18	8.024	7.959	8.5	7.6	0.1	0.315	7.672	7.775	8.315	8.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	18	0.009	0.011	0.025	0.003	0.	0.007	0.003	0.005	0.017	0.021
00403	PH, LAB, STANDARD UNITS SU	05/04/82-09/09/93	18	8.1	8.128	8.5	7.9	0.023	0.153	7.99	8.	8.2	8.41
00403	CONVERTED PH, LAB, STANDARD UNITS	05/04/82-09/09/93	18	8.1	8.105	8.5	7.9	0.024	0.154	7.99	8.	8.2	8.41
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	18	0.008	0.008	0.013	0.003	0.	0.002	0.004	0.006	0.01	0.01
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/04/82-09/09/93	18	0.5	0.528	0.9	0.4	0.017	0.132	0.4	0.4	0.6	0.72
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/82-09/09/93	16	0.15	0.195	0.9	0.03	0.04	0.2	0.058	0.095	0.205	0.473
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/04/82-09/09/93	15	0.07	0.08	0.14	0.06	0.	0.021	0.06	0.07	0.08	0.122
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/04/82-09/09/93	18	30.	30.111	38.	26.	6.105	2.471	26.9	29.	31.	32.6
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/04/82-09/09/93	18	4.2	4.267	4.9	3.7	0.135	0.368	3.79	3.975	4.6	4.81
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/04/82-09/09/93	18	9.05	9.328	11.	8.1	0.913	0.955	8.19	8.575	10.	11.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/04/82-09/09/93	18	6.25	6.317	8.1	5.6	0.392	0.626	5.6	5.8	6.575	7.11
00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/82-09/09/93	18	2.	1.558	3.	0.25	0.47	0.686	0.745	1.	2.	2.1

** - 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

Seasonal Analysis for Season #2: 1/15 to 3/09 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/82-09/09/93	18	8.	8.056	10.	6.	2.408	1.552	6.	6.75	10.	10.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/04/82-09/09/93	18	0.4	0.361	0.6	0.2	0.007	0.085	0.29	0.3	0.4	0.42
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/04/82-09/09/93	18	51.5	51.889	57.	46.	10.458	3.234	47.8	49.75	54.25	57.
01020	BORON, DISSOLVED (UG/L AS B)	05/04/82-09/09/93	18	30.	30.556	70.	20.	134.967	11.618	20.	20.	30.	43.
01046	IRON, DISSOLVED (UG/L AS FE)	05/04/82-09/09/93	18	25.	29.889	55.	17.	140.458	11.851	17.9	21.5	42.	50.5
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/04/82-09/09/93	18	4.	5.639	19.	0.5	18.053	4.249	2.75	3.	7.5	11.8
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	06/09/47-08/20/53	5	34.	33.	37.	25.	21.5	4.637	**	**	**	**
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	06/09/47-08/20/53	5	56.	56.2	71.	48.	84.7	9.203	**	**	**	**
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/09/47-08/20/53	5	89.	88.8	96.	81.	40.7	6.38	**	**	**	**
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/09/47-08/20/53	2	100.	100.	100.	100.	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/09/47-08/20/53	5	526.	742.2	1650.	293.	292245.2	540.597	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	06/09/47-08/20/53	5	1480.	1771.	2920.	775.	832805.	912.582	**	**	**	**

** - 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: 3/10 to 7/31 - Station NIOB0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/50-09/09/93	90	19.75	17.917	30.	0.5	47.895	6.921	6.65	13.	22.625	25.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/04/82-09/09/93	50	20.5	17.62	28.5	0.	66.598	8.161	3.5	14.625	23.	27.45
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/47-09/09/93	131	828.	879.595	4890.	395.	214004.904	462.607	528.4	688.	963.	1158.
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/82-09/09/93	49	15.	22.449	220.	2.	980.128	31.307	5.	10.	25.	45.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/03/75-09/09/93	74	230.	232.338	269.	182.	336.008	18.331	210.	219.	248.	258.5
00400	PH (STANDARD UNITS)	05/04/82-09/09/93	50	8.39	8.339	8.95	7.6	0.1	0.317	7.91	8.1	8.6	8.7
00400	CONVERTED PH (STANDARD UNITS)	05/04/82-09/09/93	50	8.39	8.224	8.95	7.6	0.114	0.337	7.91	8.1	8.6	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	50	0.004	0.006	0.025	0.001	0.	0.005	0.002	0.003	0.008	0.012
00403	PH, LAB, STANDARD UNITS SU	05/04/82-09/09/93	49	8.3	8.294	8.8	7.6	0.046	0.214	8.1	8.2	8.4	8.6
00403	CONVERTED PH, LAB, STANDARD UNITS	05/04/82-09/09/93	49	8.3	8.239	8.8	7.6	0.049	0.221	8.1	8.2	8.4	8.6
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/82-09/09/93	49	0.005	0.006	0.025	0.002	0.	0.004	0.003	0.004	0.006	0.008
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/04/82-09/09/93	50	0.2	0.267	1.	0.025	0.05	0.223	0.05	0.05	0.4	0.5
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/82-09/09/93	47	0.14	0.184	0.94	0.03	0.026	0.162	0.09	0.11	0.17	0.286
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/04/82-09/09/93	49	0.07	0.07	0.46	0.	0.004	0.064	0.03	0.045	0.08	0.1
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/04/82-09/09/93	49	31.	30.51	34.	21.	5.255	2.292	28.	29.	32.	33.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/04/82-09/09/93	49	4.3	4.439	5.4	3.2	0.242	0.492	3.9	4.15	4.8	5.2
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/04/82-09/09/93	49	9.9	10.198	14.	7.7	2.126	1.458	8.6	9.1	11.	12.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/04/82-09/09/93	49	6.9	6.863	8.6	3.4	0.618	0.786	6.1	6.6	7.3	7.6
00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/82-09/09/93	49	2.	1.799	6.	0.05	1.064	1.032	1.	1.	2.	3.
00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/82-09/09/93	49	8.	7.755	16.	3.	5.605	2.368	5.	6.	9.	10.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/04/82-09/09/93	49	0.4	0.381	0.9	0.05	0.011	0.106	0.3	0.3	0.4	0.5
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/04/82-09/09/93	49	51.	50.429	60.	29.	23.958	4.895	46.	48.	53.	56.
01020	BORON, DISSOLVED (UG/L AS B)	05/04/82-09/09/93	49	30.	29.592	50.	20.	45.663	6.757	20.	30.	30.	40.
01046	IRON, DISSOLVED (UG/L AS FE)	05/04/82-09/09/93	49	15.	22.02	190.	4.	707.062	26.591	7.	10.5	26.5	32.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/04/82-09/09/93	49	3.	2.582	7.	0.5	2.431	1.559	0.5	2.	3.	5.
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	06/09/47-08/20/53	46	17.5	22.957	61.	8.	229.287	15.142	9.7	14.	26.	57.3
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	06/09/47-08/20/53	46	44.	46.522	82.	20.	202.522	14.231	30.7	35.75	57.25	70.3
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	06/09/47-08/20/53	41	94.	90.244	99.	40.	150.539	12.269	79.4	90.5	96.	97.
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	06/09/47-08/20/53	36	100.	99.611	100.	97.	0.53	0.728	98.7	99.	100.	100.
70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	06/09/47-06/11/53	10	100.	99.9	100.	99.	0.1	0.316	99.1	100.	100.	100.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/09/47-08/20/53	46	657.	1130.87	5020.	210.	1301508.649	1140.837	415.7	523.5	1157.5	3099.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	06/09/47-08/20/53	46	1490.	2095.978	8390.	224.	2705189.844	1644.746	810.5	1160.	2392.5	4145.

** - 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: NIOB0033

NPS Station ID: NIOB0033
LAT/LON: 42.936392/-100.455003
Agency: 21NEB001
Date Created: 05/07/88
Location: BIG BEAVER CREEK
FIPS State/County: 31031 NEBRASKA/CHERRY
Station Type: /TYPA/AMBNT/STREAM/BIO
STORET Station ID(s): NI3153
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id: NENI3-21700
Minor Basin:
ECO Region: 44G
RF1 Index: 10150004
RF1 Mile Point: 0.000
Distance from RF1: 0.70
On/Off RF1:
RF3 Index: 10150004002209.65
RF3 Mile Point: 24.50
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: NIOB0033

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th

******** No Parameter Data at this Station Suitable for Statistical Analysis ********

Station Inventory for Station: NIOB0034

NPS Station ID: NIOB0034
LAT/LON: 42.950004/-100.466670
Agency: 1117MBR
Date Created: 12/15/77
Location: NIOBRARA R
FIPS State/County: 31031 NEBRASKA/CHERRY
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 003049
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 0
Water Body Id:
Minor Basin: NIOBRARA RIVER
ECO Region:
RF1 Index: 10150004
RF1 Mile Point: 0.000
Distance from RF1: 27.70
On/Off RF1:
RF3 Index: 10150004274500.98
RF3 Mile Point: 2.47
Distance from RF3: 0.24
On/Off RF3:
Description:
COUNTY: CHERRY, LAMS STATION CODE: 62000000 NIOBRARA RIVER APPROXIMATELY 2 MI DOWNSTREAM FROM CONFLUENCE WITH MINNE CHADUZA CREEK. SAMPLES COLLECTED FROM EAST THIRD POINT AT THE BUFFALO BRIDGE LOCATED AT SW 1/4 NW 1/4 SEC24 T34N R27W

Parameter Inventory for Station: NIOB0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/08/77-10/11/77	4	8.	8.25	9.	8.	0.25	0.5	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/08/77-10/11/77	4	10.	9.45	10.	7.8	1.21	1.1	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/08/77-10/11/77	4	223.	224.25	232.	219.	30.917	5.56	**	**	**	**
00304	BOD, 2 DAY, 20 DEG C MG/L	10/08/77-10/11/77	4	0.65	0.675	0.9	0.5	0.029	0.171	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	10/08/77-10/11/77	4	1.1	1.1	1.3	0.9	0.027	0.163	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	10/08/77-10/11/77	4	4.5	5.	7.	4.	2.	1.414	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/08/77-10/11/77	4	7.3	7.325	7.4	7.3	0.003	0.05	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/08/77-10/11/77	4	7.3	7.323	7.4	7.3	0.003	0.05	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/08/77-10/11/77	4	0.05	0.048	0.05	0.04	0.	0.005	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/08/77-10/11/77	4	24.	22.25	24.	17.	12.25	3.5	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/08/77-10/11/77	4 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/08/77-10/11/77	4	0.5	0.463	0.6	0.25	0.022	0.149	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/08/77-10/11/77	4	0.42	0.423	0.43	0.42	0.	0.005	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/08/77-10/11/77	4	0.4	0.425	0.7	0.2	0.049	0.222	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/08/77-10/11/77	3	210.	165.	235.	50.	10075.	100.374	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/08/77-10/11/77	3	2.322	2.131	2.371	1.699	0.14	0.375	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			135.13								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/08/77-10/11/77	4	0.06	0.068	0.1	0.05	0.	0.022	**	**	**	**

** - 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: NIOB0034

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/01-1/14---------- Obs	Exceed	Prop.	----------1/15-3/09---------- Obs	Exceed	Prop.	----------3/10-7/31---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	4	0	0.00	4	0	0.00									
00403	PH, LAB	Other-Hi Lim.	9.	4	0	0.00	4	0	0.00									
		Other-Lo Lim.	6.5	4	0	0.00	4	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	4	0	0.00	4	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	3	2	0.67	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: NIOB0035

NPS Station ID: NIOB0035
LAT/LON: 42.884448/-100.468115
Agency: 21NEB001
Date Created: / /
Location: MINNECHADUZA CREEK AT VALENTINE
FIPS State/County: 31031 NEBRASKA/CHERRY
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 300969
RMI-Indexes: 1021500
Within Park Boundary: No
RMI-Miles: 1149.40
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 0
Water Body Id:
Minor Basin: NIOBRARA
ECO Region:
RF1 Index: 10150004006
RF1 Mile Point: 0.100
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10150004000814.35
RF3 Mile Point: 14.50
Distance from RF3: 0.20
On/Off RF3:
Description:
T34N R27W SEC 22 CD CHERRY COUNTY APPROX 3 MILES NE OF VALENTINE ON HWY 12 BR 11-17-78
THE VALENTINE FISH HATCHERY.) NEBRASKA STATE DEPARTMENT OF HEALTH STATION
27W SEC22CD CHERRY COUNTY APPROX 3 MILES NE OF VALENTINE ON HWY 12

Parameter Inventory for Station: NIOB0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-11/16/77	35	17.	15.04	28.	0.	73.607	8.579	2.6	7.	21.	26.7
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/29/68-11/16/77	33	17.8	15.467	30.	-11.	127.502	11.292	3.52	-2.7	26.6	29.6
00032	CLOUD COVER (PERCENT)	08/06/71-12/08/76	19	10.	27.105	100.	0.	1223.099	34.973	0.	0.	50.	90.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/68-11/16/77	35	5.	9.054	43.	1.	96.606	9.829	1.96	2.	12.	23.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-11/16/77	36	310.	306.472	375.	210.	1565.742	39.569	249.4	280.	340.	356.5
00300	OXYGEN, DISSOLVED MG/L	05/15/68-11/16/77	36	9.3	9.519	14.1	7.	2.974	1.724	7.37	7.925	11.05	11.67
00310	BOD, 5 DAY, 20 DEG C MG/L	05/07/69-11/16/77	17	3.2	3.365	11.3	0.1	6.349	2.52	0.9	1.9	4.15	6.74
00340	COD, .25N K2CR2O7 MG/L	03/24/76-11/16/77	15	27.	32.	69.	14.	336.143	18.334	14.	16.	50.	61.8
00400	PH (STANDARD UNITS)	08/29/68-11/16/77	33	8.2	8.179	9.2	6.5	0.289	0.538	7.64	8.	8.4	8.86
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-11/16/77	33	8.2	7.693	9.2	6.5	0.533	0.73	7.64	8.	8.4	8.86
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-11/16/77	33	0.006	0.02	0.316	0.001	0.003	0.057	0.001	0.004	0.01	0.023
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	21	164.	165.286	188.	147.	152.614	12.354	149.2	156.	173.	187.2
00500	RESIDUE, TOTAL (MG/L)	05/15/68-05/07/69	3	342.	326.667	358.	280.	1697.333	41.199	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/29/68-05/07/69	2	64.	64.	104.	24.	3200.	56.569	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-11/16/77	29	226.	225.172	322.	159.	1039.362	32.239	176.	205.	242.5	260.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/24/76-11/16/77	15	17.	29.133	101.	0.	1147.41	33.873	0.	4.	64.	92.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/02/73-11/16/77	16	0.11	0.542	3.5	0.	1.349	1.161	0.	0.001	0.275	3.5
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-11/16/77	34	0.3	0.431	1.3	0.	0.128	0.358	0.05	0.175	0.7	1.
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/15/68-10/04/72	10	0.65	0.74	1.6	0.1	0.285	0.534	0.11	0.2	1.3	1.57
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	03/24/76-11/16/77	15	0.2	0.233	0.5	0.1	0.014	0.118	0.1	0.1	0.3	0.44
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	21	152.	142.048	172.	46.	748.648	27.361	99.4	136.5	153.5	163.6
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-10/29/75	19	48.	45.263	53.	7.	110.76	10.524	33.	44.	51.	53.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-10/29/75	19	6.	7.263	17.	5.	8.205	2.864	5.	6.	8.	12.
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-11/16/77	34	13.	15.618	36.	10.	36.849	6.07	11.5	12.75	16.	27.
00931	SODIUM ADSORPTION RATIO	05/15/68-05/15/75	18	0.5	0.672	1.2	0.4	0.072	0.267	0.4	0.5	0.85	1.11
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/68-10/29/75	20	8.	7.8	10.	5.	1.853	1.361	6.	7.	9.	9.9
00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-11/16/77	36	3.	4.097	32.	0.	27.155	5.211	0.5	2.	4.	6.3
00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/68-10/29/75	20	4.	4.8	10.	0.5	8.563	2.926	0.65	2.25	7.75	9.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/15/68-05/07/69	3	0.45	0.45	0.49	0.41	0.002	0.04	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/29/68-05/07/69	2	65.	65.	100.	30.	2450.	49.497	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/29/68-05/07/69	2 ##	25.	25.	50.	0.	1250.	35.355	**	**	**	**

** - 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: NIOB0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01045	IRON, TOTAL (UG/L AS FE)	05/15/68-05/07/69	3	50.	317.	900.	1.	255517.	505.487	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/15/68-05/15/68	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/15/68-05/07/69	3	50.	83.333	200.	0.	10833.333	104.083	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-11/16/77	16	203.	26529.563	410000.	0.	10462886311.729	102288.251	0.	55.	870.	130000.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-11/16/77	16	2.306	2.234	5.613	0.	2.12	1.456	0.	1.726	2.912	4.484
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			171.531								

** - 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: NIOB0035

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	35	0	0.00	20	0	0.00	1	0	0.00	14	0	0.00			
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	36	0	0.00	20	0	0.00	1	0	0.00	15	0	0.00			
00400	PH	Other-Hi Lim.	9.	33	2	0.06	19	2	0.11	1	0	0.00	13	0	0.00			
		Other-Lo Lim.	6.5	33	1	0.03	19	1	0.05	1	0	0.00	13	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	34	0	0.00	20	0	0.00	1	0	0.00	13	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	36	0	0.00	20	0	0.00	1	0	0.00	15	0	0.00			
		Drinking Water	250.	36	0	0.00	20	0	0.00	1	0	0.00	15	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	20	0	0.00	11	0	0.00	1	0	0.00	8	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	3	0	0.00	1	0	0.00				2	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1 &	0	0.00	1	0	0.00									
		Drinking Water	1300.	2	0	0.00	1	0	0.00				1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	3	1	0.33	1	0	0.00				2	1	0.50			
		Drinking Water	5000.	3	0	0.00	1	0	0.00				2	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	16	8	0.50	9	4	0.44				7	4	0.57			

& - 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: 8/01 to 1/14 - Station NIOB0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-11/16/77	20	15.5	13.875	28.	0.	93.401	9.664	0.2	3.9	22.25	27.45
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/29/68-11/16/77	18	14.7	13.356	30.	-4.4	130.04	11.404	2.89	4.075	23.925	29.1
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/68-11/16/77	20	4.5	8.155	43.	1.	100.348	10.017	2.	2.25	8.65	20.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-11/16/77	20	315.	308.35	360.	248.	1283.397	35.825	251.	280.	340.	354.5
00300	OXYGEN, DISSOLVED MG/L	05/15/68-11/16/77	20	9.6	9.645	12.4	7.2	2.848	1.688	7.43	8.075	11.2	12.21
00310	BOD, 5 DAY, 20 DEG C MG/L	05/07/69-11/16/77	10	3.25	3.82	11.3	1.2	8.528	2.92	1.26	1.95	4.55	10.73
00400	PH (STANDARD UNITS)	08/29/68-11/16/77	19	8.2	8.179	9.2	6.5	0.434	0.659	6.9	8.	8.7	9.1
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-11/16/77	19	8.2	7.539	9.2	6.5	0.867	0.931	6.9	8.	8.7	9.1
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-11/16/77	19	0.006	0.029	0.316	0.001	0.006	0.075	0.001	0.002	0.01	0.126
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	11	161.	161.273	176.	147.	75.618	8.696	147.6	156.	168.	174.8
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-11/16/77	18	223.	223.333	322.	159.	1308.353	36.171	168.9	203.	243.	266.2
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-11/16/77	20	0.5	0.515	1.3	0.	0.128	0.358	0.05	0.225	0.7	1.16
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	11	152.	136.727	158.	46.	1008.418	31.756	61.8	135.	152.	157.2
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-10/29/75	11	47.	42.636	53.	7.	172.655	13.14	12.2	40.	51.	52.6
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-10/29/75	11	6.	7.364	17.	5.	11.055	3.325	5.2	6.	8.	15.2
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-11/16/77	19	13.	14.526	30.	11.	19.152	4.376	12.	13.	15.	20.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/68-10/29/75	11	8.	7.818	10.	5.	2.164	1.471	5.2	7.	9.	9.8
00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-11/16/77	20	3.	4.6	32.	0.	45.174	6.721	0.5	2.	4.75	6.9
00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/68-10/29/75	11	6.	5.091	10.	0.5	11.041	3.323	0.5	2.	8.	9.8

** - 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: 1/15 to 3/09 - Station NIOB0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-11/16/77	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/29/68-11/16/77	1	-11.	-11.	-11.	-11.	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/68-11/16/77	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-11/16/77	1	210.	210.	210.	210.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/15/68-11/16/77	1	14.1	14.1	14.1	14.1	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-11/16/77	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-11/16/77	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-11/16/77	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	1	156.	156.	156.	156.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-11/16/77	1	220.	220.	220.	220.	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-11/16/77	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	1	146.	146.	146.	146.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-10/29/75	1	47.	47.	47.	47.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-10/29/75	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-11/16/77	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/68-10/29/75	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-11/16/77	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/68-10/29/75	1	9.	9.	9.	9.	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

Seasonal Analysis for Season #3: 3/10 to 7/31 - Station NIOB0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-11/16/77	14	19.15	17.564	26.	4.5	35.901	5.992	6.	15.125	21.	25.4
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/29/68-11/16/77	14	22.35	20.071	30.	6.1	60.91	7.804	8.05	12.5	26.875	29.45
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/68-11/16/77	14	7.5	10.771	31.	1.9	98.761	9.938	1.9	2.	20.25	29.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-11/16/77	15	310.	310.4	375.	240.	1486.257	38.552	251.4	280.	340.	366.
00300	OXYGEN, DISSOLVED MG/L	05/15/68-11/16/77	15	9.3	9.047	11.2	7.	1.808	1.345	7.18	7.6	9.9	11.14
00310	BOD, 5 DAY, 20 DEG C MG/L	05/07/69-11/16/77	7	2.4	2.714	5.5	0.1	3.298	1.816	**	**	**	**

** - 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: 3/10 to 7/31 - Station NIOB0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	08/29/68-11/16/77	13	8.2	8.177	8.9	7.6	0.12	0.347	7.64	8.	8.35	8.78
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-11/16/77	13	8.2	8.059	8.9	7.6	0.135	0.368	7.64	8.	8.35	8.78
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-11/16/77	13	0.006	0.009	0.025	0.001	0.	0.007	0.002	0.004	0.01	0.023
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	9	170.	171.222	188.	149.	214.444	14.644	149.	157.	186.	188.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-11/16/77	10	234.5	229.	261.	176.	736.222	27.133	177.4	214.	248.	260.6
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-11/16/77	13	0.2	0.242	0.8	0.	0.05	0.224	0.02	0.05	0.35	0.68
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/68-10/29/75	9	152.	148.111	172.	93.	528.861	22.997	93.	142.5	163.	172.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-10/29/75	7	50.	49.143	53.	43.	13.81	3.716	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-10/29/75	7	6.	7.143	12.	5.	6.143	2.478	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-11/16/77	14	14.	17.286	36.	10.	61.758	7.859	10.	12.	22.5	33.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/68-10/29/75	8	8.	7.875	10.	6.	1.839	1.356	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-11/16/77	15	3.	3.433	10.	0.	5.745	2.397	0.3	2.	4.	7.6
00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/68-10/29/75	8	3.5	3.875	8.	2.	3.839	1.959	**	**	**	**

** - 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: NIOB0036

NPS Station ID: NIOB0036
LAT/LON: 42.900253/-100.468060
Agency: 21NEB001
Date Created: / /
Location: NIOBRARA RIVER AT VALENTINE NE
FIPS State/County: 31031 NEBRASKA/CHERRY
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 301195
RMI-Indexes: 4254280 000050
Within Park Boundary: Yes
RMI-Miles: 1002.84 0030.00
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 0
Water Body Id:
Minor Basin: NIOBRARA
ECO Region:
RF1 Index: 10150004005
RF1 Mile Point: 26.850
Distance from RF1: 16.30
On/Off RF1: ON
RF3 Index: 10150004129900.00
RF3 Mile Point: 0.45
Distance from RF3: 0.51
On/Off RF3:
Description:
T34N R27W SEC22DB CHERRY COUNTY 3.2 MILES NE OF VALENTINE ON HWY 12 AT FORT NIOBRARA NATIONAL WILDLIFE REFUGE ENTRANCE 1-15-77
27W SEC22DB CHERRY COUNTY 3.2 MILES NE OF VALENTINE ON HWY 12 AT

Parameter Inventory for Station: NIOB0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/11/73-10/29/75	8	9.5	12.438	28.	2.	120.246	10.966	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	12/11/73-02/19/75	6	13.25	7.917	30.	-11.1	202.126	14.217	**	**	**	**
00032	CLOUD COVER (PERCENT)	12/11/73-02/19/75	6	27.5	42.5	90.	0.	1457.5	38.177	**	**	**	**
00035	WIND VELOCITY (MILES PER HOUR)	05/15/75-05/15/75	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	12/11/73-10/29/75	9	8.	8.033	15.	1.3	15.735	3.967	1.3	5.	10.5	15.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/11/73-10/29/75	8	217.5	210.625	240.	175.	724.554	26.918	**	**	**	**
00100	TIME OF TRAVEL (HOURS)	05/15/75-05/15/75	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00200	LIGHT,INCIDENT,400-700NM,INTENSITY,UEINSTEINS/M2/S	05/15/75-05/15/75	1	75.	75.	75.	75.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	12/11/73-10/29/75	9	9.6	9.456	12.1	7.7	2.56	1.6	7.7	8.	10.85	12.1
00320	BOD, ULTIMATE 1ST STAGE, 20 DEG C MG/L	05/15/75-05/15/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	03/19/74-10/29/75	8	8.15	8.15	8.5	7.9	0.037	0.193	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/19/74-10/29/75	8	8.147	8.115	8.5	7.9	0.039	0.196	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/19/74-10/29/75	8	0.007	0.008	0.013	0.003	0.	0.003	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/11/73-10/29/75	9	119.	116.111	134.	97.	209.111	14.461	97.	102.	130.	134.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/11/73-10/29/75	9	164.	186.889	258.	138.	1781.111	42.203	138.	154.	228.	258.
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/11/73-10/29/75	9	0.3	0.311	0.6	0.	0.041	0.203	0.	0.15	0.5	0.6
00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/11/73-10/29/75	9	102.	101.889	126.	84.	202.361	14.225	84.	89.	113.	126.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/11/73-10/29/75	9	33.	32.222	39.	27.	21.694	4.658	27.	27.5	36.5	39.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/11/73-10/29/75	9	5.	5.222	7.	4.	0.694	0.833	4.	5.	5.5	7.
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/11/73-10/29/75	9	10.	10.222	11.	9.	0.694	0.833	9.	9.5	11.	11.
00931	SODIUM ADSORPTION RATIO	12/11/73-05/15/75	7	0.5	0.486	0.7	0.4	0.011	0.107	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/11/73-10/29/75	9	6.	6.111	9.	4.	2.111	1.453	4.	5.	7.	9.
00940	CHLORIDE,TOTAL IN WATER MG/L	12/11/73-10/29/75	9	2.	2.222	4.	1.	0.694	0.833	1.	2.	2.5	4.
00945	SULFATE, TOTAL (MG/L AS SO4)	12/11/73-10/29/75	9	5.	5.222	9.	3.	3.444	1.856	3.	4.	6.5	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 time series plot

EPA Water Quality Criteria Analysis for Station: NIOB0036

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	9	0	0.00	5	0	0.00	1	0	0.00	3	0	0.00			
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	9	0	0.00	5	0	0.00	1	0	0.00	3	0	0.00			
00400	PH	Other-Hi Lim.	9.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
		Other-Lo Lim.	6.5	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	9	0	0.00	5	0	0.00	1	0	0.00	3	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	9	0	0.00	5	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	250.	9	0	0.00	5	0	0.00	1	0	0.00	3	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	9	0	0.00	5	0	0.00	1	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: NIOB0037

NPS Station ID: NIOB0037
LAT/LON: 42.941670/-100.483337
Agency: 1117MBR
Date Created: 12/15/77
Location: NIOBRARA R
FIPS State/County: 31031 NEBRASKA/CHERRY
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 003048
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 0
Water Body Id:
Minor Basin: NIOBRARA RIVER
ECO Region:
RF1 Index: 10150004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10150005001100.00
RF3 Mile Point: 1.78
Distance from RF3: 0.21
On/Off RF3:
Description:
COUNTY: CHERRY, LAMS STATION CODE: 62000000 NIOBRARA RIVER ABOVE CONFLUENCE WITH MINNECHADUZA. SAMPLE COLLECTED AT EAST END OF CORNELL POWER DAM LOCATED AT NE1/48 NW1/4, SEC27, T34N, R27W

Parameter Inventory for Station: NIOB0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/08/77-10/11/77	4	8.	8.	9.	7.	0.667	0.816	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/08/77-10/11/77	4	9.65	9.25	10.	7.7	1.177	1.085	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/08/77-10/11/77	4	223.5	225.	231.	222.	16.667	4.082	**	**	**	**
00304	BOD, 2 DAY, 20 DEG C MG/L	10/08/77-10/11/77	4	0.6	0.675	1.1	0.4	0.089	0.299	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	10/08/77-10/11/77	4	1.1	1.05	1.3	0.7	0.063	0.252	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	10/08/77-10/11/77	4	9.5	9.	10.	7.	2.	1.414	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/08/77-10/11/77	4	7.15	7.175	7.5	6.9	0.062	0.25	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/08/77-10/11/77	4	7.147	7.125	7.5	6.9	0.066	0.257	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/08/77-10/11/77	4	0.071	0.075	0.126	0.032	0.002	0.039	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/08/77-10/11/77	4	23.5	24.	26.	23.	2.	1.414	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/08/77-10/11/77	4 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/08/77-10/11/77	4	1.25	1.325	2.2	0.6	0.436	0.66	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/08/77-10/11/77	4	0.45	0.445	0.45	0.43	0.	0.01	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/08/77-10/11/77	4	0.65	0.7	1.	0.5	0.047	0.216	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/08/77-10/11/77	4	170.	147.5	210.	40.	6558.333	80.984	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/08/77-10/11/77	4	2.218	2.09	2.322	1.602	0.116	0.34	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			123.058								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/08/77-10/11/77	4	0.06	0.06	0.06	0.06	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: NIOB0037

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/01-1/14---------- Obs	Exceed	Prop.	----------1/15-3/09---------- Obs	Exceed	Prop.	----------3/10-7/31---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	4	0	0.00	4	0	0.00									
00403	PH, LAB	Other-Hi Lim.	9.	4	0	0.00	4	0	0.00									
		Other-Lo Lim.	6.5	4	0	0.00	4	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	4	0	0.00	4	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	4	2	0.50	4	2	0.50									

& - 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: NIOB0038

NPS Station ID: NIOB0038
LAT/LON: 42.900559/-100.483892
Agency: 1117MBR
Date Created: 11/09/76
Location: MINNECHADUZA CREEK STATION NO 7
FIPS State/County: 31031 NEBRASKA/CHERRY
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 002430
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: NIOBRARA RIVER
ECO Region:
RF1 Index: 10150004006
RF1 Mile Point: 0.100
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10150004000600.00
RF3 Mile Point: 0.52
Distance from RF3: 0.04
On/Off RF3:
Description:
COUNTY: CHERRY, LAMS STATION CODE: 63000005 SAMPLING STATION LOCATED BENEATH HWY 12 BRIDGE LOCATED 3 MILES EAST AND 1 MILE NORTH OF VALENTINE. NW1/4, SE1/4, SEC22, T34N, R27W

Parameter Inventory for Station: NIOB0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/76-10/11/77	44	8.	9.136	15.	6.	5.469	2.339	6.5	7.5	10.875	12.25
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/01/76-10/11/77	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/76-10/11/77	1	336.	336.	336.	336.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	10/04/76-10/11/77	35	9.9	10.234	13.2	8.	2.396	1.548	8.2	8.8	11.2	12.78
00304	BOD, 2 DAY, 20 DEG C MG/L	10/01/76-10/11/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	10/01/76-10/11/77	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	10/01/76-10/11/77	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/01/76-10/11/77	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/01/76-10/11/77	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/76-10/11/77	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/01/76-10/11/77	2	5.	5.	10.	0.	50.	7.071	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/01/76-10/11/77	2	26.865	26.865	53.5	0.23	1418.846	37.668	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/01/76-10/11/77	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/76-10/11/77	1	0.49	0.49	0.49	0.49	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/01/76-10/11/77	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/11/77-10/11/77	1	35.	35.	35.	35.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/11/77-10/11/77	1	610.	610.	610.	610.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/12/77	9	2500.	3291.111	14000.	50.	19244986.111	4386.911	50.	265.	4100.	14000.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/12/77	9	3.398	3.059	4.146	1.699	0.633	0.796	1.699	2.414	3.613	4.146
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1145.288								

** - 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: NIOB0038

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	35	0	0.00	35	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									

& - 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: NIOB0038

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	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									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	9	8	0.89	9	8	0.89									

& - 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: NIOB0039

NPS Station ID: NIOB0039
LAT/LON: 42.897504/-100.502503
Agency: 1117MBR
Date Created: 11/09/76
Location: MINNECHADUZA CREEK STATION NO 6
FIPS State/County: 31031 NEBRASKA/CHERRY
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 002429
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: NIOBRARA RIVER
ECO Region:
RF1 Index: 10150004006
RF1 Mile Point: 0.650
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10150004000601.77
RF3 Mile Point: 1.83
Distance from RF3: 0.04
On/Off RF3:
Description:
COUNTY: CHERRY, LAMS STATION CODE: 63000005 SAMPLING STATION LOCATED AT RM 1.67 AT NW1/4 NW1/4 NE1/4 SEC 28 T34N R27W

Parameter Inventory for Station: NIOB0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/76-10/11/77	44	9.	9.455	15.	6.	4.73	2.175	7.	8.	11.	12.5
00300	OXYGEN, DISSOLVED MG/L	10/04/76-10/11/77	37	9.6	9.692	14.7	6.1	5.308	2.304	6.28	7.75	10.5	13.38
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/12/77	9	2200.	2643.889	11000.	105.	11863523.611	3444.347	105.	270.	3450.	11000.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/12/77	9	3.342	3.034	4.041	2.021	0.471	0.686	2.021	2.431	3.532	4.041
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1081.718								

** - 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: NIOB0039

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	37	0	0.00	37	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	9	8	0.89	9	8	0.89									

& - 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: NIOB0040

NPS Station ID: NIOB0040
LAT/LON: 42.894448/-100.515004
Agency: 1117MBR
Date Created: 11/09/76
Location: MINNECHADUZA CREEK STATION NO 5
FIPS State/County: 31031 NEBRASKA/CHERRY
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 002428
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: NIOBRARA RIVER
ECO Region:
RF1 Index: 10150004006
RF1 Mile Point: 1.550
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10150004000520.36
RF3 Mile Point: 20.36
Distance from RF3: 0.06
On/Off RF3:
Description:
COUNTY: CHERRY, LAMS STATION CODE: 63000005 SAMPLE STATION LOCATED AT RM 2.92 BENEATH COUNTY RD BRIDGE AT NE1/4, NE1/4, SEC29, T34N, R27W

Parameter Inventory for Station: NIOB0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/76-10/11/77	44	9.25	9.943	16.	7.	4.712	2.171	7.75	8.5	11.375	13.25
00300	OXYGEN, DISSOLVED MG/L	10/04/76-10/11/77	37	9.4	8.959	11.1	5.6	2.604	1.614	6.24	7.3	10.2	10.6
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/12/77	8	3047.5	3795.	10700.	25.	17893350.	4230.053	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/12/77	8	2.878	2.814	4.029	1.398	1.295	1.138	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			652.326								

** - 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: NIOB0040

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	37	0	0.00	37	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	8	4	0.50	8	4	0.50									

& - 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: NIOB0041

NPS Station ID: NIOB0041
LAT/LON: 42.833392/-100.517476
Agency: 21NEB001
Date Created: / /
Location: NIOBRARA R AT VALENTINE SE
FIPS State/County: 31031 NEBRASKA/CHERRY
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 300960
RMI-Indexes: 1021500
Within Park Boundary: No
RMI-Miles: 1149.40
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 0
Water Body Id:
Minor Basin: NIOBRARA
ECO Region:
RF1 Index: 10150004009
RF1 Mile Point: 5.460
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10150004001400.00
RF3 Mile Point: 0.33
Distance from RF3: 0.20
On/Off RF3:
Description:
T33N R27W SEC 17 BD CHERRY COUNTY 9.2 MILES S OF NENZEL ON HWY 97 11-17-78
27W SEC17BD CHERRY COUNTY 2.5 MILES SE OF VALENTINE ON HWY 20-83

Parameter Inventory for Station: NIOB0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-10/23/75	19	19.	17.553	31.	1.5	80.358	8.964	2.	12.5	27.	28.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/29/68-05/15/75	16	22.5	18.05	41.	-9.4	216.599	14.717	2.14	-4.55	28.5	36.8
00032	CLOUD COVER (PERCENT)	05/25/70-05/15/75	14	12.5	20.714	85.	0.	668.681	25.859	0.	0.	32.5	72.5
00035	WIND VELOCITY (MILES PER HOUR)	05/15/75-05/15/75	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/68-10/23/75	19	10.	19.053	136.	3.	902.83	30.047	4.	7.	16.	43.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-10/23/75	19	220.	226.526	280.	185.	727.263	26.968	188.	210.	240.	280.
00100	TIME OF TRAVEL (HOURS)	05/15/75-05/15/75	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/15/68-10/23/75	19	8.6	8.889	12.	7.2	1.639	1.28	7.5	7.9	9.7	10.8
00310	BOD, 5 DAY, 20 DEG C MG/L	10/02/73-10/02/73	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00320	BOD, ULTIMATE 1ST STAGE, 20 DEG C MG/L	05/15/75-05/15/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-10/23/75	17	8.1	8.082	8.9	7.1	0.214	0.463	7.1	7.9	8.35	8.66
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-10/23/75	17	8.1	7.8	8.9	7.1	0.299	0.546	7.1	7.9	8.35	8.66
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-10/23/75	17	0.008	0.016	0.079	0.001	0.001	0.024	0.002	0.004	0.013	0.079
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/68-10/23/75	19	108.	107.526	142.	92.	115.819	10.762	98.	100.	112.	120.
00500	RESIDUE, TOTAL (MG/L)	05/15/68-08/29/68	2	426.	426.	592.	260.	55112.	234.759	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/29/68-08/29/68	1	130.	130.	130.	130.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-10/23/75	16	175.	321.375	1696.	140.	165427.05	406.727	142.8	160.	217.	1117.8
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/02/73-10/02/73	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-10/23/75	18	0.2	0.303	1.4	0.	0.12	0.347	0.	0.05	0.425	0.77
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/15/68-10/03/72	8	0.35	0.475	1.2	0.1	0.125	0.354	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/68-10/23/75	19	92.	90.947	112.	28.	294.275	17.154	86.	88.	100.	108.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-10/23/75	17	29.	27.235	32.	3.	44.066	6.638	18.2	27.5	29.5	32.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-10/23/75	17	5.	5.588	13.	4.	4.632	2.152	4.	4.5	6.	8.2
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-10/23/75	18	10.	12.167	26.	9.	21.559	4.643	9.	9.	14.5	20.6
00931	SODIUM ADSORPTION RATIO	05/15/68-05/15/75	16	0.5	0.6	1.2	0.4	0.056	0.237	0.4	0.4	0.7	1.06
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/68-10/23/75	18	6.	6.722	10.	4.	2.918	1.708	4.9	5.	8.	9.1
00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-10/23/75	19	2.	2.079	6.	0.	2.896	1.702	0.5	0.5	3.	5.
00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/68-10/23/75	19	5.	4.842	13.	0.5	11.779	3.432	0.5	2.	6.	11.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/15/68-08/29/68	2	0.34	0.34	0.36	0.32	0.001	0.028	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/29/68-08/29/68	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/15/68-08/29/68	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/15/68-08/29/68	2	400.	400.	700.	100.	180000.	424.264	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/15/68-05/15/68	1	100.	100.	100.	100.	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: NIOB0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01092	ZINC, TOTAL (UG/L AS ZN)	05/15/68-08/29/68	2	200.	200.	300.	100.	20000.	141.421	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-06/06/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/73-06/06/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			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

EPA Water Quality Criteria Analysis for Station: NIOB0041

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	19	1	0.05	10	1	0.10	1	0	0.00	8	0	0.00			
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	19	0	0.00	10	0	0.00	1	0	0.00	8	0	0.00			
00400	PH	Other-Hi Lim.	9.	17	0	0.00	9	0	0.00	1	0	0.00	7	0	0.00			
		Other-Lo Lim.	6.5	17	0	0.00	9	0	0.00	1	0	0.00	7	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	18	0	0.00	10	0	0.00	1	0	0.00	7	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	19	0	0.00	10	0	0.00	1	0	0.00	8	0	0.00			
		Drinking Water	250.	19	0	0.00	10	0	0.00	1	0	0.00	8	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	19	0	0.00	10	0	0.00	1	0	0.00	8	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	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			
01092	ZINC, TOTAL	Fresh Acute	120.	2	1	0.50	1	0	0.00				1	1	1.00			
		Drinking Water	5000.	2	0	0.00	1	0	0.00				1	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	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

Seasonal Analysis for Season #1: 8/01 to 1/14 - Station NIOB0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-10/23/75	10	18.5	18.5	31.	2.	100.778	10.039	2.2	10.375	27.125	30.65
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/68-10/23/75	10	8.5	21.5	136.	3.	1629.833	40.371	3.3	7.5	12.25	124.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-10/23/75	10	220.	224.3	280.	188.	629.344	25.087	189.2	207.5	236.25	276.
00300	OXYGEN, DISSOLVED MG/L	05/15/68-10/23/75	10	8.5	8.85	10.8	7.2	1.647	1.283	7.23	7.725	10.	10.78
00400	PH (STANDARD UNITS)	08/29/68-10/23/75	9	8.1	8.089	8.9	7.1	0.394	0.627	7.1	7.55	8.55	8.9
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-10/23/75	9	8.1	7.663	8.9	7.1	0.598	0.773	7.1	7.55	8.55	8.9
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-10/23/75	9	0.008	0.022	0.079	0.001	0.001	0.033	0.001	0.003	0.045	0.079
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/68-10/23/75	10	106.	105.2	120.	92.	67.733	8.23	92.6	98.	109.5	119.4
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-10/23/75	10	175.	339.2	1696.	140.	229620.622	479.187	142.	160.	238.5	1557.6
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-10/23/75	10	0.25	0.37	1.4	0.	0.171	0.413	0.005	0.05	0.525	1.32
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/68-10/23/75	10	90.	87.9	108.	28.	508.989	22.561	33.8	87.5	102.	108.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-10/23/75	10	29.	25.8	32.	3.	70.4	8.39	4.9	26.5	29.	31.7
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-10/23/75	10	5.	6.1	13.	4.	7.433	2.726	4.	4.	7.	12.4
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-10/23/75	10	10.	10.9	16.	9.	5.211	2.283	9.	9.75	11.75	15.8
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/68-10/23/75	10	7.	6.8	9.	4.	3.289	1.814	4.1	5.	8.25	9.
00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-10/23/75	10	1.	1.45	4.	0.	1.636	1.279	0.05	0.5	2.25	3.9
00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/68-10/23/75	10	5.	4.9	13.	0.5	15.822	3.978	0.5	1.625	6.75	12.6

** - 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 #2: 1/15 to 3/09 - Station NIOB0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-10/23/75	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/68-10/23/75	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-10/23/75	1	185.	185.	185.	185.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/15/68-10/23/75	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-10/23/75	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-10/23/75	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-10/23/75	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/68-10/23/75	1	99.	99.	99.	99.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-10/23/75	1	144.	144.	144.	144.	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-10/23/75	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/68-10/23/75	1	88.	88.	88.	88.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-10/23/75	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-10/23/75	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-10/23/75	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/68-10/23/75	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-10/23/75	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/68-10/23/75	1	6.	6.	6.	6.	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

Seasonal Analysis for Season #3: 3/10 to 7/31 - Station NIOB0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/68-10/23/75	8	19.5	18.375	28.	6.5	38.196	6.18	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/15/68-10/23/75	8	11.5	17.75	43.	4.	187.357	13.688	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/68-10/23/75	8	225.5	234.5	280.	195.	734.857	27.108	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/15/68-10/23/75	8	8.3	8.55	9.7	7.7	0.58	0.762	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/68-10/23/75	7	8.	8.043	8.3	7.8	0.036	0.19	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/68-10/23/75	7	8.	8.008	8.3	7.8	0.038	0.194	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/68-10/23/75	7	0.01	0.01	0.016	0.005	0.	0.004	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/68-10/23/75	8	109.	111.5	142.	100.	174.571	13.213	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/29/68-10/23/75	5	210.	321.2	870.	148.	95045.2	308.294	**	**	**	**

** - 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: 3/10 to 7/31 - Station NIOB0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/15/68-10/23/75	7	0.05	0.15	0.4	0.	0.023	0.153	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/68-10/23/75	8	92.5	95.125	112.	86.	67.839	8.236	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/68-10/23/75	6	29.5	29.667	32.	27.	3.067	1.751	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/68-10/23/75	6	5.	4.833	5.	4.	0.167	0.408	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/68-10/23/75	7	11.	14.429	26.	9.	42.952	6.554	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/68-10/23/75	7	6.	6.857	10.	5.	2.81	1.676	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/68-10/23/75	8	2.	2.75	6.	0.5	4.143	2.035	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/68-10/23/75	8	4.	4.625	11.	2.	9.696	3.114	**	**	**	**

** - 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: NIOB0042

NPS Station ID: NIOB0042
LAT/LON: 42.892504/-100.519448
Agency: 1117MBR
Date Created: 11/09/76
Location: MINNECHADUZA CREEK STATION NO 4
FIPS State/County: 31031 NEBRASKA/CHERRY
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 002427
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: NIOBRARA RIVER
ECO Region:
RF1 Index: 10150004006
RF1 Mile Point: 1.800
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10150004000601.77
RF3 Mile Point: 2.63
Distance from RF3: 0.01
On/Off RF3:
Description:
COUNTY: CHERRY, CITY: VALENTINE, LAMS STATION CODE: 63000005 SAMPLING STATION LOCATED APPROXIMATELY 2000 FEET DOWNSTREAM FROM THE VALENTINE STP OUTFALL AT SW1/4, NE1/4, SEC29, T34N, R27W

Parameter Inventory for Station: NIOB0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/76-10/11/77	43	10.	10.186	15.5	8.	3.786	1.946	8.	9.	11.	13.3
00300	OXYGEN, DISSOLVED MG/L	10/04/76-10/11/77	35	7.8	8.031	10.5	5.5	2.567	1.602	5.86	6.5	9.6	10.1
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/12/77	9	1400.	20398.889	76000.	25.	822617479.861	28681.309	25.	37.5	43000.	76000.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/12/77	9	3.146	3.11	4.881	1.398	2.283	1.511	1.398	1.548	4.605	4.881
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1287.475								

** - 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: NIOB0042

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	35	0	0.00	35	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	9	5	0.56	9	5	0.56									

& - 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: NIOB0043

NPS Station ID: NIOB0043 | LAT/LON: 42.893337/-100.523893 | Agency: 1117MBR | Date Created: 11/09/76
Location: MINNECHADUZA CREEK STATION NO 3 | FIPS State/County: 31031 NEBRASKA/CHERRY
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): 002426
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 10150004 | Depth of Water: 0 | Aquifer:
Major Basin: MISSOURI RIVER | Elevation: 0 | Water Body Id:
Minor Basin: NIOBRARA RIVER | ECO Region:
RF1 Index: 10150004006 | RF1 Mile Point: 2.050 | Distance from RF1: 0.00 | On/Off RF1: ON
RF3 Index: 10150004000602.30 | RF3 Mile Point: 2.29 | Distance from RF3: 0.04 | On/Off RF3:
Description:
COUNTY: CHERRY, CITY: VALENTINE, LAMS STATION CODE: 63000005 SAMPLING STATION LOCATED APPROXIMATELY 1500 FEET DOWNSTREAM FROM THE VALENTINE STP OUTFALL AT SE1/4, NW1/4, SEC29, T34N, R27W

Parameter Inventory for Station: NIOB0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/76-10/11/77	43	10.	10.349	15.5	7.5	3.661	1.913	8.5	9.	11.	13.6
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/01/76-10/11/77	2	6.1	6.1	7.	5.2	1.62	1.273	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/03/76-10/11/77	3	336.	347.333	376.	330.	625.333	25.007	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	10/04/76-10/11/77	37	8.3	8.019	10.6	5.5	2.732	1.653	5.8	6.4	9.45	10.08
00304	BOD, 2 DAY, 20 DEG C MG/L	10/01/76-10/11/77	2	2.5	2.5	3.	2.	0.5	0.707	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	10/01/76-10/11/77	2	4.5	4.5	6.	3.	4.5	2.121	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	10/03/76-10/11/77	3	8.	8.	12.	4.	16.	4.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/03/76-10/11/77	3	10.	10.333	13.	8.	6.333	2.517	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/03/76-10/11/77	3	0.7	0.66	0.8	0.48	0.027	0.164	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/03/76-10/11/77	2	0.75	0.75	0.8	0.7	0.005	0.071	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/03/76-10/11/77	3	0.07	0.13	0.28	0.04	0.017	0.131	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/03/76-10/11/77	3	0.3	0.267	0.4	0.1	0.023	0.153	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/12/77	8	737.5	25821.875	114000.	25.	1698402220.982	41211.676	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/12/77	8	2.511	2.985	5.057	1.398	2.545	1.595	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			966.054								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/09/77-10/09/77	1	76.	76.	76.	76.	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: NIOB0043

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	2	0	0.00	2	0	0.00									
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	37	0	0.00	37	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	3	0	0.00	3	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	8	4	0.50	8	4	0.50									

& - 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: NIOB0044

NPS Station ID: NIOB0044
LAT/LON: 42.891948/-100.525559
Agency: 1117MBR
Date Created: 11/09/76
Location: MINNECHADUZA CREEK STATION NO 2
FIPS State/County: 31031 NEBRASKA/CHERRY
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 002425
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: NIOBRARA RIVER
ECO Region:
RF1 Index: 10150004006
RF1 Mile Point: 2.190
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10150004000602.30
RF3 Mile Point: 2.29
Distance from RF3: 0.01
On/Off RF3:
Description:
COUNTY: CHERRY, CITY: VALENTINE, LAMS STATION CODE: 63000005 SAMPLING STATION LOCATED APPROXIMATELY 1000 FEET DOWNSTREAM FROM THE VALENTINE STP OUTFALL AT NE1/4, SW1/4, NW1/4, SEC29, T34N, R27W

Parameter Inventory for Station: NIOB0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/76-10/11/77	43	10.	10.453	15.5	8.	3.272	1.809	9.	9.	12.	13.
00300	OXYGEN, DISSOLVED MG/L	10/04/76-10/11/77	36	9.	8.364	10.4	6.2	1.958	1.399	6.44	7.1	9.55	10.06
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/12/77	9	1400.	66397.778	265000.	25.	8753748263.194	93561.468	25.	37.5	132500.	265000.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/12/77	9	3.146	3.337	5.423	1.398	3.152	1.776	1.398	1.548	5.122	5.423
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			2171.665								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/08/77-10/11/77	4 ##	8.5	29.875	100.	2.5	2197.729	46.88	**	**	**	**

** - 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: NIOB0044

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/01-1/14---------- Obs	Exceed	Prop.	----------1/15-3/09---------- Obs	Exceed	Prop.	----------3/10-7/31---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	36	0	0.00	36	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	9	5	0.56	9	5	0.56									

& - 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: NIOB0045

NPS Station ID: NIOB0045
LAT/LON: 42.891115/-100.527505
Agency: 1117MBR
Date Created: 11/09/76
Location: MINNECHADUZA CREEK STATION NO 1
FIPS State/County: 31031 NEBRASKA/CHERRY
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 002424
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: NIOBRARA RIVER
ECO Region:
RF1 Index: 10150004006
RF1 Mile Point: 2.290
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10150004000602.30
RF3 Mile Point: 2.29
Distance from RF3: 0.03
On/Off RF3:
Description:
COUNTY: CHERRY, CITY: VALENTINE, LAMS STATION CODE: 63000005 SAMPLING STATION LOCATED APPROXIMATELY 500 FEET DOWNSTREAM FROM THE VALENTINE STP OUTFALL AT SE1/4, SW1/4, NW1/4, SEC29, T34N, R27W

Parameter Inventory for Station: NIOB0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/76-10/11/77	43	10.	10.465	15.	8.	3.171	1.781	9.	9.	12.	13.5
00300	OXYGEN, DISSOLVED MG/L	10/04/76-10/11/77	37	9.1	8.722	10.7	6.7	1.186	1.089	7.1	7.85	9.4	10.12
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/12/77	9	1400.	110728.889	510000.	25.28609873	229.861	169144.534	25.	37.5	172500.	510000.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/12/77	9	3.146	3.416	5.708	1.398	3.59	1.895	1.398	1.548	5.237	5.708
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			2607.697								

** - 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: NIOB0045

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	37	0	0.00	37	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	9	5	0.56	9	5	0.56									

& - 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: NIOB0046

NPS Station ID: NIOB0046
LAT/LON: 42.890281/-100.528615
Agency: 1117MBR
Date Created: 11/09/76
Location: MINNECHADUZA CREEK UPSTREAM STN
FIPS State/County: 31031 NEBRASKA/CHERRY
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 002423
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: NIOBRARA RIVER
ECO Region:
RF1 Index: 10150004006
RF1 Mile Point: 2.400
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10150004000602.56
RF3 Mile Point: 2.55
Distance from RF3: 0.96
On/Off RF3:
Description:
COUNTY: CHERRY, CITY: VALENTINE, LAMS STATION CODE: 63000005 SAMPLING STATION LOCATED APPROXIMATELY 250 FEET UPSTREAM FROM THE VALENTINE STP OUTFALL AT SE1/4, SW1/4, NW1/4, SEC29, T34N, R27W

Parameter Inventory for Station: NIOB0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/76-10/11/77	44	10.	10.352	13.5	7.	3.007	1.734	8.	9.	11.875	13.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/02/76-10/11/77	2	3.75	3.75	4.1	3.4	0.245	0.495	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/02/76-10/05/76	2	332.	332.	340.	324.	128.	11.314	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	10/04/76-10/11/77	36	9.35	9.6	11.1	8.2	0.629	0.793	8.6	9.1	10.35	10.73
00304	BOD, 2 DAY, 20 DEG C MG/L	10/02/76-10/11/77	2	1.	1.	1.	1.	0.	0.	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	10/02/76-10/11/77	2	1.	1.	1.	1.	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	10/02/76-10/11/77	2	10.	10.	14.	6.	32.	5.657	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/02/76-10/11/77	2	7.8	7.8	7.9	7.7	0.02	0.141	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/02/76-10/11/77	2	7.789	7.789	7.9	7.7	0.02	0.142	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/02/76-10/11/77	2	0.016	0.016	0.02	0.013	0.	0.005	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/02/76-10/11/77	2	9.5	9.5	12.	7.	12.5	3.536	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/02/76-10/11/77	2 ##	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/02/76-10/11/77	2 ##	0.3	0.3	0.5	0.1	0.08	0.283	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/02/76-10/11/77	2	0.095	0.095	0.11	0.08	0.	0.021	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/02/76-10/11/77	2 ##	0.075	0.075	0.1	0.05	0.001	0.035	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/12/77	10	61.5	71.	126.	25.	1213.556	34.836	26.2	42.25	104.	125.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/12/77	10	1.786	1.8	2.1	1.398	0.053	0.23	1.415	1.625	2.016	2.097
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			63.033								

** - 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: NIOB0046

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	2	0	0.00	2	0	0.00									
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	36	0	0.00	36	0	0.00									
00403	PH, LAB	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									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	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

EPA Water Quality Criteria Analysis for Station: NIOB0046

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	10	0	0.00	10	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: NIOB0047

NPS Station ID: NIOB0047 | LAT/LON: 42.890281/-100.529448 | Agency: 1117MBR | Date Created: 11/09/76
Location: STATE FISH HATCH RECT RACEWAY EF | FIPS State/County: 31031 NEBRASKA/CHERRY
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): 002432
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 10150004 | Depth of Water: 0 | Aquifer:
Major Basin: MISSOURI RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MINNECHADUZA CREEK | ECO Region:
RF1 Index: 10150004006 | RF1 Mile Point: 2.400 | Distance from RF1: 0.00 | On/Off RF1: ON
RF3 Index: 10150004000602.56 | RF3 Mile Point: 2.55 | Distance from RF3: 0.03 | On/Off RF3:
Description:
COUNTY: CHERRY, CITY: VALENTINE, LAMS STATION CODE: 46350001 RECTANGULAR RACEWAYS WERE LOCATED AT THE SOUTH END OF THE ADMIN BUILDING. THE EFFLUENT FLOWED THROUGH THE POND JUST EAST OF THE ADMIN. SAMPLES WERE COLLECTED FROM THE POND 8 INCH CIP OUTFALL PIPE.

Parameter Inventory for Station: NIOB0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/76-10/06/76	5	10.5	10.5	14.5	8.	7.375	2.716	**	**	**	**
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	10/03/76-10/03/76	1	36.	36.	36.	36.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/01/76-10/05/76	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/76-10/05/76	1	413.	413.	413.	413.	0.	0.	**	**	**	**
00304	BOD, 2 DAY, 20 DEG C MG/L	10/01/76-10/05/76	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	10/01/76-10/05/76	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	10/01/76-10/05/76	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/01/76-10/05/76	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/01/76-10/05/76	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/76-10/05/76	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/01/76-10/05/76	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/01/76-10/05/76	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/01/76-10/05/76	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/76-10/05/76	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/01/76-10/05/76	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/06/76	4	79.	87.625	166.5	26.	3629.896	60.249	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/06/76	4	1.885	1.851	2.221	1.415	0.117	0.343	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			71.03								

** - 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: NIOB0047

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	1	0	0.00	1	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									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	4	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: NIOB0048

NPS Station ID: NIOB0048
LAT/LON: 42.890281/-100.530004
Agency: 1117MBR
Date Created: 11/09/76
Location: STATE FISH HATCH CIRC RACEWAY EF
FIPS State/County: 31031 NEBRASKA/CHERRY
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 002431
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: MINNECHANDUZA CREEK
ECO Region:
RF1 Index: 10150004006
RF1 Mile Point: 2.500
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10150004000601.77
RF3 Mile Point: 2.45
Distance from RF3: 0.13
On/Off RF3:
Description:
COUNTY: CHERRY, CITY: VALENTINE, LAMS STATION CODE: 46350001 THE CIRCULAR RACEWAYS WERE LOCATED JUST W OF THE HATCHERY ADMIN. BLDG.
EFF SAMPLES WERE COLLECTED FROM THE 12" CMP LOCATED ON THE N SIDE OF MINNECHADUZA CR E OF BRIDGE LOCATED 150 FT S OF THE ADMIN. BUILDING.

Parameter Inventory for Station: NIOB0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/76-10/06/76	4	13.	13.	14.	12.	0.833	0.913	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/02/76-10/06/76	2	3.55	3.55	4.	3.1	0.405	0.636	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/02/76-10/06/76	2	300.	300.	310.	290.	200.	14.142	**	**	**	**
00304	BOD, 2 DAY, 20 DEG C MG/L	10/02/76-10/06/76	2 ##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	10/02/76-10/06/76	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	10/02/76-10/06/76	2	7.	7.	10.	4.	18.	4.243	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/02/76-10/06/76	2	8.05	8.05	8.1	8.	0.005	0.071	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/02/76-10/06/76	2	8.047	8.047	8.1	8.	0.005	0.071	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/02/76-10/06/76	2	0.009	0.009	0.01	0.008	0.	0.001	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/02/76-10/06/76	2	10.	10.	11.	9.	2.	1.414	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/02/76-10/06/76	2 ##	0.3	0.3	0.4	0.2	0.02	0.141	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/02/76-10/06/76	2	0.65	0.65	1.	0.3	0.245	0.495	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/02/76-10/06/76	2 ##	0.03	0.03	0.04	0.02	0.	0.014	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/02/76-10/06/76	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/06/76	4	23.	57.375	166.5	17.	5303.229	72.823	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/06/76	4	1.36	1.543	2.221	1.23	0.209	0.457	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			34.914								

** - 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: NIOB0048

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	2	0	0.00	2	0	0.00									
00403	PH, LAB	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									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00	2	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	4	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: NIOB0049

NPS Station ID: NIOB0049
LAT/LON: 42.875281/-100.533338
Agency: 1117MBR
Date Created: 11/09/76
Location: STATE FISH HATCHERY RESERVOIR
FIPS State/County: 31031 NEBRASKA/CHERRY
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 002422
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10150004
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: MINNECHADUZA CREEK
ECO Region:
RF1 Index: 10150004006
RF1 Mile Point: 3.090
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10150004000602.30
RF3 Mile Point: 2.29
Distance from RF3: 0.02
On/Off RF3:
Description:
COUNTY: CHERRY, CITY: VALENTINE, LAMS STATION CODE: 41400102 STATE FISH HATCHERY WATER RESERVOIR LOCATED SW1/4, NW1/4, SEC29, T34N, R27W. SAMPLES COLLECTED AT EAST OUTLET STRUCTURE ON SOUTH SIDE OF RESERVOIR.

Parameter Inventory for Station: NIOB0049

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/76-10/11/77	9	13.	13.611	25.	10.	21.674	4.655	10.	10.	14.5	25.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/11/77	9	50.	597.444	5000.	16.	2726173.778	1651.113	16.	26.5	75.	5000.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/02/76-10/11/77	9	1.699	1.846	3.699	1.204	0.54	0.735	1.204	1.41	1.866	3.699
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			70.135								

** - 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: NIOB0049

				Total	Exceed	Prop.	----------8/01-1/14----------			----------1/15-3/09----------			----------3/10-7/31----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	8 &	0	0.00	8	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: NIOB0050

NPS Station ID: NIOB0050 LAT/LON: 42.885559/-100.553059 Agency: 1117MBR Date Created: 11/26/94
Location: VALENTINE MILL LAKE NW OF VALENTINE, NEBRASKA. FIPS State/County: 31031 NEBRASKA/CHERRY
Station Type: /TYPA/AMBNT/FISH/LAKE STORET Station ID(s): 008734
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10150004 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 10150004 RF1 Mile Point: 0.000 Distance from RF1: 14.40 On/Off RF1:
RF3 Index: 10150004276200.00 RF3 Mile Point: 0.54 Distance from RF3: 0.38 On/Off RF3:
Description:

Parameter Inventory for Station: NIOB0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
82655	FISH LENGTH, TOTAL CM	08/26/94-09/21/94	10	39.55	39.78	51.1	28.8	80.335	8.963	28.81	31.825	48.3	51.06
82656	FISH, WHOLE, WET WEIGHT GRAM	08/26/94-09/21/94	10	867.5	988.2	2000.	360.	326002.4	570.966	365.	509.	1437.5	1970.

** - 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

********** No EPA Water Quality Criteria exist to compare against the data at this station. **********

EPA Water Quality Criteria Analysis for Entire NIOB Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	201	12	0.06	108	7	0.06	12	0	0.00	81	5	0.06			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	16	0	0.00	16	0	0.00									
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Fresh Acute	4.	3	0	0.00							3	0	0.00			
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	995	0	0.00	605	0	0.00	80	0	0.00	310	0	0.00			
00400	PH	Other-Hi Lim.	9.	1174	6	0.01	528	5	0.01	124	0	0.00	522	1	0.00			
		Other-Lo Lim.	6.5	1174	1	0.00	528	1	0.00	124	0	0.00	522	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	753	2	0.00	307	1	0.00	86	0	0.00	360	1	0.00			
		Other-Lo Lim.	6.5	753	16	0.02	307	0	0.00	86	0	0.00	360	16	0.04			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	61	0	0.00	28	0	0.00	8	0	0.00	25	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	4	0	0.00	2	0	0.00				2	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	815	0	0.00	332	0	0.00	77	0	0.00	406	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	541	0	0.00	258	0	0.00	63	0	0.00	220	0	0.00			
00720	CYANIDE, TOTAL	Fresh Acute	0.022	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	0.2	2	0	0.00	1	0	0.00				1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1408	0	0.00	597	0	0.00	147	0	0.00	664	0	0.00			
		Drinking Water	250.	1408	0	0.00	597	0	0.00	147	0	0.00	664	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	754	0	0.00	367	0	0.00	77	0	0.00	310	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	623	2	0.00	295	2	0.01	69	0	0.00	259	0	0.00			
01000	ARSENIC, DISSOLVED	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			
01002	ARSENIC, TOTAL	Fresh Acute	360.	20	0	0.00	13	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	50.	20	0	0.00	13	0	0.00	1	0	0.00	6	0	0.00			
01005	BARIUM, DISSOLVED	Drinking Water	2000.	2	0	0.00	1	0	0.00				1	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	19	0	0.00	13	0	0.00				6	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	4.	1 &	0	0.00							1	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	20	0	0.00	13	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	4.	1 &	1	1.00				1	1	1.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	3	0	0.00	3	0	0.00									
		Drinking Water	5.	3	0	0.00	3	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	21	0	0.00	14	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	5.	21	0	0.00	14	0	0.00	1	0	0.00	6	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			
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	21	0	0.00	14	0	0.00	1	0	0.00	6	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	4	1	0.25	3	1	0.33				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.	31 &	2	0.06	20	1	0.05	1	1	1.00	10	0	0.00			
		Drinking Water	1300.	36	0	0.00	20	0	0.00	1	0	0.00	15	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	15.	3	1	0.33	2	0	0.00				1	1	1.00			
01051	LEAD, TOTAL	Fresh Acute	82.	21	0	0.00	14	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	15.	21	1	0.05	14	0	0.00	1	1	1.00	6	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.	20	0	0.00	13	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	100.	20	0	0.00	13	0	0.00	1	0	0.00	6	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	100.	4	0	0.00	2	0	0.00	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.	5	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5000.	5	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	41	8	0.20	22	2	0.09	1	0	0.00	18	6	0.33			
		Drinking Water	5000.	41	0	0.00	22	0	0.00	1	0	0.00	18	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.	21	0	0.00	14	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	50.	21	0	0.00	14	0	0.00	1	0	0.00	6	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	643 &	207	0.32	322	110	0.34	70	12	0.17	251	85	0.34			

& - 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 NIOB Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-1/14 Obs	8/01-1/14 Exceed	8/01-1/14 Prop.	1/15-3/09 Obs	1/15-3/09 Exceed	1/15-3/09 Prop.	3/10-7/31 Obs	3/10-7/31 Exceed	3/10-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31648	E. COLI, MTEC, MF	Other	126.	83	17	0.20	35	7	0.20	12	0	0.00	36	10	0.28			
39055	SIMAZINE IN WHOLE WATER	Drinking Water	4.	18	0	0.00	11	0	0.00	1	0	0.00	6	0	0.00			
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	0.2	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	2.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39388	ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute	0.22	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	2.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	3.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	0.4	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	0.2	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	17	0	0.00	10	0	0.00	1	0	0.00	6	0	0.00			
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE	Drinking Water	3.	18	0	0.00	11	0	0.00	1	0	0.00	6	0	0.00			
39720	PICLORAM IN WHOLE WATER SAMPLE	Drinking Water	500.	18	0	0.00	11	0	0.00	1	0	0.00	6	0	0.00			
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	18	0	0.00	11	0	0.00	1	0	0.00	6	0	0.00			
39760	SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	18	0	0.00	11	0	0.00	1	0	0.00	6	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	61	0	0.00	26	0	0.00	6	0	0.00	29	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	22	0	0.00	15	0	0.00	1	0	0.00	6	0	0.00			
		Drinking Water	2.	22	0	0.00	15	0	0.00	1	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

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 NIOB 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 NIOB Study Area Exist for These Groups:

Alkalinity		Total Obs.	01/01/85 to 09/21/94	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	352	3	198	151	13
00440	BICARBONATE ION (MG/L AS HCO3)	172	0	97	75	4
00445	CARBONATE ION (MG/L AS CO3)	169	0	97	72	4
		693	3	392	298	21 (13)[1]

pH		Total Obs.	01/01/85 to 09/21/94	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00400	PH (STANDARD UNITS)	1178	358	630	190	19
00403	PH, LAB (STANDARD UNITS)	842	440	401	1	30
		2020	798	1031	191	49 (35)[1]

Conductivity		Total Obs.	01/01/85 to 09/21/94	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	2	0	2	0	1
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	1651	478	964	209	46
		1653	478	966	209	47 (46)[1]

Dissolved Oxygen		Total Obs.	01/01/85 to 09/21/94	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	3	0	3	0	3
00300	OXYGEN, DISSOLVED (MG/L)	1027	278	619	130	34
		1030	278	622	130	37 (34)[1]

Water Temperature		Total Obs.	01/01/85 to 09/21/94	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	1948	489	1101	358	45
		1948	489	1101	358	45 (45)[1]

Flow		Total Obs.	01/01/85 to 09/21/94	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00059	FLOW RATE, INSTANTANEOUS, GALLONS/MINUTE	1	0	1	0	1
00060	FLOW, STREAM, MEAN DAILY CFS	534	64	217	253	11
00061	FLOW, STREAM, INSTANTANEOUS CFS	1321	254	692	375	24
00065	STAGE, STREAM (FEET)	29	0	29	0	3
74069	FLOW, ESTIMATED STREAM, CFS	5	0	5	0	3
		1890	318	944	628	42 (33)[1]

Clarity/Turbidity		Total Obs.	01/01/85 to 09/21/94	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00070	TURBIDITY, (JACKSON CANDLE UNITS)	201	0	71	130	9
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	106	0	106	0	13
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	752	236	515	1	26
		1059	236	692	131	48 (29)[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.

Nitrate/Nitrogen		Total Obs.	01/01/85 to 09/21/94	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00600	NITROGEN, TOTAL (MG/L AS N)	3	2	0	1	2
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	7	2	0	5	2
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	63	61	2	0	4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	789	255	525	9	31
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	4	0	0	4	1
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	61	61	0	0	2
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	198	85	107	6	22
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	906	256	547	103	31
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	541	199	325	17	5
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	2	0	2	0	2
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	61	0	0	61	3
		2635	921	1508	206	105 (36)[1]

Phosphate/Phosphorus		Total Obs.	01/01/85 to 09/21/94	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	62	0	0	62	8
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	96	0	91	5	8
00665	PHOSPHORUS, TOTAL (MG/L AS P)	1030	432	592	6	30
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	492	180	291	21	5
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	61	61	0	0	2
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	75	0	75	0	17
		1816	673	1049	94	70 (35)[1]

Sulfates/Total Dissolved Solids/Hardness		Total Obs.	01/01/85 to 09/21/94	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00900	HARDNESS, TOTAL (MG/L AS CACO3)	491	11	296	184	14
00945	SULFATE, TOTAL (MG/L AS SO4)	754	219	354	181	15
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	67	0	3	64	4
		1312	230	653	429	33 (15)[1]

Bacteria		Total Obs.	01/01/85 to 09/21/94	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C	652	233	410	9	25
31648	E. COLI - MTEC-MF	83	83	0	0	3
		735	316	410	9	28 (25)[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 09/21/94	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
01000	ARSENIC, DISSOLVED (UG/L AS AS)	3	0	0	3	2
01002	ARSENIC, TOTAL (UG/L AS AS)	20	20	0	0	3
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	2	0	0	2	1
01012	BERYLLIUM, TOTAL (UG/L AS BE)	20	20	0	0	2
01025	CADMIUM, DISSOLVED (UG/L AS CD)	3	0	0	3	2
01027	CADMIUM, TOTAL (UG/L AS CD)	21	21	0	0	3
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	5	1	0	4	3
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	1	0	0	1	1
01034	CHROMIUM, TOTAL (UG/L AS CR)	21	21	0	0	3
01040	COPPER, DISSOLVED (UG/L AS CU)	4	0	0	4	2
01042	COPPER, TOTAL (UG/L AS CU)	36	21	1	14	11
01049	LEAD, DISSOLVED (UG/L AS PB)	3	0	0	3	2
01051	LEAD, TOTAL (UG/L AS PB)	21	21	0	0	3
71890	MERCURY, DISSOLVED (UG/L AS HG)	1	0	0	1	1
71900	MERCURY, TOTAL (UG/L AS HG)	22	21	0	1	4
01065	NICKEL, DISSOLVED (UG/L AS NI)	2	0	0	2	1
01067	NICKEL, TOTAL (UG/L AS NI)	20	20	0	0	2
01145	SELENIUM, DISSOLVED (UG/L AS SE)	3	0	0	3	2
01147	SELENIUM, TOTAL (UG/L AS SE)	21	21	0	0	3
01075	SILVER, DISSOLVED (UG/L AS AG)	4	1	0	3	3
01077	SILVER, TOTAL (UG/L AS AG)	1	1	0	0	1
01090	ZINC, DISSOLVED (UG/L AS ZN)	5	1	0	4	3
01092	ZINC, TOTAL (UG/L AS ZN)	41	21	1	19	11
00720	CYANIDE, TOTAL (MG/L AS CN)	2	0	0	2	1
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1
39340	GAMMA-BHC(LINDANE), WHOLE WATER (UG/L)	17	17	0	0	1
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATER (UG/L)	17	17	0	0	1
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	17	17	0	0	1
		469	398	2	69	81 (13)[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	693	3	0.4	13	26.5	53.3	06/29/48-10/14/88	17.2
pH	2020	798	39.5	35	71.4	57.7	06/29/48-09/09/93	44.7
Conductivity	1653	478	28.9	46	93.9	35.9	06/29/48-09/09/93	36.6
Dissolved Oxygen	1030	278	27.0	34	69.4	30.3	05/15/68-07/23/93	40.9
Water Temperature	1948	489	25.1	45	91.8	43.3	10/17/50-09/09/93	45.4
Flow	1890	318	16.8	33	67.3	57.3	06/09/47-09/09/93	40.9
Clarity/Turbidity	1059	236	22.3	29	59.2	36.5	10/02/66-04/21/93	39.9
Nitrate/Nitrogen	2635	921	35.0	36	73.5	73.2	06/29/48-09/09/93	58.3
Phosphate/Phosphorus	1816	673	37.1	35	71.4	51.9	05/12/64-09/09/93	61.9
Chlorophyll	0	0	0.0	0	0.0	0.0	No Data For Group	0.0
Sulfates/Total Dissolved Solids/Hardness	1312	230	17.5	15	30.6	87.5	06/29/48-09/09/93	29.0
Bacteria	735	316	43.0	25	51.0	29.4	06/06/73-04/21/93	37.0
Toxic Elements	469	398	84.9	13	26.5	36.1	05/12/64-11/04/91	17.1

Water Quality Observations
Outside STORET Edit Criteria for NIOB

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
NIOB0008	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	740822	0915	62.0000000	21NEB001	300973	x
NIOB0008	00950	FLUORIDE, DISSOLVED (MG/L AS F)	731210	1300	26.0000000	21NEB001	300973	
NIOB0014	00665	PHOSPHORUS, TOTAL (MG/L AS P)	820513	2100	12.5000000	21NEB001	LPR008	
NIOB0016	00080	COLOR (PLATINUM-COBALT UNITS)	840406	1500	880.0000000	112WRD	06463500	x
NIOB0016	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	880818	1055	0.0000000	112WRD	06463500	x
NIOB0016	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	890720	1045	0.0000000	112WRD	06463500	x
NIOB0018	31679	FECAL STREP., MF M-ENTEROCOCCUS AGAR,35C,48H	800529	0800	760000.0000000	21NEB001	BN0003	
NIOB0019	00665	PHOSPHORUS, TOTAL (MG/L AS P)	820513	1900	12.0000000	21NEB001	BNR003	
NIOB0027	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	740822		82.0000000	21NEB001	300962	x
NIOB0032	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	870624	0930	0.0000000	112WRD	06461500	x
NIOB0032	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	880817	0855	0.0000000	112WRD	06461500	x
NIOB0032	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	890719	0850	0.0000000	112WRD	06461500	x
NIOB0032	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	911106	0840	0.0000000	112WRD	06461500	x
NIOB0038	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	771011	1555	53.5000000	1117MBR	002430	

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) NIOBTABS.ZIP

This compressed file contains all the tables presented in the report. The files compressed into this file include:

(a) NIOBSITE.DOC - Descriptive listing of select fields from the industrial facilities discharges, drinking water intakes, and EPA-USGS stream gages databases.

(b) NIOBAGNC.DOC - Contacts for agencies whose data were retrieved within the study area.

(c) NIOBAGNQ.DOC - Number of stations, observations, and parameters retrieved by agency code within the study area and park.

(d) NIOBOV0.DOC - Overview of park and retrieved data.

(e) NIOBOV1.DOC - Station period of record table.

(f) NIOBOV2.DOC - Parameter period of record table.

(g) NIOBOV3.DOC - Station/parameter period of record table.

(h) NIOBINV.DOC - Station by station descriptive statistics over the entire period of record and comparison against EPA Water Quality Criteria for each station.

(i) NIOBSEAN.DOC - Seasonal and annual water quality descriptive statistics at stations with water quality data meeting the default seasonal and annual criteria.

(j) NIOBEPAS.DOC - EPA Water Quality Criteria comparison for data at all stations combined within the study area.

(k) NIOBIDEA.DOC - Comparison of downloaded STORET data with NPS Servicewide Inventory and Monitoring Program "Level I" water quality parameters.

(l) NIOBBAD.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 NIOBOV1.DOC is in the subdirectory C:\WATER, you could type: PRINT C:\WATER\NIOBOV1.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) NIOBFIGS.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 NIOB0001. 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 NIOB0001) 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) NIOBPARM.ZIP

This file compresses NIOBPARM.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) NIOBSITE.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) NIOBWQ.DBF - All water quality monitoring station locations within the project's study area downloaded from STORET.

(b) NIOBIFD.DBF - All municipal and industrial facility discharges within the project's study area downloaded from the IFD database.

(c) NIOBDRIN.DBF - All drinking water intakes within the project's study area downloaded from the DRINKS database.

(d) NIOBGAGE.DBF - All water gages within the project's study area downloaded from the GAGES database.

(e) NIOBDAMS.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) NIOBMISC.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) NIOBEXEC.DOC - WordPerfect Ver. 5.1 copy of the Executive Summary in the report.

(b) NIOBTOC.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) NIOBREGI - PCL and CLP (Windows Clipboard) copies of map displaying the regional location of the park and study area.

(f) NIOBWQ - 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 (NIOBWQA, NIOBWQB, NIOBWQC, etc.) and the index map name will end with an ampersand (&).

(g) NIOBIDG - 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 (NIOBIDGA, NIOBIDGB, NIOBIDGC, 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) NIOBSEHY - 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 NIOBFIGS.ZIP and NIOBTABS.ZIP, you can use the PRINTZIP program to print any of the PCL files in NIOBMISC.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) NIOBRF3.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) NIOBWQMW.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: NIOBPARM.DBF in NIOBPARM.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: NIOBPARM.DBF in NIOBPARM.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: NIOBPARM.DBF in NIOBPARM.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: NIOBWQ.DBF in NIOBSITE.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: NIOBWQ.DBF in NIOBSITE.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: NIOBIFD.DBF in NIOBSITE.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: NIOBIFD.DBF in NIOBSITE.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: NIOBIFD.DBF in NIOBSITE.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: NIOBDRIN.DBF in NIOBSITE.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: NIOBDRIN.DBF in NIOBSITE.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: NIOBDRIN.DBF in NIOBSITE.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: NIOBGAGE.DBF in NIOBSITE.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: NIOBGAGE.DBF in NIOBSITE.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: NIOBDAMS.DBF in NIOBSITE.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: NIOBDAMS.DBF in NIOBSITE.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: NIOBDAMS.DBF in NIOBSITE.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: NIOBDAMS.DBF in NIOBSITE.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 NIOBRF3.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 NIOBRF3.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 NIOBRF3.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 NIOBRF3.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 NIOBRF3.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 NIOBRF3.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
16887006	70352	860	250[s]			CHLORIDE, ORGANIC	MG/L	General Organic
14797558	71850		44			NITRATE NITROGEN, TOTAL (AS NO3)	MG/L	Nitrogen
14797558	71851		44			NITRATE NITROGEN, DISSOLVED (AS NO3)	MG/L	Nitrogen

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
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
103231	77903		400			BIS (2-ETHYLHEXYL) ADIPATE, WHOLE WATER	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
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
7440020	81752	1400+	100	75		NICKEL, INTERSTITIAL WATER FROM SEDIMENTS	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
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
115297	82355	0.22		0.034		ENDOSULFAN, SUSPENDED IN WATER	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
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	-

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
00723	CYANIDE, DISSOLVED STD METHOD (UG/L)	57125
00724	CYANIDE COMPLEXED TO A RANGE OF COMPNDS (UG/L)	57125

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
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
01040	COPPER, DISSOLVED (UG/L AS CU)	7440508

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
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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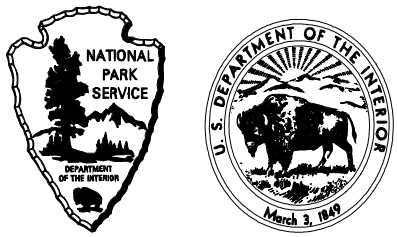
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As the nation's principal conservation agency, the Department of the Interior has the responsibility for most of our nationally owned public lands and natural and cultural resources. This includes fostering wise use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people. The Department also promotes the goals of the Take Pride in America campaign by encouraging stewardship and citizen responsibility for the public lands and promoting citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.