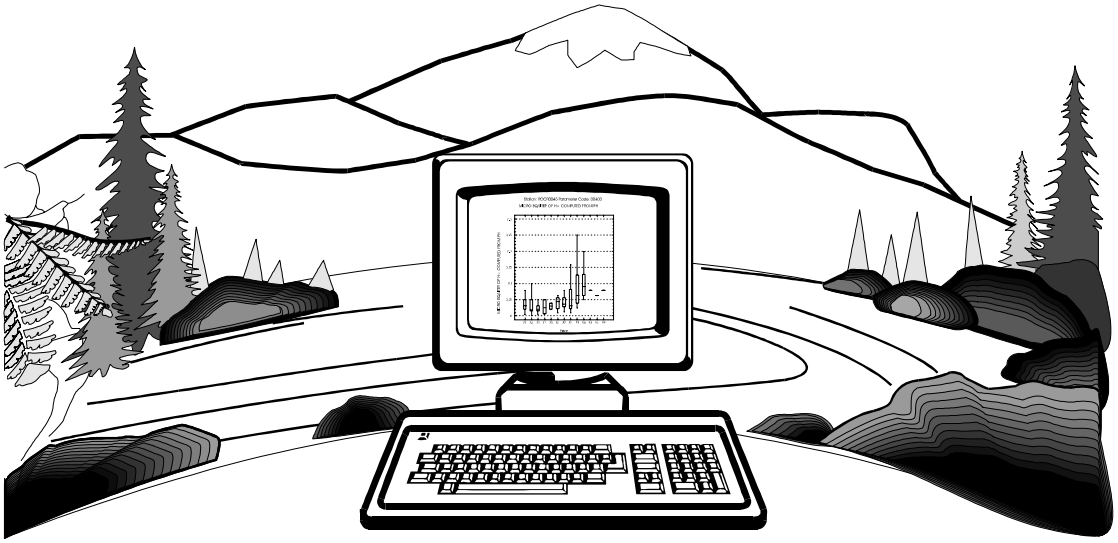
Baseline Water Quality Data

Inventory and Analysis

Great Smoky Mountains National Park



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

GREAT SMOKY MOUNTAINS NATIONAL PARK

National Park Service
Water Resources Division
Fort Collins, CO 80525

Technical Report NPS/NRWRD/NRTR-95/45

MAY 1995

United States Department of the Interior
National Park Service
Washington, D.C.

EXECUTIVE SUMMARY

This document presents the results of surface-water-quality data retrievals for Great Smoky Mountains National Park (GRSM) from five of the United States Environmental Protection Agency's (EPA) national databases: (1) Storage and Retrieval (STORET) database management system; (2) River Reach File (RF3); (3) Industrial Facilities Discharge (IFD); (4) Drinking Water Supplies (DRINKS); and (5) Flow Gages (GAGES). 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 GRSM study area from the IFD, DRINKS, and GAGES databases located 24 industrial/municipal dischargers, 12 drinking water intakes, and 22 active or inactive U. S. Geological Survey, National Weather Service, or Tennessee Valley Authority gaging stations. The results of the STORET retrieval for the study area yielded 112,749 observations for 847 separate parameters collected by five federal and state government agencies at 265 monitoring stations. Of the 265 monitoring stations, 13 were established but contained no data; nine did not contain data appropriate for statistical analysis; and ten were used for monitoring fish tissues and/or bottom deposits. One-hundred-forty-five 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. Thirty-two stations within the study area yielded longer-term records consisting of multiple observations for several important water quality parameters. Twelve stations yielding longer-term records within the park are: (1) Fontana Lake Below Tuckasegee R (GRSM 0013); (2) Fontana Lake Above Stecoah Crk (GRSM 0016); (3) Fontana Lake @ Tuckasegee R @ Bryson City (GRSM 0024); (4) Fontana Lake Below Hazel Crk (GRSM 0027); (5) Fontana Lake at Fontana Dam Inact-790716 (GRSM 0063); (6) Fontana Reservoir (GRSM 0069); (7) Noland Creek Near Bryson City, N.C. (GRSM 0074); (8) Little R. AB Townsend (GRSM 0182); (9) Cataloochee Creek Near Cataloochee NC (GRSM 0184); (10) Cataloochee Creek Near Cataloochee NC (GRSM 0185); (11) Unnamed 131TVAC (GRSM 0202); and (12) Above Sewage Disposal Plant (GRSM 0222)[†].

Twenty stations yielding longer-term records within the study area, but outside of the park boundary are: (1) Fontana Lake NR Almonds NC Inact-790713 (GRSM 0007); (2) Tuckasegee River at Bryson City (GRSM 0009); (3) Tuckasegee River at Bryson City, NC (GRSM 0010); (4) Tuckasegee R Near Bryson City NC Inact-770713 (GRSM 0011); (5) Fontana Lake 2mi US Hazel Ck Inact-790731 (GRSM 0022); (6) Cheoh Dam Penstock (GRSM 0036); (7) Little Tennessee River @ Fontana Inactive 810309 (GRSM 0037); (8) Santeetlah Powerhouse Tailrace (GRSM 0048); (9) Little Tennessee River at Tapoco NC (GRSM 0055); (10) Little Tennessee River at Tapoco NC (GRSM 0056); (11) Fontana Dam Scroll Case (GRSM 0057); (12) Little Tennessee R Below Tapoco Inact-741127 (GRSM 0059); (13) Oconaluftee River NR Cherokee NC Inact-750129 (GRSM 0070); (14) Oconaluftee River at Cherokee NC Inact-750129 (GRSM 0073); (15) Calderwood Powerhouse Penstock (GRSM 0078); (16) Bridge 100 Feet Above Mouth of Indian Creek (GRSM 0087); (17) Ownby Street Bridge 0.2 Mile Above Le Conte Cr. (GRSM 0215); (18) Pigeon River at Waterville NC (GRSM 0249); (19) Pigeon River at Waterville NC (GRSM 0256); and (20) Pigeon R 20.4 @ N.C. Light/Pwr Disch Quad 173SW (GRSM 0264).

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

Screening criteria consisting of published EPA water-quality criteria and instantaneous concentration values selected by the WRD were used to identify potential water quality problems within the study area. While the criteria represent important threshold concentrations of pollutants, it is important to remember that criteria may have been exceeded due to any number of natural or anthropogenic factors, including errors in field, laboratory, and/or recording procedures. The reader is advised to read the Introduction for additional caveats in interpreting the exceeded criteria in this report. The results of the GRSM water quality criteria screen found 16 parameters that exceeded screening criteria at least once within the study area. Dissolved oxygen, pH, cadmium, copper, lead, silver, zinc, and mercury exceeded their respective EPA acute or chronic criteria for the protection of freshwater aquatic life. Nitrite plus nitrate, arsenic, cadmium, chromium, copper, lead, nickel, silver, and mercury exceeded their respective EPA drinking water criteria. Indicator bacteria (total and fecal coliform) concentrations and turbidity exceeded the WRD screening limits for primary-body contact recreation and aquatic life, respectively. Alkalinity was below the threshold used by the NPS Air Quality Division for determining potential sensitivity to acid deposition (buffering capacity).

Dissolved oxygen concentrations were measured 8,503 times at 150 monitoring stations from 1961 through 1995. Of the 8,485 observations used in the criteria analysis (see Media Type Screen in the Methodology for explanation), 402 observations at 34 monitoring stations were below the 4 milligrams per liter (mg/L) EPA criterion for the protection of freshwater aquatic life. The criterion was exceeded primarily by deep samples collected from lakes and reservoirs.

The pH was measured 6,615 times at 207 monitoring stations throughout the study area from 1956 through 1995. Of the 6,595 observations used in the criteria analysis (see Media Type Screen and Composite Type Screen in the Methodology for explanation), 3,370 observations at 136 monitoring stations were outside the pH range of 6.5 to 9.0 standard units (EPA chronic criteria for freshwater aquatic life). Twelve observations were greater than or equal to pH 9.0, and 3,358 observations were less than or equal to pH 6.5.

Turbidity was measured 1,474 times at 97 monitoring stations from 1964 through 1995. The WRD screening criterion of 50 JTU/FTU/NTU was exceeded 18 times at eight monitoring stations (GRSM 0009, GRSM 0021, GRSM 0055, GRSM 0185, GRSM 0244, GRSM 0256, GRSM 0258, GRSM 0262).

Total alkalinity was determined by low-level (less than 10 mg/L as $CaCO_3$) gran analysis 50 times at 22 monitoring stations in 1984 and 1985. Forty-eight observations in lakes (GRSM 0050, GRSM 0052, GRSM 0080, GRSM 0177), creeks (GRSM 0071, GRSM 0081, GRSM 0086, GRSM 0095, GRSM 0099, GRSM 0100, GRSM 0106, GRSM 0237, GRSM 0255, GRSM 0259), rivers (GRSM 0152, GRSM 0190), and streams (GRSM 0194, GRSM 0195, GRSM 0206, GRSM 0213) were below 200 µg/L indicating sensitivity to acid deposition.

Total coliform concentrations were determined 387 times at 37 monitoring stations from 1965 through 1984. Ninety-one observations at 19 stations in rivers or streams throughout the study area exceeded the 1,000 CFU/MPN per 100 ml criterion. Fecal coliform concentrations were determined 1,647 times at 53 stations from 1965 through 1995. Two-hundred-eighty-five observations at 29 stations throughout the study area exceeded the 200 MPN/CFU per 100 ml criterion.

Nitrite plus nitrate concentrations (including dissolved and total as N) were measured 1,728 times at 107 monitoring stations from 1973 through 1994 (see Media Type Screen in the Methodology for explanation). One total concentration of 16 mg/L in the Little Tennessee River at Tapoco, NC (GRSM 0055) on June 21, 1979, and one total concentration of 50 mg/L in the Pigeon River (GRSM 0264) on February 16, 1983 exceeded the drinking water criterion of 10 mg/L.

Arsenic concentrations (including dissolved, suspended, and total) were measured 636 times at 31 monitoring stations from 1970 through 1994. Forty-one observations (39 dissolved and 2 total) exceeded the drinking water criterion of 50 µg/L in Fontana Lake (GRSM 0007, GRSM 0013, GRSM 0016, GRSM 0022, GRSM 0024, GRSM 0027, GRSM 0063), Little Tennessee River (GRSM 0037, GRSM 0055, GRSM 0059), Oconaluftee River (GRSM 0070, GRSM 0073), Pigeon River (GRSM 0256), and Tuckasegee River (GRSM 0007).

Cadmium concentrations (including dissolved, suspended, and total) were measured 674 times at 44 monitoring stations from 1968 through 1994. Of the 378 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in Interpretive Guide To Water Quality Results for explanation), nine concentrations exceeded the acute freshwater criterion of 3.9 µg/L and seven exceeded the drinking water criterion of 5.0 µg/L. The criteria were exceeded at seven stream monitoring stations (GRSM 0009, GRSM 0054, GRSM 0055, GRSM 0182, GRSM 0184, GRSM 0202, GRSM 0264).

Chromium concentrations (including dissolved, suspended, hexavalent, and total) were measured 687 times at 47 monitoring stations from 1967 through 1994. One total concentration of 180 µg/L in the Pigeon River (GRSM 0264) on May 21, 1991, and one total concentration of 130 µg/L in the Tuckasegee River at Bryson City (GRSM 0009) on May 7, 1987 exceeded the drinking water criterion of 100 µg/L.

Copper concentrations (including dissolved, suspended, and total) were measured 839 times at 72 monitoring stations from 1967 through 1994. Of the 660 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in Interpretive Guide To Water Quality Results for explanation), 100 concentrations exceeded the acute freshwater criterion of 18 µg/L and five exceeded the proposed drinking water criterion of 1,300 µg/L. The criteria were exceeded at 31 monitoring stations throughout the study area.

Lead concentrations (including dissolved, suspended, and total) were measured 732 times at 45 monitoring stations from 1967 through 1994. Of the 731 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in Interpretive Guide To Water Quality Results for explanation), 97 concentrations exceeded the drinking water criterion of 5 µg/L and 19 exceeded the acute freshwater criterion of 82 µg/L. The criteria were exceeded at 23 monitoring stations throughout the study area.

Mercury concentrations (including dissolved, suspended, and total) were measured 691 times at 66 monitoring stations from 1970 through 1994. Three total concentrations in the Little Tennessee River at Tapoco NC (GRSM 0055), and three total concentrations in the Tuckasegee River at Bryson City (GRSM 0009) exceeded the acute freshwater criterion of 2.4 µg/L and/or the drinking water criterion of 2.0 µg/L.

Nickel concentrations (including dissolved and total) were measured 461 times at 57 monitoring stations from 1967 through 1994. Thirteen observations exceeded the proposed drinking water criterion of 100 µg/L in the Little Tennessee River (GRSM 0037, GRSM 0055), Oconaluftee River (GRSM 0070, GRSM 0073), Pigeon River (GRSM 0256, GRSM 0264), Cataloochee Creek (GRSM 0185), and Tuckasegee River (GRSM 0009).

Silver concentrations (including dissolved, suspended, and total) were measured 156 times at 25 monitoring stations from 1968 through 1994. Of the 112 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in Interpretive Guide To Water Quality Results for explanation), 19 dissolved concentrations exceeded the acute freshwater criterion of 4.1 µg/L and 11 exceeded the drinking water criterion of 50 µg/L. The criteria were exceeded in Fontana Lake Below Tuckasegee River (GRSM 0013), Little Tennessee River (GRSM 0055, GRSM 0059), Oconaluftee River (GRSM 0070, GRSM 0073), and Tuckasegee River (GRSM 0011).

Zinc concentrations (including dissolved, suspended, and total) were measured 861 times at 74 monitoring stations from 1967 through 1994. Thirty-eight total concentrations exceeded the acute freshwater criterion of 120 µg/L at 17 monitoring stations throughout the study area.

The IDEA conducted for GRSM indicates that STORET data exist for all Level I parameter groups in the park. Sufficient quantities of data were retrieved for the required chemical parameters; however, much of the data were collected before 1985. Results for 119 of the 127 EPA priority toxic pollutants (consisting of inorganic parameters, general organics, pesticides, and PCBs) were retrieved from STORET. The organic data were primarily from the Pigeon River Exposure Risk Study (GRSM 0230).

Surface water resources in the GRSM study area include the Little Pigeon River; Little Tennessee River; Little River; Oconaluftee River; Fontana Lake; and numerous creeks, springs, and smaller lakes. Based on the data

inventories and analyses contained in this report, surface waters within the study area generally appear to be of good quality, with indications of some impacts from human activities. Potential sources of contaminants include adjacent land development; road development and the associated increased stormwater runoff carrying road residues; septic systems and wastewater treatment facilities; abandoned mines, mineral exploration, and potential mineral development; wood harvesting, combustion, and the paper/pulp industry; and air-borne pollutants with associated acidic atmospheric deposition.

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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.

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.

Kendrick Gordon 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.

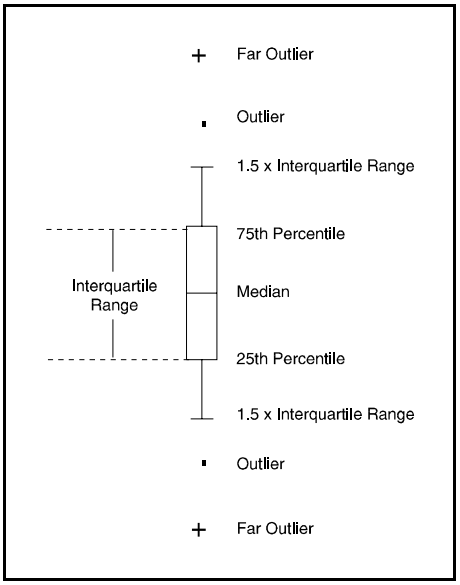
Table H. Definition of Descriptive Statistics Contained in Inventory, Annual, and Seasonal Tables

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 μeq/l H^+; and (3) μeq/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 μeq/l H^+ (Kunkle and Wilson 1984). Once the descriptive statistics are computed using the pH values expressed as μeq/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 GRSM[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:	764160	629120
# STORET Stations:	265	145
# Stations With No Data:	13	7
# Stations With No Stat. Analysis:	9	1
# Longer Term Stations:	32	12
Date of STORET Retrieval:	03/14/95	03/14/95
Period of Record:	08/02/46-01/09/95	11/06/56-12/05/94
# Parameters Measured:	847	733
# Water Quality Observations:	112749	47420
# Industrial/Municipal Facilities:	24	2
# Drinking Water Intakes:	12	5
# Water Gages:	22	11
# Water Impoundments:	12	1
# Total Plots:	122	81
# Time Series:	36	18
# Annual:	30	10
# Seasonal:	56	53

Hydrologic Definition of Seasons:

1. October 1 - March 31
2. April 1 - September 30

Time Series Plot Criteria:

To be included in the time series plots, a station/parameter combination must have at least 20 years and at least 120 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:

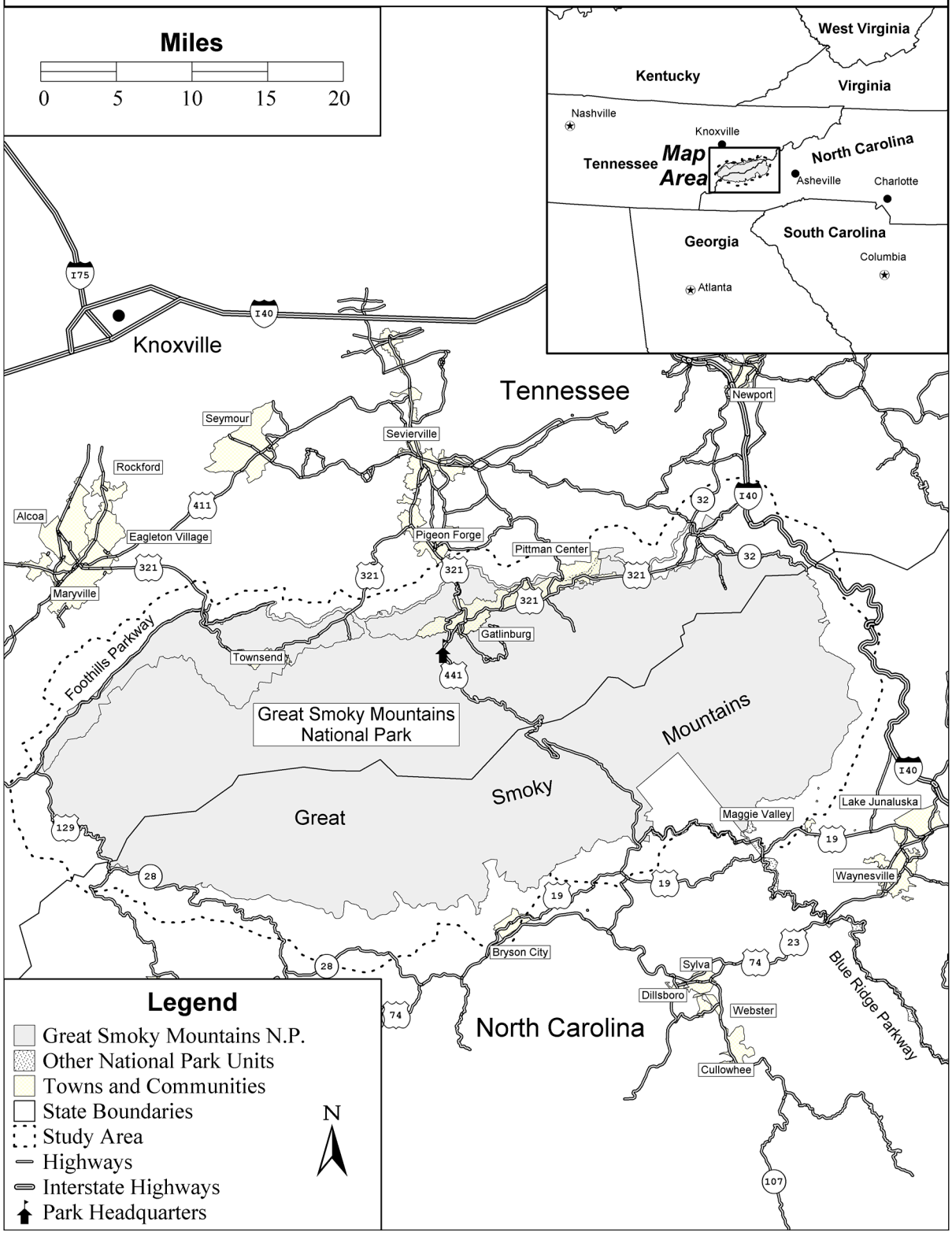
To be included in the seasonal box-and-whisker plots, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 25 years and observations in at least 4 of the 25 years.

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).

Great Smoky Mountains National Park

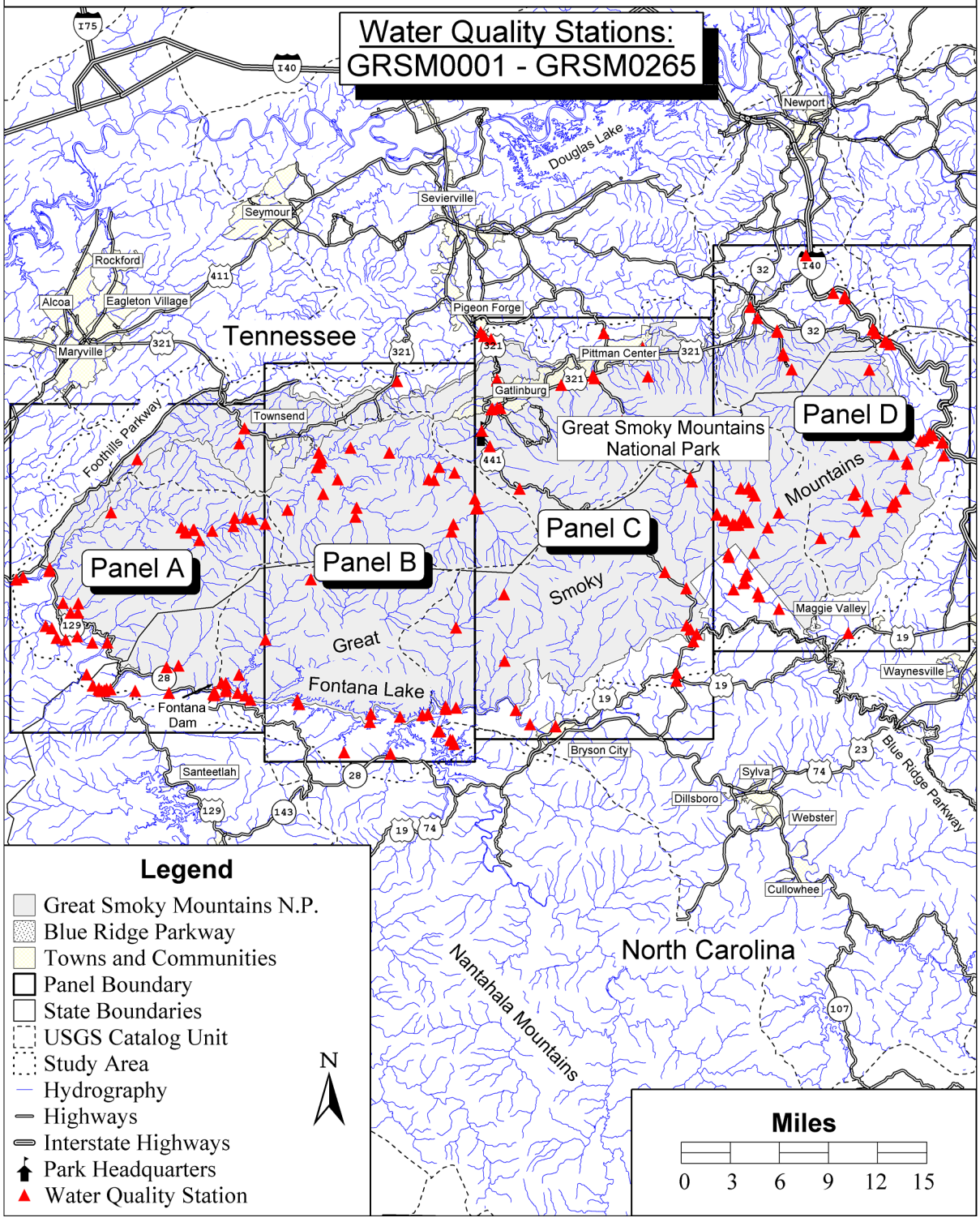
Regional Location Map



Great Smoky Mountains National Park

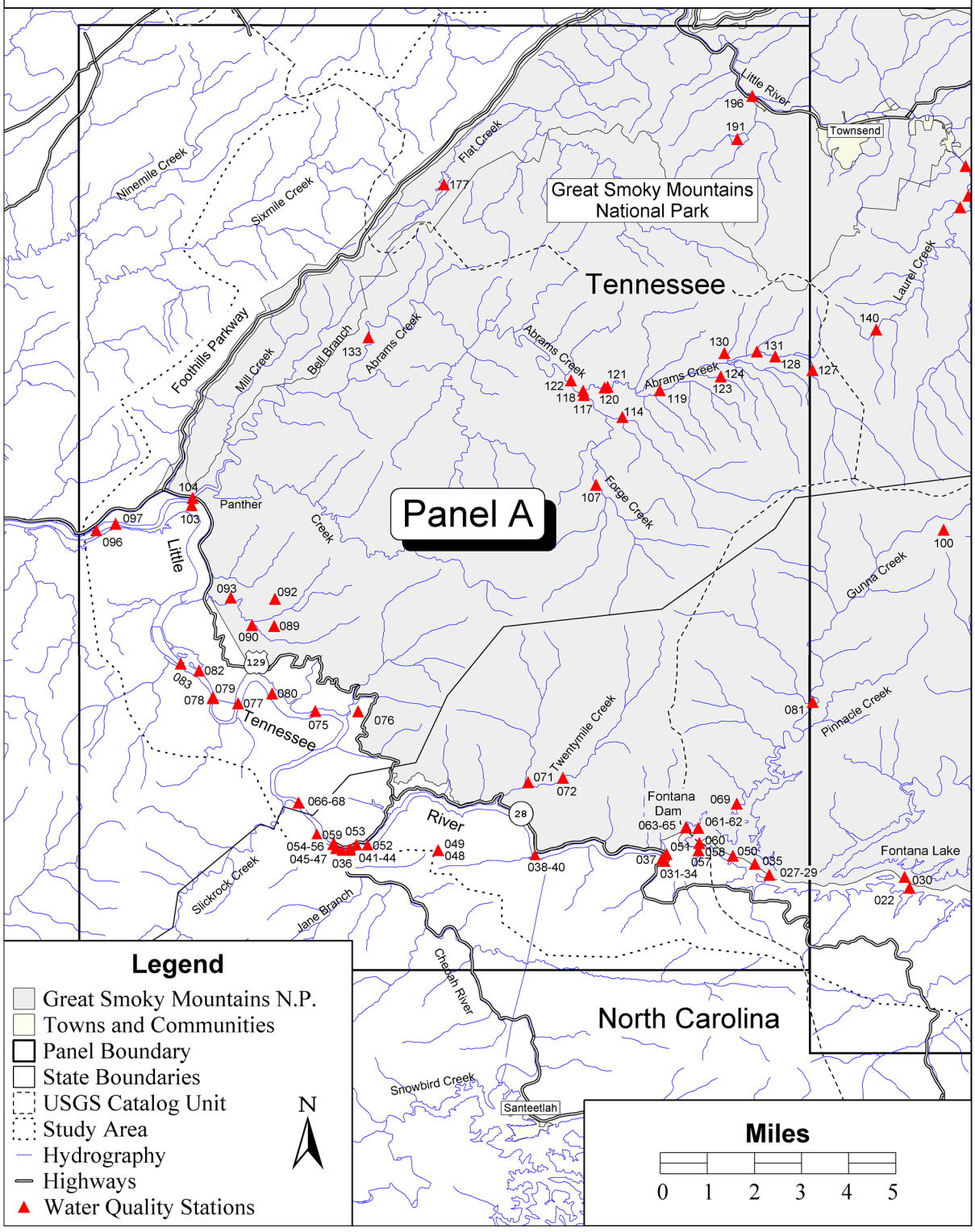
Water Quality Monitoring Locations

Graphic Panel Index



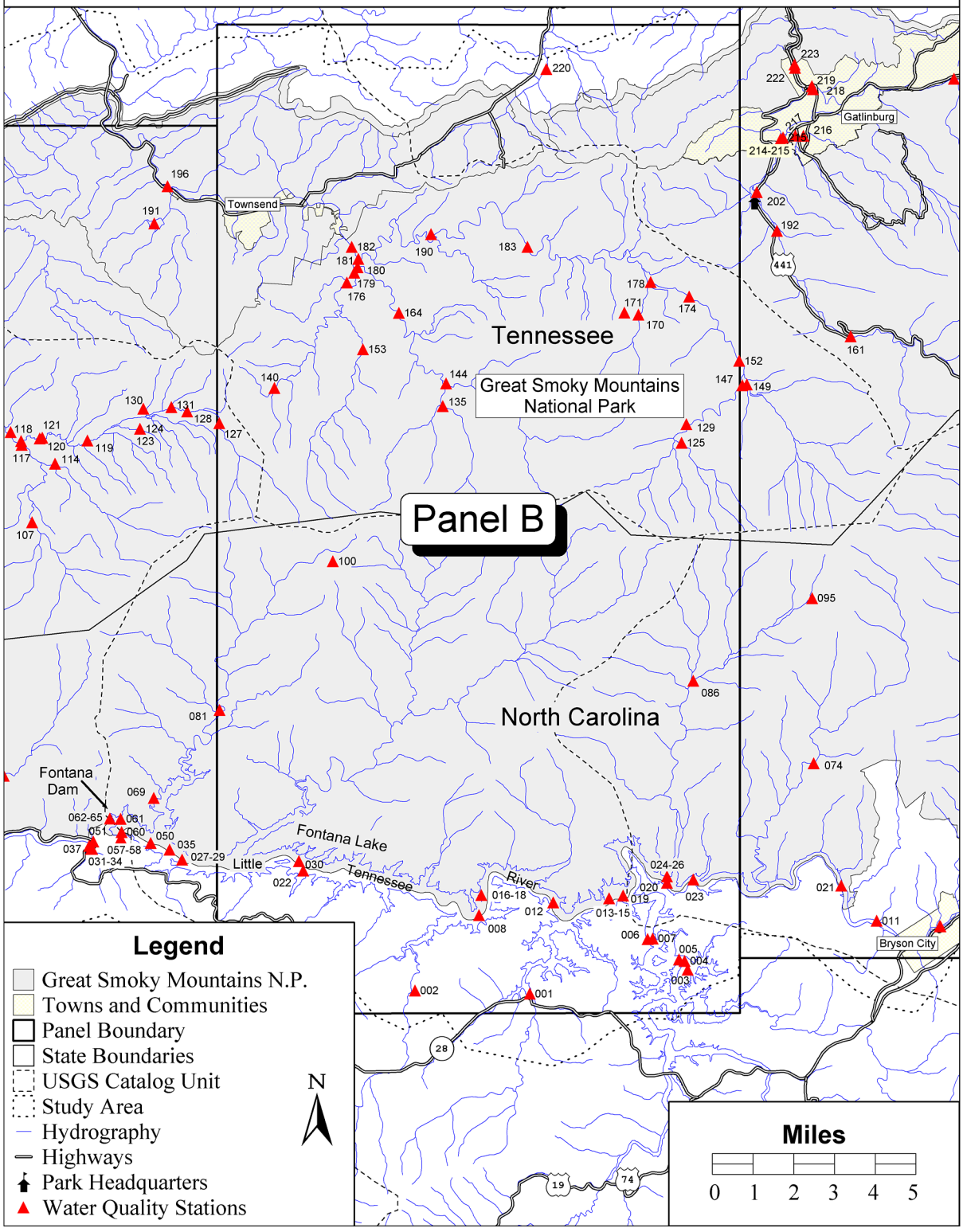
Great Smoky Mountains National Park

Water Quality Monitoring Locations



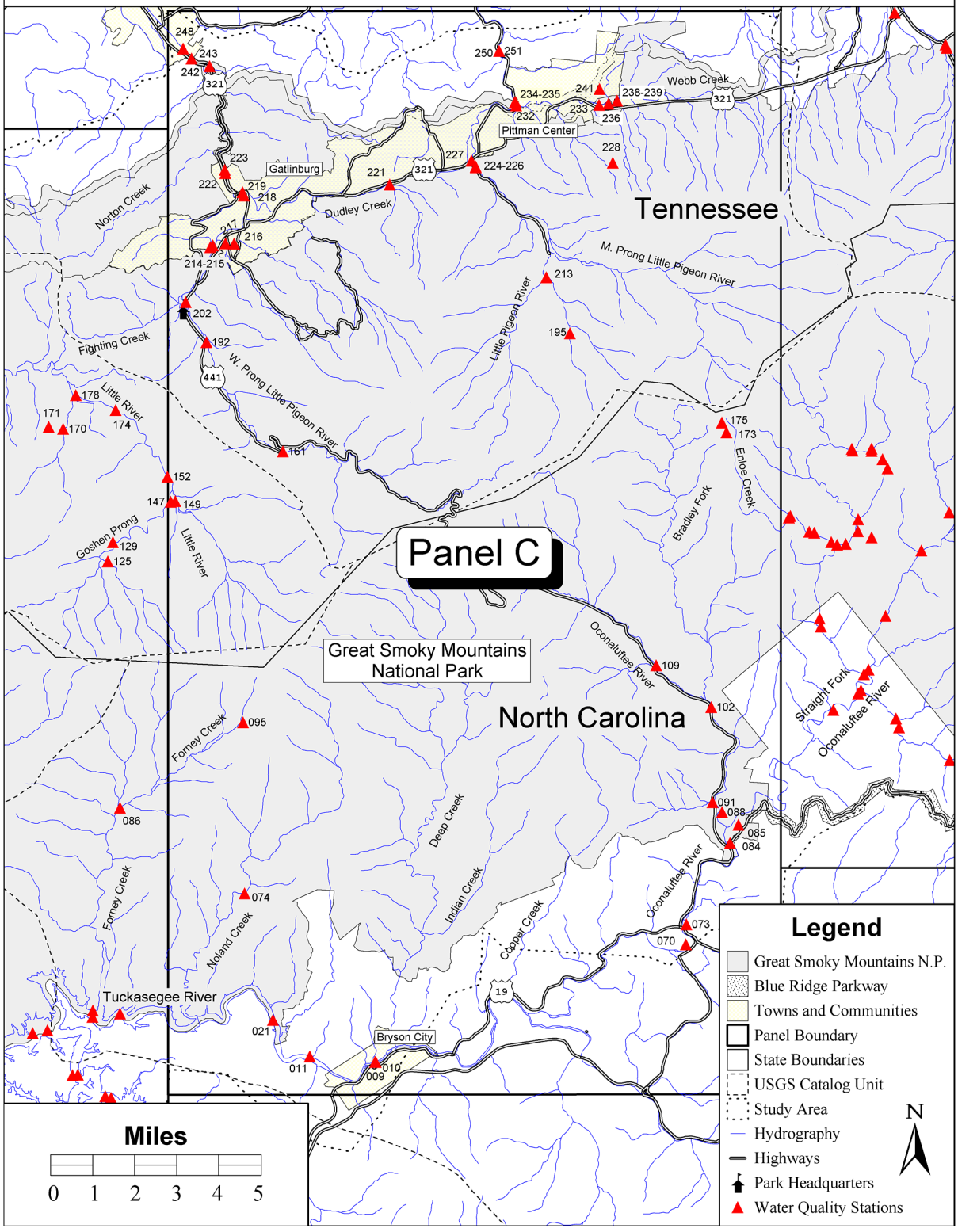
Great Smoky Mountains National Park

Water Quality Monitoring Locations



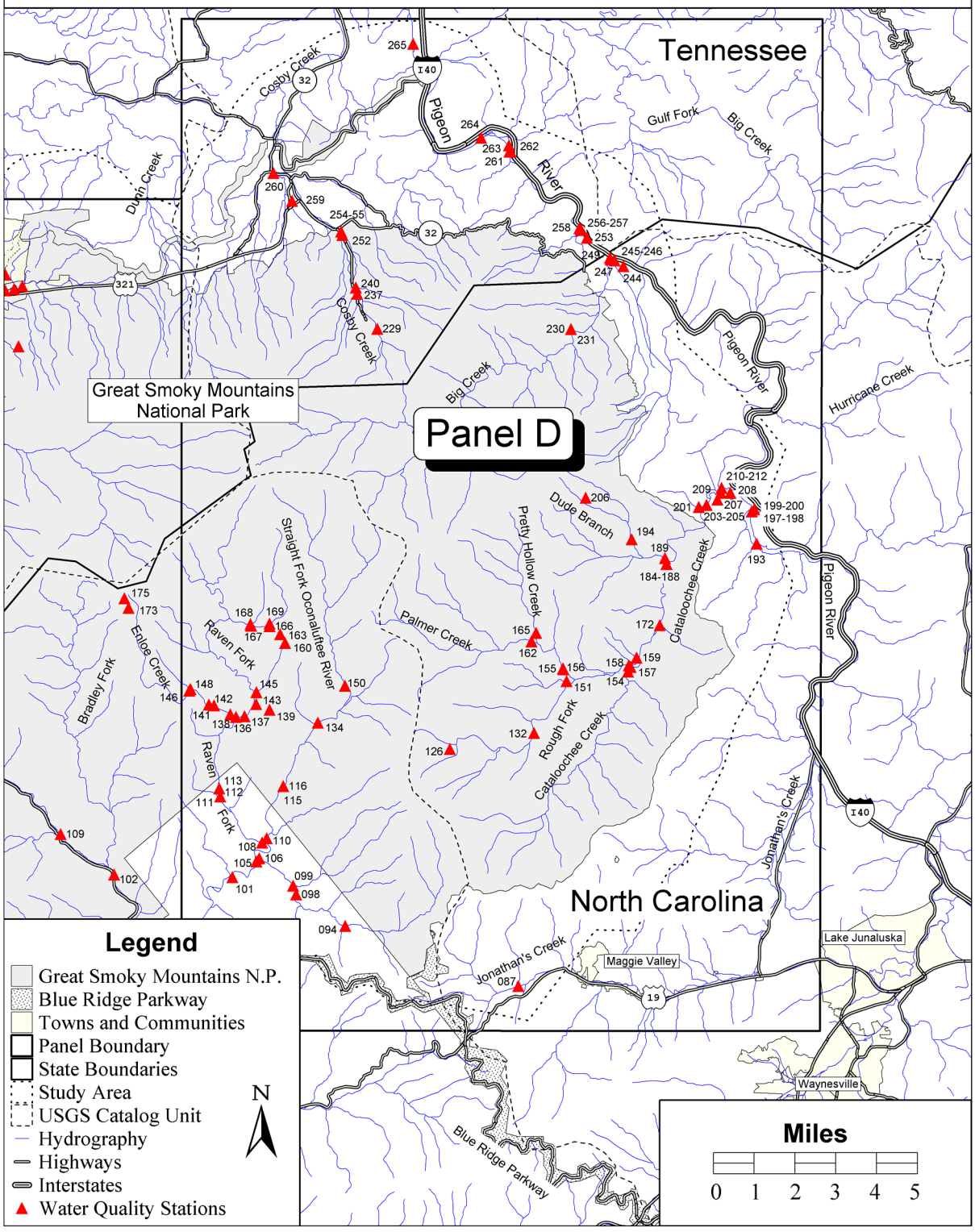
Great Smoky Mountains National Park

Water Quality Monitoring Locations



Great Smoky Mountains National Park

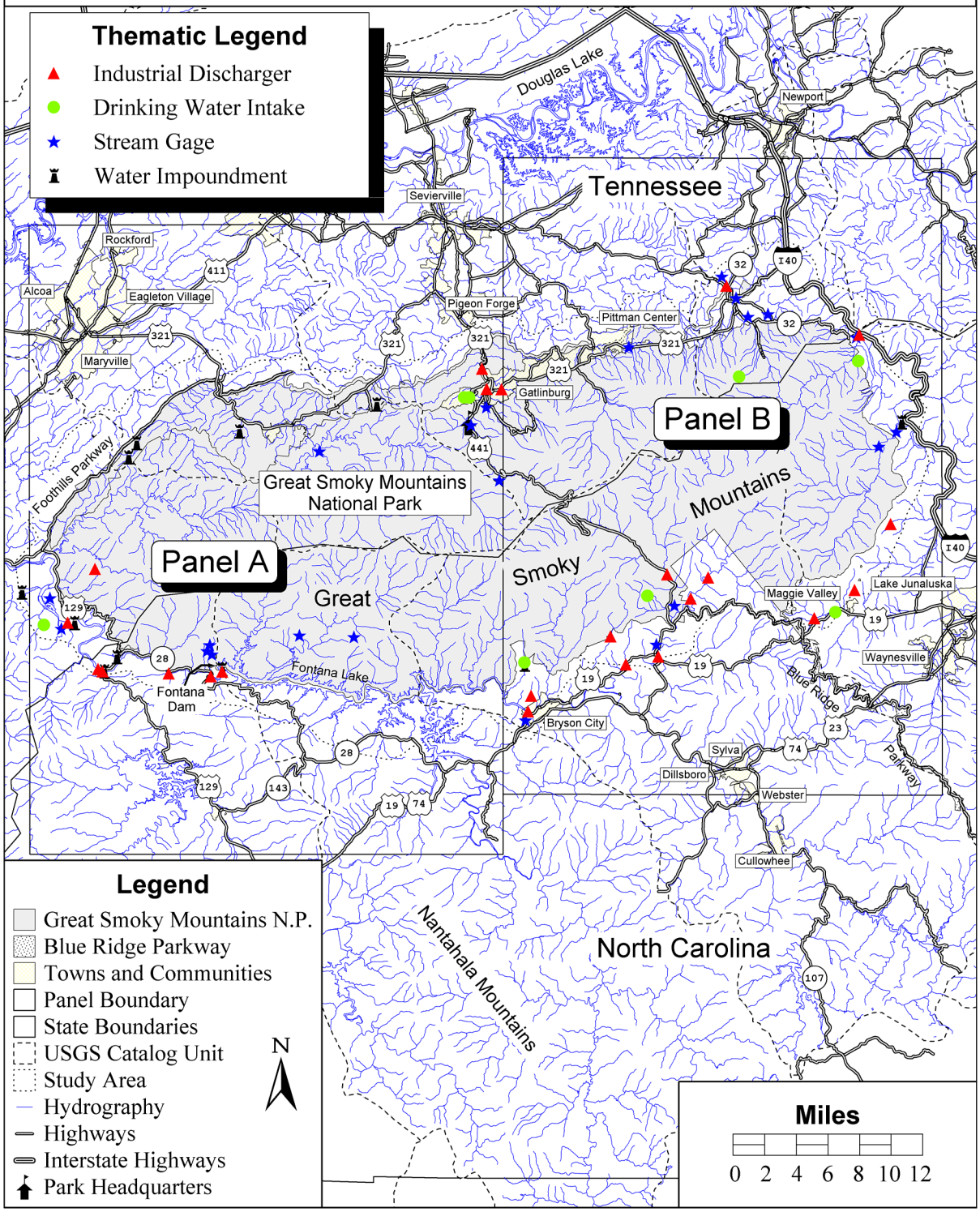
Water Quality Monitoring Locations



Great Smoky Mountains National Park

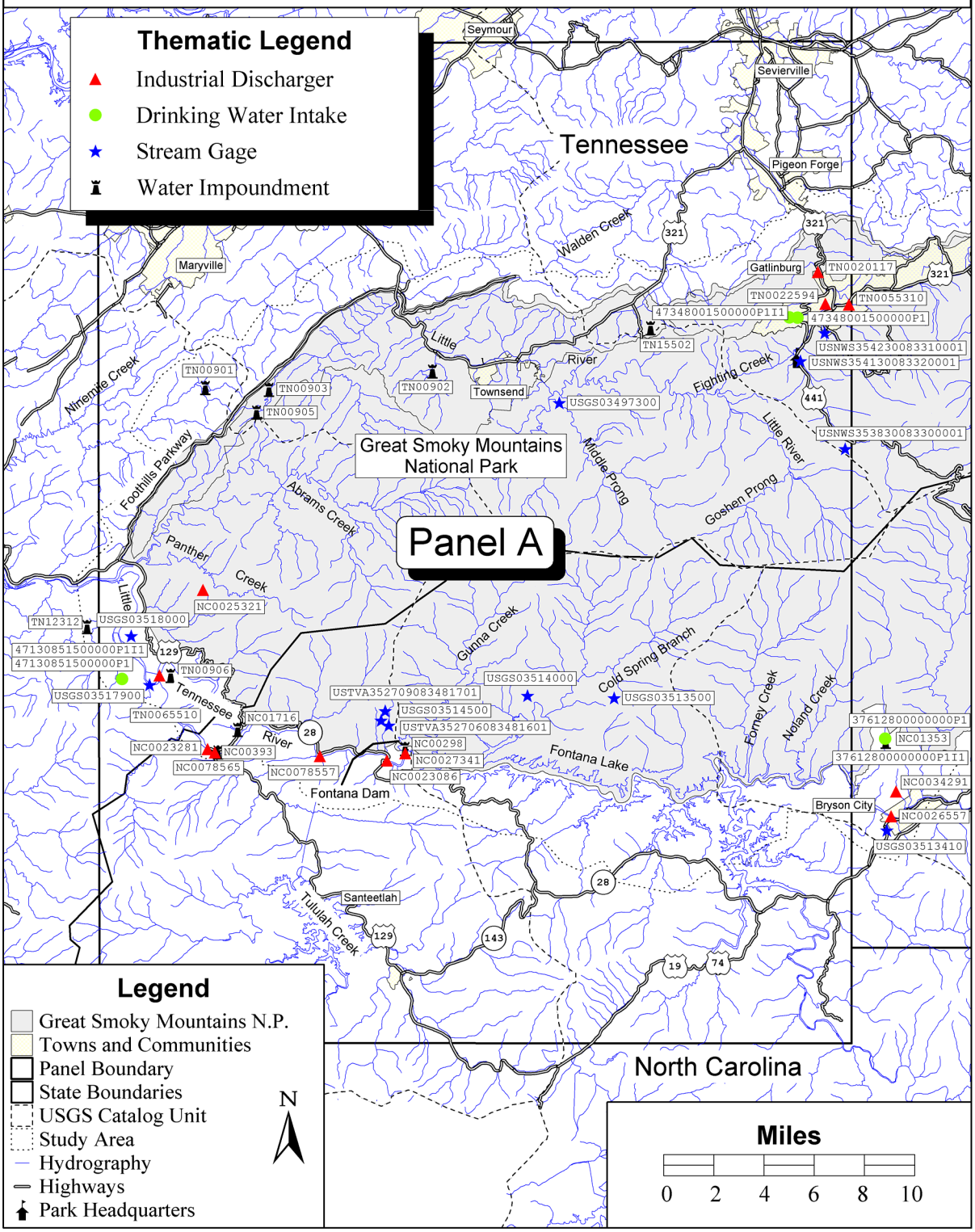
Dischargers, Drinking Intakes, Water Gages, & Water Impoundments

Graphic Panel Index



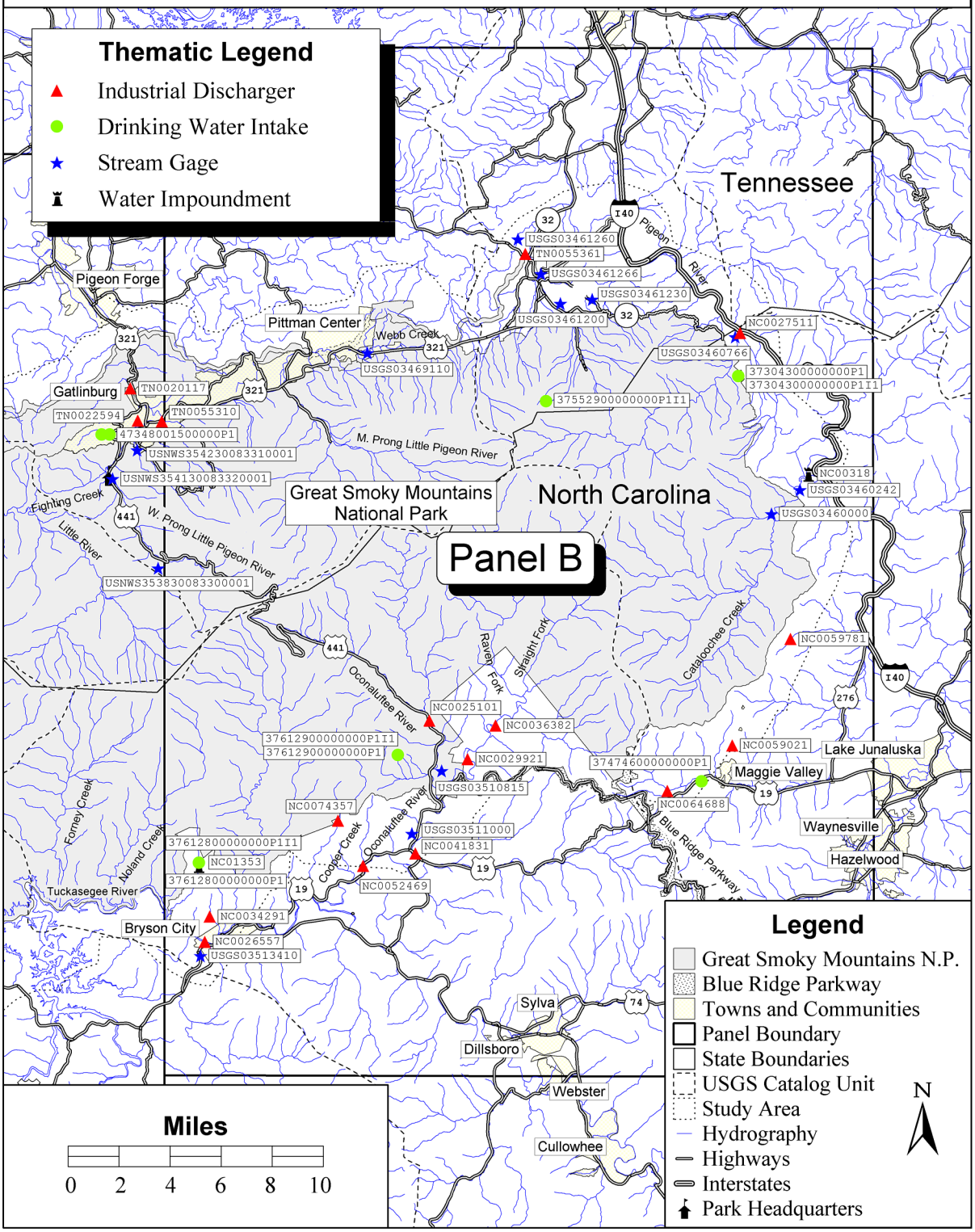
Great Smoky Mountains National Park

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



Great Smoky Mountains National Park

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



Industrial Facility Discharges, Drinking Water Intakes, and Stream Gages Within the GRSM Study Area

Industrial Facility Discharges

Site ID	Station/Facility Name	Address	City	Facility Receiving Water Name
NC0023086	FONTANA VILLAGE RESORT	FONTANA VILLAGE RESORT	FONTANA DAM	LITTLE TENNESSEE
NC0023281	TAPOCO-POWER GENERATION(STP)	.....	TAPOCO	L TENNESSEE R
NC0025101	USDI NPS GSM NP-SMOKEMONT CAMP	1895 PHOENIX BOULEVARD	SWAIN COUNTY	OCONALUFTEE RV
NC0025321	WAYNESVILLE WWTP, TOWN OF	106 S MAIN ST	WAYNESVILLE	PIGEON R
NC0026557	BRYSON CITY-STP	.....	BRYSON CITY	TUCKASEIGEE R
NC0027341	TVA-FONTANA HYDRO	.....	FONTANA DAM	L TENNESSEE R
NC0027511	CAROLINA P&L-WATERVILLE HYDRO	1-40 (WATERVILLE STAR RT)	WATERVILLE	PIGEON R
NC0029921	KOA KAMPING RESORT	STAR RT BOX 39	SWAIN COUNTY	RAVING FORK RIVE
NC0034291	SWAIN CNTY-WHITTIER SCH	SWAIN COUNTY BD.OF EDUC.	BRYSON CITY	TUCKASEIGEE RV
NC0036382	SAFARI OF CHEROKEE	STAR ROUTE BOX 54	SWAIN COUNTY	RAVEN FORK
NC0041831	CHEROKEE WWTP	.....	.....	OCONALUFTEE R
NC0052469	CHEROKEE INDIANS-201 WWTP	------	-----	UNNAMED
NC0052507	YOGI IN SMOKIES	STAR RT. BOX 54,BIG COVE	CHEROKEE	-------
NC0059021	WASHBURN RESIDENCE	PO BOX 4617	MAGGIE VALLEY	FIE CR
NC0059781	SUTTON RESIDENCE (KATHY)	RT. 2, BOX 502	WAYNESVILLE	-------
NC0064688	E O LINDER RESIDENCE	415 OLD CHAPLIN ROAD	HAYWOOD COUNTY	-------
NC0074357	WOODY'S TROUT FARM, INC.	430 COOPER CREEK RD.	BRYSON CITY	-------
NC0078557	TAPOCO,INC./SANTEETLAH PWRHSE.	P. O. BOX 14	TAPOCO	-------
NC0078565	TAPOCO, INC./CHEOAH POWERHOUSE	P. O. BOX 14	TAPOCO	-------
TN0020117	GATLINBURG STP	LITTLE PIGEON RIVER RD	SEVIER COUNTY	WEST PRONG LIT P
TN0022594	USDI NPS GSM NP-TREMONT	GREAT SMOKEY MOUNT. NAT.	BLOUNT COUNTY	LECONTE CR
TN0055310	WEBB CREEK U.D.	HIWAY 73	SEIVER COUNTY	WEBB CR
TN0055361	RESTLAVEN COIN LAUNDRY&CARWASH	.....	COSBY	TR TO COSBY C
TN0065510	TAPOCO INC-CALDERWOOD POWERHOU	------	BLOUNT COUNTY	LITTLE TENNESSEE RIVER

Drinking Water Intakes

Site ID	Station/Facility Name	City	Population Served	Avg. Daily Production (Gal./Day)
37304300000000P1	TREATMENT PLANT	WATERVILLE	32	1000.00
37304300000000P1I1	BIG CREEK	WATERVILLE	32	1000.00
37474600000000P1	TREATMENT PLANT	MAGGIE VALLEY	6000	-
37552900000000P1I1	YADKIN RIVER	SALISBURY	30000	0000.00
37612800000000P1	TREATMENT PLANT	BRYSON CITY	3000	0000.00
37612800000000P1I1	LANDS CREEK	BRYSON CITY	3000	0000.00
37612900000000P1	TREATMENT PLANT	CHEROKEE	800	5000.00
37612900000000P1I1	MINGUS CR	CHEROKEE	800	5000.00
47130851500000P1	TREATMENT PLANT	MARYVILLE	100	0000.00
47130851500000P1I1	FIRST CREEK	MARYVILLE	100	0000.00
47348001500000P1	TREATMENT PLANT	GATLINBURG	6195	0000.00
47348001500000P1I1	LIITLE PIGEON R	GATLINBURG	6195	0000.00

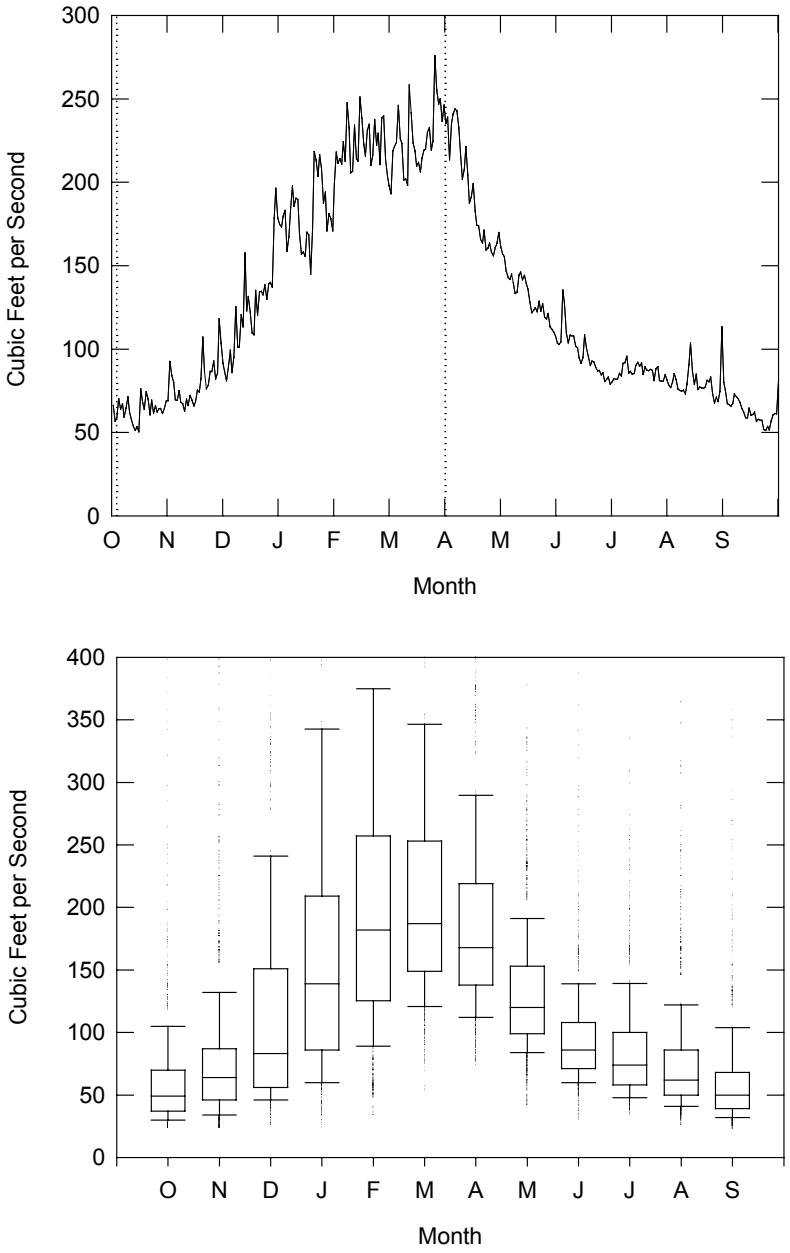
Industrial Facility Discharges, Drinking Water Intakes, and Stream Gages Within the GRSM Study Area

USGS Stream Gages

Site ID	Station Name	Catalog Unit	Drainage Area (Square Miles)	USGS Mean Annual Flow (Cubic Feet/Second)
USGS03460000	CATALOOCHEE CREEK N	06010106	49.20	110.56
USGS03460242	L WALTERS NR MT STE	06010106	455.00	-
USGS03460766	PIGEON RIVER AT WAT	06010106	536.00	-
USGS03461200	COSBY CREEK ABOVE C	06010106	10.20	28.56
USGS03461230	CANEY CREEK NEAR CO	06010106	1.62	-
USGS03461260	CANEY CREEK AT COSB	06010106	5.22	-
USGS03461266	GREENBRIER CREEK AT	06010106	4.96	-
USGS03469110	RAMSEY CREEK NEAR P	06010107	2.18	-
USGS03497300	LITTLE RIVER ABOVE	06010201	106.00	293.75
USGS03510815	MINGUS CREEK AT RAV	06010203	4.70	-
USGS03511000	OCONALUFTEE RIVER A	06010203	3100.00	382.57
USGS03513410	JENKINS BRANCH TRIB	06010203	46.00	-
USGS03513500	NOLAND CREEK NEAR B	06010202	1380.00	44.59
USGS03514000	HAZEL CREEK AT PROC	06010202	4440.00	128.64
USGS03514500	FONTANA L AT FONTAN	06010202	1571.00	-
USGS03517900	CALDERWOOD L AT CAL	06010204	1856.00	-
USGS03518000	LITTLE TENNESSEE RI	06010204	6200.00	4317.26
USNWS353830083300001	GATLNBRG CHMN TENN	06010107	-	-
USNWS354130083320001	GATLNBG PK HQ TENN	06010107	-	-
USNWS354230083310001	GATLINBURG TENN ON	06010107	-	-
USTVA352706083481601	LITTLE TENN R AT FO	06010202	1571.00	-
USTVA352709083481701	LITTLE TENN R AT FO	06010202	1571.00	-

REPRESENTATIVE MEAN ANNUAL HYDROGRAPH FOR SEASONAL ANALYSIS

GREAT SMOKY MOUNTAINS NATIONAL PARK
Jonathan Creek near Cove Creek, NC
03459000, 44 year record



Representative mean annual hydrograph (top) and distribution of daily flows by month (bottom) for hydrologic season determination. Box and whiskers represent a five number summary; bottom whisker cap is 10th percentile, bottom of box is 25th percentile, internal line is median, top of box is 75th percentile, and top whisker is 90th percentile. Hydrologic seasons for Great Smoky Mountains National Park are: Oct. 1 to Mar. 31, and Apr. 1 to Sep. 30.

CONTACTS FOR AGENCY CODES RETRIEVED FOR GRSM

AGENCY	PRIMARY CONTACT NAME	ORGANIZATION	PHONE NUMBER(S)
11EPALES	LAMBOU, VICTOR W.	USEPA	(702)798-2259
131TVAC	WINTERS, KATHY	TENN VALLEY AUTHORITY	(615)751-3752
21NC01WQ	LEE, ELORA	NC DNR & COMMUNITY DEVMNT	(919)733-7015
112WRD	YORKE, TOM	US GEOLOGICAL SURVEY	(703)648-5687
12ELS1	LANDERS, DIXON H.	EPA ENVIRONMENTAL RES LAB	(503)754-4427
12NSS	LANDERS, DIXON H.	EPA ENVIRONMENTAL RES LAB	(503)754-4427
21TNWQ	WIGGINS, GARLAND	TENN DEPT PUBLIC HEALTH	(615)741-6623
11NATDC	HOELMAN, LOUIS	USEPA HQ	(202)260-7050
11BIOACC	KRONER, STEVE	U.S. EPA MDSD	(202)260-4761
1114PEST	DEATRICK, JOHN	USEPA REGION 4	(404)347-2126
1113S000	DEATRICK, JOHN	USEPA REGION 4	(404)347-2126

QUANTITY OF DATA RETRIEVED FOR GRSM 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
11EPALES	USEPA	03/24/73-02/24/74	03/25/73-02/24/74	16	9	0	0	0	0	2915	1872	19	19
131TVAC	TENN VALLEY AUTHORITY	08/02/46-10/20/94	05/03/66-10/20/94	90	50	9	3	5	3	45026	16254	289	217
21NC01WQ	NC DNR & COMMUNITY DEVMNT	05/16/68-01/09/95	09/04/73-12/05/94	58	23	16	6	0	0	42575	15379	210	157
112WRD	US GEOLOGICAL SURVEY	10/19/56-11/22/94	11/06/56-11/22/94	52	37	6	3	0	0	17001	12327	281	249
12ELS1	EPA ENVIRONMENTAL RES LAB	11/20/84-11/29/84	11/20/84-11/20/84	6	1	0	0	0	0	156	26	26	26
12NSS	EPA ENVIRONMENTAL RES LAB	03/20/85-07/16/85	03/20/85-07/16/85	16	13	0	0	0	0	1188	918	27	27
21TNWQ	TENN DEPT PUBLIC HEALTH	06/02/64-12/14/92	04/15/81-08/13/81	22	8	1	0	7	3	3320	196	58	19
11NATDC	USEPA HQ	No Data in S.A.	No Data in Park	1	1	0	0	1	1	0	0	0	0
11BIOACC	U.S. EPA MDSD	10/17/84-10/17/84	10/17/84-10/17/84	1	1	0	0	0	0	101	101	64	64
1114PEST	USEPA REGION 4	06/05/80-06/09/80	06/05/80-06/09/80	2	2	0	0	0	0	347	347	345	345
1113S000	USEPA REGION 4	06/05/73-06/08/73	No Data in Park	1	0	0	0	0	0	120	0	31	0
Totals		08/02/46-01/09/95	11/06/56-12/05/94	265	145	32	12	13	7	112749	47420	847	733

[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 08/02/46 To 01/09/95

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75
GRSM0001	PANTHER CREEK	No	84	0	0	84
GRSM0002	STECOAH CREEK	No	91	0	0	91
GRSM0003	FONTANA RESERVOIR - ABOVE GREASY BRANCH	No	1654	1654	0	0
GRSM0004	FONTANA LAKE	No	305	0	0	305
GRSM0005	FONTANA RESERVOIR	No	397	363	0	34
GRSM0006	FONTANA RESERVOIR	No	889	0	889	0
GRSM0007[1]	FONTANA LAKE NR ALMONDS NC INACT-790713	No	504	0	466	38
GRSM0008	FONTANA RESERVOIR	Yes	1290	0	1192	98
GRSM0009[1]	TUCKASEGEE RIVER AT BRYSON CITY	No	7253	3191	3873	189
GRSM0010[1]	TUCKASEGEE RIVER AT BRYSON CITY, N. C.	No	1622	0	109	1513
GRSM0011[1]	TUCKASEGEE R NEAR BRYSON CITY NC INACT-770713	No	337	0	22	315
GRSM0012	FONTANA RESERVOIR	Yes	5	0	0	5
GRSM0013[1]	FONTANA LAKE BELOW TUCKASEGEE R	Yes	1131	231	864	36
GRSM0014	FONTANA LAKE BELOW TUCKASEGEE R	Yes	18	18	0	0
GRSM0015	FONTANA LAKE BELOW TUCKASEEGEE R	Yes	12	12	0	0
GRSM0016[1]	FONTANA LAKE ABOVE STECOAH CRK	Yes	938	226	676	36
GRSM0017	FONTANA LAKE ABOVE STECOAH CRK	Yes	18	18	0	0
GRSM0018	FONTANA LAKE ABOVE STECOAH CRK	Yes	12	12	0	0
GRSM0019	FONTANA LAKE	Yes	318	0	0	318
GRSM0020	FONTANA RESERVOIR - BELOW FORNEY CREEK	Yes	1790	1790	0	0
GRSM0021	HEADWATER OF FONTANA DAM	Yes	302	0	0	302
GRSM0022[1]	FONTANA LAKE 2MI US HAZEL CK INACT-790731	No	495	0	459	36
GRSM0023	FONTANA LAKE	Yes	320	0	0	320
GRSM0024[1]	FONTANA LAKE TUCKASEGEE R BRYSON CITY	Yes	1071	216	819	36
GRSM0025	FONTANA LK @ TUCKASEGEE R @ BRYSON CITY	Yes	18	18	0	0
GRSM0026	FONTANA LAKE @ TUCKASEGEE R @ BRYSON CITY	Yes	12	12	0	0
GRSM0027[1]	FONTANA LAKE BELOW HAZEL CRK	Yes	1032	230	766	36
GRSM0028	FONTANA LAKE BELOW HAZEL CRK	Yes	18	18	0	0
GRSM0029	FONTANA LAKE BELOW HAZEL CRK	Yes	12	12	0	0
GRSM0030	FONTANA LAKE	Yes	307	0	0	307
GRSM0031	LITTLE TENN R AT NC 28 BL FONTANA DAM N C	No	118	0	0	118
GRSM0032	LAKE CHEOAH AT NC HWY 28 NR FONTANA VILLAGE NC	No	61	61	0	0
GRSM0033	LAKE CHEOAH AT NC HWY 28 NR FONTANA VILLAGE NC	No	4	4	0	0
GRSM0034	LAKE CHEOAH AT NC HWY 28 NEAR FONTANA VILLAGE NC	No	6	6	0	0
GRSM0035	FONTANA RESERVOIR	Yes	191	165	0	26
GRSM0036[1]	CHEOH DAM PENSTOCK	No	3179	136	1718	1325
GRSM0037[1]	LITTLE TENNESSEE RIVER FONTANA INACTIVE 810309	No	2426	0	1986	440
GRSM0038	LAKE CHEOAH AT POWER LINES NR POWER HOUSE	No	117	117	0	0
GRSM0039	LAKE CHEOAH AT POWER LINES NR POWER HOUSE	No	4	4	0	0
GRSM0040	LAKE CHEOAH AT POWER LINES NR POWER HOUSE	No	12	12	0	0
GRSM0041	CHEOAH RESERVOIR	No	160	0	160	0
GRSM0042	LAKE CHEOAH NR DAM NR TAPOCO	No	217	217	0	0
GRSM0043	LAKE CHEOAH NR DAM NR TAPOCO	No	4	4	0	0
GRSM0044	LAKE CHEOAH NR DAM NR TAPOCO	No	12	12	0	0
GRSM0045	CALDERWOOD LAKE NR DAM	No	211	211	0	0
GRSM0046	CALDERWOOD LAKE NR DAM	No	4	4	0	0
GRSM0047	CALDERWOOD LAKE NR DAM	No	12	12	0	0
GRSM0048[1]	SANTEETLAH POWERHOUSE TAILRACE	No	1825	208	917	700
GRSM0049	SANTEETLAH POWERHOUSE TAILRACE	No	0	0	0	0
GRSM0050	FONTANA LAKE	Yes	26	0	26	0
GRSM0051	LITTLE TENNESSEE	No	89	0	0	89
GRSM0052	LAKE CHEOAH	No	26	0	26	0
GRSM0053	SANTEETLAH RESERVOIR	No	26	0	0	26
GRSM0054		No	684	0	684	0
GRSM0055[1]	LITTLE TENNESSEE RIVER AT TAPOCO NC	No	5395	775	4181	439
GRSM0056[1]	LITTLE TENNESSEE RIVER AT TAPOCO N C	No	345	0	0	345
GRSM0057[1]	FONTANA DAM SCROLL CASE	No	4583	407	2150	2026
GRSM0058	FONTANA DAM SCROLL CASE	No	0	0	0	0
GRSM0059[1]	LITTLE TENNESSEE R BELOW TAPOCO INACT-741127	No	138	0	0	138
GRSM0060	FONTANA LAKE	Yes	397	0	0	397
GRSM0061	FONTANA RESERVOIR	Yes	857	676	181	0
GRSM0062	FONTANA DAM TAILRACE	Yes	0	0	0	0
GRSM0063[1]	FONTANA LAKE AT FONTANA DAM INACT-790716	Yes	716	235	445	36
GRSM0064	FONTANA LAKE AT FONTANA DAM	Yes	18	18	0	0
GRSM0065	FONTANA LAKE AT FONTANA DAM	Yes	12	12	0	0
GRSM0066	CALDERWOOD LAKE NR SLICKROCK CREEK	No	146	146	0	0
GRSM0067	CALDERWOOD LAKE NR SLICKROCK CREEK	No	4	4	0	0
GRSM0068	CALDERWOOD LAKE NR SLICKROCK CREEK	No	12	12	0	0
GRSM0069[1]	FONTANA RESERVOIR	Yes	4922	3666	1256	0
GRSM0070[1]	OCONALUFTEE RIVER NR CHEROKEE NC INACT-750129	No	372	0	71	301
GRSM0071	TWENTYMILE CREEK	Yes	108	108	0	0

Station Period of Record Tabulation
From 08/02/46 To 01/09/95

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75
GRSM0072	TRIB. TO UNNAMED TRIB. 0.16 TO LITTLE TN R 55.15	Yes	614	481	133	0
GRSM0073[1]	OCONALUFTEE RIVER AT CHEROKEE NC INACT-750129	No	352	0	53	299
GRSM0074[1]	NOLAND CREEK NEAR BRYSON CITY, N. C.	Yes	159	0	0	159
GRSM0075	CALDERWOOD RESERVOIR	No	40	40	0	0
GRSM0076	PARSON BR NR CALDERWOOD TENN	No	26	0	0	26
GRSM0077	CALDERWOOD DAM RESERVOIR SIDE	No	168	0	168	0
GRSM0078[1]	CALDERWOOD POWERHOUSE PENSTOCK	No	3886	0	2197	1689
GRSM0079	LITTLE TENNESSEE RIVER AT CALDERWOOD POWERHOUSE	No	9	0	9	0
GRSM0080	CALDERWOOD LAKE	No	26	0	26	0
GRSM0081	EAGLE CREEK	Yes	108	108	0	0
GRSM0082	CHILHOWEE RESERVOIR	No	11	11	0	0
GRSM0083	CHILHOWEE RESERVOIR	No	70	70	0	0
GRSM0084		Yes	262	0	0	262
GRSM0085	STRAIGHT FORK CK @ SR1368 @RAVENSFORD IN-750224	Yes	259	0	71	188
GRSM0086	FORNEY CREEK	Yes	108	108	0	0
GRSM0087[1]	BRIDGE 100 FEET ABOVE MOUTH OF INDIAN CREEK	No	546	0	0	546
GRSM0088	OCONALUFTEE R @SR1368 N RAVENSFORD INACT-750224	Yes	211	0	40	171
GRSM0089	RICHLAND CREEK	Yes	91	0	0	91
GRSM0090	UNNAMED STREAM	Yes	89	0	0	89
GRSM0091	MINGUS CREEK AT RAVENSFORD	Yes	123	0	78	45
GRSM0092	RICHLAND CREEK	Yes	90	0	0	90
GRSM0093	FACTORY BRANCH	Yes	91	0	0	91
GRSM0094	TRIBUTARY TO RAVEN FORK 7.43	No	38	0	38	0
GRSM0095	FORNEY CREEK	Yes	27	27	0	0
GRSM0096	CHILHOWEE RESERVOIR	No	55	55	0	0
GRSM0097	CHILHOWEE RESERVOIR	No	26	0	0	26
GRSM0098	TRIBUTARY TO RAVEN FORK 7.43	No	7	0	7	0
GRSM0099	BUNCHES CREEK	No	54	54	0	0
GRSM0100	EAGLE CREEK	Yes	27	27	0	0
GRSM0101	STRAIGHT FORK CK BELOW RAVEN FORK INACT-750224	No	251	0	71	180
GRSM0102	BRIDGE AT SMOKEMONT CAMPGROUND	Yes	266	0	0	266
GRSM0103	CHILHOWEE RESERVOIR @ ABRAMS CREEK	No	75	75	0	0
GRSM0104	CHILHOWEE RESERVOIR - MOUTH OF ABRAMS CREEK	No	26	26	0	0
GRSM0105	ROAD CROSSING 0.5 MILE SW OF STRAIGHT FK MOUTH	No	297	0	0	297
GRSM0106	BUNCHES CREEK	No	108	108	0	0
GRSM0107	FORGE CREEK NEAR CADES COVE, TENN	Yes	26	0	0	26
GRSM0108	TRIBUTARY TO RAVEN FORK 7.43	No	37	0	37	0
GRSM0109	OCONALUFTEE R @US441 NR SMOKEMONT INACT-750224	Yes	259	0	71	188
GRSM0110	TRIBUTARY TO RAVEN FORK 8.38	No	85	0	85	0
GRSM0111	TRIBUTARY TO OCONOLUFTEE RIVER 10.26	No	57	0	57	0
GRSM0112	TRIBUTARY TO OCONALUFTEE RIVER 10.26	No	4784	0	4784	0
GRSM0113	TRIBUTARY TO OCONALUFTEE RIVER 10.26	No	2051	0	2051	0
GRSM0114	CHILHOWEE RESERVOIR	Yes	75	75	0	0
GRSM0115	TRIBUTARY TO RAVEN FORK 8.38	Yes	35	0	35	0
GRSM0116	TRIBUTARY TO RAVEN FORK 8.38	Yes	1520	0	1520	0
GRSM0117	CHILHOWEE RESERVOIR	Yes	75	75	0	0
GRSM0118	CHILHOWEE RESERVOIR	Yes	74	74	0	0
GRSM0119	CHILHOWEE RESERVOIR	Yes	81	81	0	0
GRSM0120	ABRAMS CR BELOW CADES COVE TENN	Yes	27	0	0	27
GRSM0121	CHILHOWEE RESERVOIR	Yes	80	80	0	0
GRSM0122	CHILHOWEE RESERVOIR	Yes	74	74	0	0
GRSM0123	CHILHOWEE RESERVOIR	Yes	0	0	0	0
GRSM0124	CHILHOWEE RESERVOIR	Yes	0	0	0	0
GRSM0125	GOSHEN PRONG AB ELKMONT	Yes	16	16	0	0
GRSM0126	LAKE HARTWELL	Yes	169	0	0	169
GRSM0127	CHILHOWEE RESERVOIR	Yes	92	92	0	0
GRSM0128	CHILHOWEE RESERVOIR	Yes	103	103	0	0
GRSM0129	SLIDE HOLLOW AB ELKMONT	Yes	16	16	0	0
GRSM0130	CHILHOWEE RESERVOIR	Yes	40	40	0	0
GRSM0131	CHILHOWEE RESERVOIR	Yes	72	72	0	0
GRSM0132	ROUGH FORK NR NELLIE	Yes	16	16	0	0
GRSM0133	CHILHOWEE RESERVOIR	Yes	69	69	0	0
GRSM0134	TRIBUTARY TO RAVEN FORK 8.38	Yes	45	0	45	0
GRSM0135	SAMS CR AB TOWNSEND	Yes	16	16	0	0
GRSM0136	ABOVE ENLOE CREEK	Yes	22	0	22	0
GRSM0137	TRIBUTARY TO OCONOLUFTEE RIVER 10.26	Yes	101	0	101	0
GRSM0138	TRIBUTARY TO RAVEN FORK 12.50	Yes	85	0	85	0
GRSM0139	TRIBUTARY TO UNNAMED TRIB. 0.17 TO RAVEN F 13.19	Yes	38	0	38	0
GRSM0140	LAUREL CR AB TOWNSEND	Yes	16	16	0	0
GRSM0141	TRIBUTARY TO ENLOE CREEK 0.62	Yes	6	0	6	0
GRSM0142	TRIBUTARY TO RAVEN FORK 12.50	Yes	32	0	32	0

Station Period of Record Tabulation
From 08/02/46 To 01/09/95

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75
GRSM0143	TRIBUTARY TO RAVEN FORK 13.19	Yes	38	0	38	0
GRSM0144	LYNN CAMP PRONG NR BLANKET MT TENN	Yes	26	0	0	26
GRSM0145	TRIBUTARY TO RAVEN FORK 13.49	Yes	38	0	38	0
GRSM0146	TRIBUTARY TO RAVEN FORK 12.5	Yes	38	0	38	0
GRSM0147	FISH CAMP PRONG AB ELKMONT	Yes	18	18	0	0
GRSM0148	TRIBUTARY TO ENLOE CREEK 1.38	Yes	38	0	38	0
GRSM0149	LITTLE R AB FISH CAMP PRONG AB ELKMONT	Yes	18	18	0	0
GRSM0150	TRIBUTARY TO RAVEN FORK 8.38	Yes	38	0	38	0
GRSM0151	ROUGHFORK CK NR CATALOOCHEE NC INACT-791024	Yes	78	0	78	0
GRSM0152	LITTLE RIVER	Yes	27	27	0	0
GRSM0153	WEST PRONG AB LAUREL CR AB TOWNSEND	Yes	16	16	0	0
GRSM0154	CALDWELL FORK NR NELLIE	Yes	16	16	0	0
GRSM0155	PALMER CK @ SR1164 NR CATALOOCHEE INACT-791024	Yes	78	0	78	0
GRSM0156	PALMER CR AT NELLIE	Yes	16	16	0	0
GRSM0157	CALABASH CK 1.2 MI US SR1164 INACT-791024	Yes	86	0	86	0
GRSM0158	PALMER CR AT CAMPGROUND NR NELLIE	Yes	16	16	0	0
GRSM0159	LOWER DOUBLE BRANCH NR NELLIE	Yes	16	16	0	0
GRSM0160	TRIBUTARY TO RAVEN FORK 13.49	Yes	38	0	38	0
GRSM0161	W P LT PIGEON R NR MT LE CONTE TN	Yes	26	0	0	26
GRSM0162	PALMER CR AB PRETTY HOLLOW NR NELLIE	Yes	16	16	0	0
GRSM0163	TRIBUTARY TO RIGHT FORK 1.03	Yes	76	0	76	0
GRSM0164	MI PR LITTLE R AT WALKER FIELDS NR TOWNSEND T	Yes	27	0	0	27
GRSM0165	PRETTY HOLLOW NR NELLIE	Yes	16	16	0	0
GRSM0166	TRIBUTARY TO RIGHT FORK 1.03	Yes	7	0	7	0
GRSM0167	TRIBUTARY TO RAVEN FORK 16.74 ABOVE RAPID CREEK	Yes	39	0	39	0
GRSM0168	TRIBUTARY TO RIGHT FORK 0.56	Yes	38	0	38	0
GRSM0169	TRIBUTARY TO RAVEN FORK 16.74	Yes	7	0	7	0
GRSM0170	JAKES CR NR ELKMONT	Yes	16	16	0	0
GRSM0171	W PRONG LITTLE PIGEON R 7.7 QUAD 156SE	Yes	44	0	44	0
GRSM0172	WINDING STAIR BRANCH NR NELLIE	Yes	16	16	0	0
GRSM0173	TRIBUTARY TO ENLOE CREEK 4.91	Yes	44	0	44	0
GRSM0174	LITTLE R AB ELKMONT	Yes	18	18	0	0
GRSM0175	TRIBUTARY TO ENLOE CREEK 5.35	Yes	63	0	63	0
GRSM0176	MEADOW BRANCH AB TOWNSEND	Yes	16	16	0	0
GRSM0177	LAKE IN THE SKY	No	26	0	26	0
GRSM0178	LITTLE R AT ELKMONT TENN	Yes	26	0	0	26
GRSM0179	WEST PRONG AB TOWNSEND	Yes	16	16	0	0
GRSM0180	MIDDLE PRONG AB TOWNSEND	Yes	16	16	0	0
GRSM0181	NEAR LRM 35.6/THE WYE/SMOKEY MT PARK/QUAD 157NW	Yes	0	0	0	0
GRSM0182[1]	LITTLE R. AB TOWNSEND	Yes	2901	1993	274	634
GRSM0183	LITTLE R BLW ELKMONT	Yes	18	18	0	0
GRSM0184[1]	CATALOOCHEE CREEK NEAR CATALOOCHEE N C	Yes	8205	2124	3720	2361
GRSM0185[1]	CATALOOCHEE CREEK NEAR CATALOOCHEE NC	Yes	9286	2882	5069	1335
GRSM0186	COMPUTED VALUES CATALOOCHEE CR N	Yes	35	0	35	0
GRSM0187	CATALOOCHEE CREEK NR CATALOOCHEE	Yes	0	0	0	0
GRSM0188	CATTALOOCHEE CREEK @ CATTALOOCHEE	Yes	101	0	101	0
GRSM0189	LITTLE CATALOOCHEE CK NR CATALOOCHEE INA-791024	Yes	84	0	84	0
GRSM0190	LITTLE RIVER	Yes	108	108	0	0
GRSM0191	LAUREL LAKE	No	26	0	26	0
GRSM0192	W PRONG LITTLE PIGEON R 21.9 QUAD 157NE	Yes	54	0	54	0
GRSM0193	AT WHITE OAK CREEK	No	378	0	378	0
GRSM0194	CORRELL BRANCH	Yes	108	108	0	0
GRSM0195	FALSE GAP PRONG	Yes	27	27	0	0
GRSM0196	LITTLE RIVER AT KINZEL SPRINGS, TN	No	25	25	0	0
GRSM0197	WATERVILLE LAKE @ MOUTH OF WILKINS CREEK	No	155	155	0	0
GRSM0198	WATERVILLE LAKE @ MOUTH OF WILKINS CREEK	No	3	3	0	0
GRSM0199	WATERVILLE LAKE @ MOUTH OF WILKINS CREEK	No	11	11	0	0
GRSM0200	WALTERS LAKE	No	500	0	500	0
GRSM0201	TRIBUTARY TO PIGEON RIVER 38.05	No	35	0	35	0
GRSM0202[1]		Yes	770	0	127	643
GRSM0203	WATERVILLE LAKE IN CATALOOCHEE CREEK ARM	No	110	110	0	0
GRSM0204	WATERVILLE LAKE IN CATALOOCHEE CREEK ARM	No	3	3	0	0
GRSM0205	WATERVILLE LAKE IN CATALOOCHEE CREEK ARM	No	11	11	0	0
GRSM0206	CORRELL BRANCH	Yes	27	27	0	0
GRSM0207	TRIBUTARY TO PIGEON RIVER 38.05	No	56	0	56	0
GRSM0208	WALTERS LAKE	No	26	0	26	0
GRSM0209	MOUTH AT PIGEON RIVER 38.05	No	406	0	406	0
GRSM0210	WATERVILLE LAKE AT DAM NR HEPCO NC	No	187	187	0	0
GRSM0211	WATERVILLE LAKE AT DAM NR HEPCO NC	No	3	3	0	0
GRSM0212	WATERVILLE LAKE AT DAM NR HEPCO NC	No	11	11	0	0
GRSM0213	FALSE GAP PRONG	Yes	108	108	0	0

Station Period of Record Tabulation
From 08/02/46 To 01/09/95

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75
GRSM0214	SV:E-11, GATLINBURG, TN (GAT-5)	No	49	0	49	0
GRSM0215[1]	OWNBY STREET BRIDGE 0.2 MILE ABOVE LE CONTE CR.	No	272	0	59	213
GRSM0216	SV:E-5,GATLINBURG,TN.(GAT-9)	No	50	0	50	0
GRSM0217	SV:E-2,GATLINBURG,TN.(GAT-6)	No	51	0	51	0
GRSM0218	W PRONG LITTLE PIGEON R 16.35 QUAD 157NE	No	61	0	61	0
GRSM0219	W PRONG LITTLE PIGEON R 16.4 QUAD 157NE	No	62	0	62	0
GRSM0220	COVE CREEK AT HATCHERTOWN, TN	No	29	15	14	0
GRSM0221	DUDLEY CR NR GATLINBURG TENN	Yes	26	0	0	26
GRSM0222[1]	ABOVE SEWAGE DISPOSAL PLANT	Yes	436	0	61	375
GRSM0223	WP L PIGEON R AT GATLINBURG TENN	Yes	90	0	0	90
GRSM0224	LITTLE PIGEON R 25.4 QUAD 165NW	Yes	0	0	0	0
GRSM0225	WALDEN CREEK 3.4 QUAD 156SE	Yes	53	0	53	0
GRSM0226	LITTLE PIGEON R 25.5 QUAD 165NW	Yes	36	0	36	0
GRSM0227	LITTLE PIGEON R NR PITTMAN CENTER TENN	No	26	0	0	26
GRSM0228	NORTON BRANCH 0.0 QUAD 157NE	Yes	9	0	9	0
GRSM0229	TRIBUTARY TO PIGEON RIVER 13.6	Yes	1316	468	848	0
GRSM0230	PIGEON RIVER EXPOSURE RISK STUDY	Yes	252	0	252	0
GRSM0231	PIGEON RIVER EXPOSURE RISK STUDY	Yes	95	0	95	0
GRSM0232	LITTLE PIGEON R 23.0 QUAD 164SW	Yes	0	0	0	0
GRSM0233	WEBB CR 2.5 QUAD 164SE	No	0	0	0	0
GRSM0234	WEBB CR 0.0 QUAD 164SW	No	61	0	61	0
GRSM0235	WEBB CR 0.06 QUAD 164SW	No	0	0	0	0
GRSM0236	WEBB CR 2.3 QUAD 164SE	No	71	0	71	0
GRSM0237	COSBY CREEK	Yes	108	108	0	0
GRSM0238	WEBB CREEK NR PITTMAN CENTER, TN	No	3	0	3	0
GRSM0239	WEBB CR 3.6 QUAD 164SW	No	71	0	71	0
GRSM0240	COSBY CR NR BLUFFTON TENN	Yes	26	0	0	26
GRSM0241	WEBB CR 5.7 QUAD 164SE	No	0	0	0	0
GRSM0242	BELOW GNATTY BRANCH	Yes	12	0	0	12
GRSM0243	W PRONG LITTLE PIGEON R 12.5 QUAD 156SE	No	0	0	0	0
GRSM0244	PIGEON RIVER	No	440	0	0	440
GRSM0245	PIGEON RIVER 26.0 QUAD 173SE	No	27	0	27	0
GRSM0246	WATERVILLE LAKE HYDROELEC TUNNEL	No	70	0	0	70
GRSM0247	WATERVILLE RESERVOIR	No	241	0	0	241
GRSM0248	BRIDGE SSE OF PIGEON FORGE	No	209	0	45	164
GRSM0249[1]	PIGEON RIVER AT WATERVILLE N C	No	1784	0	0	1784
GRSM0250	BR. 1.3 MI. NW OF PITTMAN CENTER	No	641	4	637	0
GRSM0251	LITTLE PIGEON RIVER AT LAUREL, TN	No	492	0	492	0
GRSM0252	CRYING CREEK ABOVE COSBY, TN	Yes	29	15	14	0
GRSM0253	PIGEON R AT CO HWY NR WATERVILLE	No	120	0	0	120
GRSM0254	COSBY CREEK ABOVE COSBY, TN	Yes	231	28	203	0
GRSM0255	COSBY CREEK	Yes	27	27	0	0
GRSM0256[1]	PIGEON RIVER AT WATERVILLE NC	No	8353	2805	4411	1137
GRSM0257	WATERVILLE RESERVOIR	No	163	0	0	163
GRSM0258	BELOW TOBES CREEK - 1.1 MILES NW OF WATERVILLE	No	245	0	91	154
GRSM0259	COSBY CREEK	No	108	108	0	0
GRSM0260	GREENBRIER CREEK AT COSBY, TN	No	45	10	35	0
GRSM0261	PIGEON RIVER	No	242	0	0	242
GRSM0262	BRIDGE NEAR HARTFORD	No	432	0	432	0
GRSM0263		No	2	0	0	2
GRSM0264[1]	PIGEON R 20.4 N.C. LIGHT/PWR DISCH QUAD 173SW	No	2014	1488	526	0
GRSM0265	NORTH OF DENTON	No	15	15	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 08/02/46 To 01/09/95

Parameter Code	Name	Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
00002	X-SEC. LOC., HORIZ (% FROM R BANK LOOK UPSTR.)	3182	1339	1493	350	88	46
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	3990	2053	1568	369	130	63
00004	STREAM WIDTH (FEET)	204	198	6	0	3	1
00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	1011	298	349	364	61	27
00009	X-SEC. LOC.(FT FROM LEFT BANK LOOKING DOWNSTRM)	23	23	0	0	2	2
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	9191	2408	4193	2590	171	89
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	3	3	0	0	2	1
00019	SAMPLE WEIGHT IN GRAMS	84	84	0	0	7	3
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	529	324	174	31	9	3
00023	SAMPLE WEIGHT IN POUNDS	96	0	17	79	13	5
00025	BAROMETRIC PRESSURE (MM OF HG)	81	72	9	0	3	2
00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	273	153	116	4	32	25
00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	329	153	123	53	32	25
00032	CLOUD COVER (PERCENT)	1148	292	682	174	21	10
00035	WIND VELOCITY (MILES PER HOUR)	160	160	0	0	3	1
00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	813	153	509	151	20	9
00037	WIND FORCE (BEAUFORT UNITS)	931	85	671	175	21	10
00039	SAMPLE LENGTH IN MILLIMETERS	84	84	0	0	7	3
00042	ALTITUDE IN FEET ABOVE MEAN SEA LEVEL	1	0	1	0	1	1
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	1124	279	669	176	20	9
00049	SURFACE AREA IN SQUARE MILES	105	0	0	105	3	1
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	3	0	3	0	3	0
00060	FLOW, STREAM, MEAN DAILY CFS	388	7	23	358	26	13
00061	FLOW, STREAM, INSTANTANEOUS CFS	3915	588	2368	959	43	22
00062	ELEVATION, RESERVOIR SURFACE WATER IN FEET	7	7	0	0	1	1
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	16	0	16	0	8	5
00064	DEPTH OF STREAM, MEAN (FT)	248	242	6	0	19	14
00065	STAGE, STREAM (FEET)	1031	245	696	90	13	5
00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	6	6	0	0	1	0
00070	TURBIDITY, (JACKSON CANDLE UNITS)	430	1	241	188	29	8
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	173	0	0	173	8	5
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	903	337	453	113	35	15
00077	TRANSPARENCY, SECCHI DISC (INCHES)	39	6	8	25	15	9
00078	TRANSPARENCY, SECCHI DISC (METERS)	189	66	115	8	27	9
00080	COLOR (PLATINUM-COBALT UNITS)	1014	192	355	467	80	38
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	364	57	200	107	19	4
00082	COLOR,SPECTROPHOTO,WATER SMPL AT7.6PH ADMI UNITS	43	43	0	0	1	0
00083	COLOR,SPECTROPHTOMETRIC,FIL,WATER SPL ADMI UNITS	45	45	0	0	1	0
00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)	26	0	0	26	3	1
00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	109	0	109	0	3	2
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	2436	1830	506	100	54	28
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	2957	291	2060	606	137	80
00098	SAMPLING STATION LOCATION VERTICAL (METERS)	941	83	858	0	44	26
00115	SAMPLE TREATMENT CODE (1=RAW,2=TREATED)	1	1	0	0	1	1
00117	PRECIPITATION,DURATION OF STORM EVENT, MINUTES	6	0	6	0	1	0
00123	PRECIPITATION,CUMULATIVE AT GIVEN TIME,LOC.1(IN)	328	0	328	0	1	0
00132	DRY DAYS PRECEDING PRECIPITATION EVENT,(DAYS)	5	0	5	0	1	0
00134	STORM EVENT SERIAL NUMBER MAXIMUM OF 6 SIG.FIG.	92	0	92	0	1	0
00154	SULFATE (AS S) WHOLE WATER, MG/L	6	0	6	0	6	1
00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	9	9	0	0	9	5
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	44	44	0	0	16	13
00300	OXYGEN, DISSOLVED MG/L	8459	2327	3684	2448	134	70
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	600	27	378	195	23	11
00303	BOD, 1DAY, 20 DEG C MG/L	14	0	14	0	3	0
00304	BOD, 2 DAY, 20 DEG C MG/L	14	0	14	0	3	0
00305	BOD, 3 DAY, 20 DEG C MG/L	14	0	14	0	3	0
00306	BOD, 4 DAY, 20 DEG C MG/L	14	0	14	0	3	0
00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	26	0	13	13	10	5
00310	BOD, 5 DAY, 20 DEG C MG/L	1430	212	786	432	62	29
00312	BOD, 6 DAY, 20 DEG C MG/L	14	0	14	0	3	0
00315	BOD, 7 DAY, 20 DEG C MG/L	14	0	14	0	3	0
00316	BOD, 8 DAY, 20 DEG C MG/L	13	0	13	0	3	0
00317	BOD, 9 DAY, 20 DEG C MG/L	9	0	9	0	3	0
00322	BOD, 10 DAY, 20 DEG C MG/L	14	0	14	0	3	0
00323	BOD, 15 DAY, 20 DEG C MG/L	6	0	6	0	2	0
00324	BOD, 20 DAY, 20 DEG C MG/L	39	13	26	0	3	0
00326	BOD, 28 DAY, 20 DEG C MG.L	4	0	2	2	3	1
00327	BOD, 11DAY, 20 DEG C MG/L	12	0	12	0	2	0
00328	BOD, 12 DAY, 20 DEG C MG/L	4	0	4	0	2	0
00329	BOD, 13 DAY, 20 DEG C MG/L	12	0	12	0	2	0
00331	BOD, 16 DAY, 20 DEG C MG/L	1	0	1	0	1	0

Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Parameter Code	Name	Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
00332	BOD, 17 DAYS, 20 DEG C MG/L	1	0	1	0	1	0
00333	BOD, 18 DAY, 20 DEG C MG/L	12	0	12	0	2	0
00334	BOD, 19 DAY, 20 DEG C MG/L	2	0	2	0	1	0
00335	COD, .025N K2CR2O7 MG/L	531	54	377	100	28	9
00336	BOD, 22 DAY, 20 DEG C MG/L	12	0	12	0	2	0
00337	BOD, 23 DAY, 20 DEG C MG/L	1	0	1	0	1	0
00338	BOD, 24 DAY, 20 DEG C MG/L	1	0	1	0	1	0
00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	3	0	0	3	3	1
00340	COD, .25N K2CR2O7 MG/L	500	0	416	84	19	12
00345	BOD, 25 DAY, 20 DEG C MG/L	12	0	12	0	2	0
00346	BOD, 26 DAY, 20 DEG C MG/L	2	0	2	0	1	0
00347	BOD, 27 DAY, 20 DEG C MG/L	12	0	12	0	2	0
00348	BOD, 29 DAY, 20 DEG C MG/L	12	0	12	0	2	0
00349	BOD, 30 DAY, 20 DEG C MG/L	1	0	1	0	1	0
00350	BOD, 14 DAY, 20 DEG C MG/L	2	0	2	0	1	0
00351	BOD, 21 DAY, 20 DEG C MG/L	2	0	2	0	1	0
00352	BOD, 35 DAY, 20 DEG C MG/L	1	0	1	0	1	0
00353	BOD, 42 DAY, 20 DEG C MG/L	13	0	13	0	3	0
00354	BOD, 49 DAY, 20 DEG C MG	1	0	1	0	1	0
00355	BOD, 56 DAY, 20 DEG C MG/L	1	0	1	0	1	0
00356	BOD, 63 DAY, 20 DEG C MG/L	14	0	14	0	3	0
00357	BOD, 70 DAY, 20 DEG C MG/L	14	0	14	0	3	0
00358	BOD, 77 DAY, 20 DEG C MG/L	14	0	14	0	3	0
00361	BOD, 98 DAY, 20 DEG C MG/L	14	0	14	0	3	0
00362	BOD, 40 DAY, 20 DEG C MG/L	2	0	2	0	1	0
00363	BOD, 50 DAY, 20 DEG C MG/L	10	0	10	0	2	0
00364	BOD, 100 DAY, 20 DEG C MG/L	14	0	14	0	3	0
00400	PH (STANDARD UNITS)	5598	1946	2725	927	140	76
00403	PH, LAB, STANDARD UNITS SU	1017	420	582	15	103	69
00405	CARBON DIOXIDE (MG/L AS CO2)	79	0	55	24	9	4
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	50	44	6	0	22	14
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	2282	322	1180	780	125	71
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	1144	4	741	399	64	34
00418	ALKALINITY,CARBONATE,INCREMENTAL TIT.USGS LAB MG/L	6	6	0	0	1	1
00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	4	4	0	0	1	1
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	7	0	7	0	4	1
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	420	222	198	0	8	2
00435	ACIDITY, TOTAL (MG/L AS CACO3)	31	10	13	8	24	12
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	7	1	1	5	4	1
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	15	0	0	15	1	0
00440	BICARBONATE ION (MG/L AS HCO3)	363	48	63	252	39	27
00445	CARBONATE ION (MG/L AS CO3)	146	0	50	96	20	11
00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	4	4	0	0	1	1
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	12	12	0	0	1	1
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	39	39	0	0	2	2
00480	SALINITY - PARTS PER THOUSAND	2	2	0	0	1	0
00500	RESIDUE, TOTAL (MG/L)	812	264	411	137	45	18
00505	RESIDUE, TOTAL VOLATILE (MG/L)	225	5	182	38	19	12
00510	RESIDUE, TOTAL FIXED (MG/L)	225	5	182	38	19	12
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	194	58	30	106	27	12
00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	24	0	7	17	12	5
00525	RESIDUE, FIXED FILTRABLE (MG/L)	15	0	0	15	3	0
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	1366	442	757	167	85	47
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	223	5	185	33	19	12
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	220	5	182	33	19	12
00546	RESIDUE, SETTLEABLE (MG/L)	1	0	0	1	1	0
00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	22	0	19	3	5	4
00573	BIOMASS, PERIPHYTON,DRY WEIGHT TOTAL (G/M2)	22	0	19	3	5	4
00600	NITROGEN, TOTAL (MG/L AS N)	69	0	45	24	15	7
00602	NITROGEN, DISSOLVED (MG/L AS N)	12	0	12	0	1	1
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	455	19	283	153	27	11
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	41	0	32	9	3	2
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	138	72	44	22	6	3
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	1787	420	944	423	126	70
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	3	0	3	0	2	2
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	82	69	0	13	5	2
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	222	22	19	181	25	13
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	44	23	1	20	28	24
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	201	0	19	182	23	12
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	45	2	33	10	3	3
00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	38	0	30	8	2	2

Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Parameter Code	Name	Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	1101	290	513	298	65	30
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	4	0	2	2	1	1
00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	3	0	3	0	2	2
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	1594	387	850	357	107	50
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	134	72	52	10	4	3
00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	7	0	5	2	3	3
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	129	65	64	0	12	5
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	137	0	114	23	25	18
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	175	34	61	80	18	8
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	113	0	61	52	34	19
00662	PHOSPHORUS (P), WATER, TOTAL RECOVERABLE UG/L	6	0	6	0	6	1
00665	PHOSPHORUS, TOTAL (MG/L AS P)	1815	477	855	483	136	68
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	245	72	91	82	22	12
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	10	0	5	5	6	4
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	429	111	49	269	46	36
00677	PHOSPHORUS,HYDROLYZABLE + ORTHO,DIS,AUTOANALYZER	49	0	49	0	3	2
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	226	16	193	17	42	23
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	249	78	161	10	47	33
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	4	0	2	2	1	1
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	7	0	7	0	1	1
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	50	44	6	0	22	14
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	34	0	24	10	15	7
00721	CYANIDE IN BOTTOM DEPOSITS (MG/KG AS CN DRY WGT)	1	0	1	0	1	1
00740	SULFITE (MG/L AS SO3)	31	0	11	20	13	5
00745	SULFIDE, TOTAL (MG/L AS S)	36	3	2	31	8	2
00900	HARDNESS, TOTAL (MG/L AS CACO3)	726	322	146	258	42	26
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	294	4	47	243	23	14
00910	CALCIUM (MG/L AS CACO3)	21	0	6	15	7	1
00915	CALCIUM, DISSOLVED (MG/L AS CA)	513	172	98	243	65	51
00916	CALCIUM, TOTAL (MG/L AS CA)	473	9	341	123	50	30
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	5	4	1	0	4	3
00920	MAGNESIUM (MG/L AS CACO3)	15	0	0	15	1	0
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	9	5	4	0	6	4
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	519	172	104	243	71	52
00927	MAGNESIUM, TOTAL (MG/L AS MG)	484	9	336	139	54	30
00929	SODIUM, TOTAL (MG/L AS NA)	468	8	328	132	49	30
00930	SODIUM, DISSOLVED (MG/L AS NA)	519	172	104	243	71	52
00931	SODIUM ADSORPTION RATIO	148	4	47	97	22	13
00932	SODIUM, PERCENT	148	4	47	97	22	13
00933	SODIUM,PLUS POTASSIUM (MG/L)	3	0	3	0	1	1
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	1	0	1	0	1	1
00935	POTASSIUM, DISSOLVED (MG/L AS K)	519	172	104	243	71	52
00937	POTASSIUM, TOTAL MG/L AS K)	456	6	318	132	45	29
00940	CHLORIDE,TOTAL IN WATER MG/L	940	98	407	435	97	65
00941	CHLORIDE, DISSOLVED IN WATER MG/L	50	44	6	0	22	14
00945	SULFATE, TOTAL (MG/L AS SO4)	976	137	433	406	95	63
00946	SULFATE, DISSOLVED (MG/L AS SO4)	124	80	44	0	21	16
00950	FLUORIDE, DISSOLVED (MG/L AS F)	629	172	217	240	91	67
00951	FLUORIDE, TOTAL (MG/L AS F)	263	0	161	102	19	4
00955	SILICA, DISSOLVED (MG/L AS SI02)	664	138	269	257	96	65
00956	SILICA, TOTAL (MG/L AS SI02)	228	0	104	124	32	21
01000	ARSENIC, DISSOLVED (UG/L AS AS)	99	37	26	36	17	8
01001	ARSENIC, SUSPENDED (UG/L AS AS)	17	0	7	10	1	1
01002	ARSENIC, TOTAL (UG/L AS AS)	520	237	254	29	25	14
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	28	1	22	5	13	9
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	24	11	13	0	7	4
01005	BARIUM, DISSOLVED (UG/L AS BA)	67	57	10	0	2	2
01006	BARIUM, SUSPENDED (UG/L AS BA)	4	0	4	0	1	1
01007	BARIUM, TOTAL (UG/L AS BA)	35	0	29	6	12	3
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	4	0	1	3	4	2
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	47	37	10	0	2	2
01012	BERYLLIUM, TOTAL (UG/L AS BE)	21	2	15	4	8	2
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	4	0	1	3	4	2
01022	BORON, TOTAL (UG/L AS B)	6	0	3	3	3	1
01025	CADMIUM, DISSOLVED (UG/L AS CD)	63	37	11	15	5	3
01026	CADMIUM, SUSPENDED (UG/L AS CD)	15	0	5	10	1	1
01027	CADMIUM, TOTAL (UG/L AS CD)	596	244	329	23	41	22
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	32	5	22	5	16	11
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	34	5	24	5	16	11
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	124	37	46	41	18	9
01031	CHROMIUM, SUSPEND (UG/L AS CR)	33	0	23	10	2	2

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Parameter Code	Name	Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	5	0	4	1	5	1
01034	CHROMIUM, TOTAL (UG/L AS CR)	525	199	295	31	39	24
01035	COBALT, DISSOLVED (UG/L AS CO)	80	57	11	12	3	3
01036	COBALT, SUSPENDED (UG/L AS CO)	11	0	0	11	2	1
01037	COBALT, TOTAL (UG/L AS CO)	201	3	179	19	18	12
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	7	0	2	5	6	4
01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	5	0	5	0	5	5
01040	COPPER, DISSOLVED (UG/L AS CU)	131	37	47	47	19	8
01041	COPPER, SUSPENDED (UG/L AS CU)	31	0	21	10	2	2
01042	COPPER, TOTAL (UG/L AS CU)	677	244	380	53	66	41
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	29	5	19	5	12	7
01044	IRON, SUSPENDED (UG/L AS FE)	8	0	8	0	1	1
01045	IRON, TOTAL (UG/L AS FE)	980	147	556	277	75	40
01046	IRON, DISSOLVED (UG/L AS FE)	328	80	106	142	55	38
01047	IRON, FERROUS (UG/L AS FE)	82	0	3	79	8	5
01049	LEAD, DISSOLVED (UG/L AS PB)	84	37	30	17	5	4
01050	LEAD, SUSPENDED (UG/L AS PB)	32	0	22	10	2	2
01051	LEAD, TOTAL (UG/L AS PB)	616	243	343	30	42	23
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	34	5	24	5	16	11
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	11	4	2	5	9	6
01054	MANGANESE, SUSPENDED (UG/L AS MN)	13	0	3	10	1	1
01055	MANGANESE, TOTAL (UG/L AS MN)	801	92	535	174	73	40
01056	MANGANESE, DISSOLVED (UG/L AS MN)	300	124	93	83	63	42
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	67	57	10	0	2	2
01061	MOLYBDENUM, SUSPENDED (UG/L AS MO)	1	0	1	0	1	0
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	4	0	4	0	2	1
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	4	0	1	3	4	2
01065	NICKEL, DISSOLVED (UG/L AS NI)	69	57	5	7	5	2
01067	NICKEL, TOTAL (UG/L AS NI)	392	198	177	17	55	33
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	22	5	14	3	11	6
01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	24	6	18	0	6	3
01073	THALLIUM,TISSUE,WET WEIGHT,MG/KG	6	6	0	0	2	1
01075	SILVER, DISSOLVED (UG/L AS AG)	111	57	27	27	15	7
01076	SILVER, SUSPENDED (UG/L AS AG)	5	0	5	0	1	1
01077	SILVER, TOTAL (UG/L AS AG)	40	2	33	5	12	3
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	4	0	1	3	4	2
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	73	57	11	5	3	3
01082	STRONTIUM, TOTAL (UG/L AS SR)	1	0	1	0	1	1
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	4	0	1	3	4	2
01085	VANADIUM, DISSOLVED (UG/L AS V)	67	57	10	0	2	2
01087	VANADIUM, TOTAL (UG/L AS V)	3	0	3	0	2	1
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	4	0	1	3	4	2
01090	ZINC, DISSOLVED (UG/L AS ZN)	112	37	32	43	9	4
01091	ZINC, SUSPENDED (UG/L ZN)	30	0	20	10	2	2
01092	ZINC, TOTAL (UG/L AS ZN)	719	243	426	50	68	43
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	26	5	16	5	12	7
01097	ANTIMONY, TOTAL (UG/L AS SB)	2	0	2	0	2	1
01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	4	0	1	3	4	2
01099	ANTIMONY,TISSUE,WET WEIGHT,MG/KG	7	6	0	1	3	1
01102	TIN, TOTAL (UG/L AS SN)	2	0	2	0	2	1
01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	4	0	1	3	4	2
01105	ALUMINUM, TOTAL (UG/L AS AL)	546	252	282	12	63	41
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	234	119	108	7	30	21
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	12	5	4	3	9	5
01130	LITHIUM, DISSOLVED (UG/L AS LI)	71	57	10	4	2	2
01132	LITHIUM, TOTAL (UG/L AS LI)	63	2	30	31	19	6
01133	LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	3	0	0	3	3	1
01145	SELENIUM, DISSOLVED (UG/L AS SE)	67	57	10	0	2	2
01146	SELENIUM, SUSPENDED (UG/L AS SE)	5	0	5	0	1	1
01147	SELENIUM, TOTAL (UG/L AS SE)	27	2	22	3	10	4
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	4	0	1	3	4	2
01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	11	11	0	0	4	3
01152	TITANIUM, TOTAL (UG/L AS TI)	16	0	12	4	6	2
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	1	0	1	0	1	1
01162	ZIRCONIUM, TOTAL (UG/L AS ZR)	1	0	1	0	1	1
01163	ZIRCONIUM IN BOTTOM DEPOSITS (MG/KG AS ZR DRY WT)	1	0	1	0	1	1
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	13	4	4	5	9	6
01203	YTTRIUM, TOTAL (UG/L AS Y)	1	0	1	0	1	1
01300	OIL-GREASE (SEVERITY)	733	89	530	114	20	9
01305	DETERGENT SUDS (SEVERITY)	758	89	541	128	20	9
01315	SLUDGE, FLOATING (SEVERITY)	734	89	530	115	20	9

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01325	ALGAE, FLOATING MATS (SEVERITY)	262	88	174	0	4	1
01330	ODOR, ATMOSPHERIC (SEVERITY)	752	89	545	118	20	9
01340	FISH, DEAD (SEVERITY)	739	89	530	120	20	9
01345	DEBRIS, FLOATING (SEVERITY)	744	89	540	115	20	9
01350	TURBIDITY (SEVERITY)	1137	294	669	174	21	10
01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE	1091	293	643	155	21	10
01501	ALPHA, TOTAL	1	0	0	1	1	0
01502	ALPHA, TOTAL, COUNTING ERROR	1	0	0	1	1	0
01503	ALPHA, DISSOLVED	1	0	0	1	1	0
01504	ALPHA, DISSOLVED, COUNTING ERROR	1	0	0	1	1	0
01505	ALPHA, SUSPENDED	1	0	0	1	1	0
01506	ALPHA, SUSPENDED, COUNTING ERROR	1	0	0	1	1	0
01515	ALPHA, DISSOLVED GROSS, AS URANIUM-NATURAL, PC/L	8	0	3	5	2	2
01516	ALPHA, SUSPEND GROSS, AS URANIUM NATURAL, PC/L	7	0	2	5	2	2
03501	BETA, TOTAL	4	0	0	4	1	0
03502	BETA, TOTAL, COUNTING ERROR	1	0	0	1	1	0
03503	BETA, DISSOLVED	1	0	0	1	1	0
03504	BETA, DISSOLVED, COUNTING ERROR	1	0	0	1	1	0
03505	BETA, SUSPENDED	1	0	0	1	1	0
03506	BETA, SUSPENDED, COUNTING ERROR	1	0	0	1	1	0
03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	41	25	7	9	2	2
03516	BETA, SUSPENDED GROSS, AS CS-137, PC/L	41	25	7	9	2	2
04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	4	4	0	0	2	2
04127	ALPHA, SUSPENDED, DRY WEIGHT,SED (AS TH-230) PCI/L	4	4	0	0	2	2
09510	RADIUM 226, DISSOLVED, PLANCHET COUNT	2	0	0	2	2	2
09511	RADIUM 226, DISSOLVED, RADON METHOD	41	27	7	7	2	2
13501	STRONTIUM 90, TOTAL	1	0	0	1	1	0
15501	STRONTIUM 89, TOTAL	1	0	0	1	1	0
22703	URANIUM, NATURAL, DISSOLVED	25	23	0	2	2	2
30344	PENTACHLORODIBENZO-P-DIOXIN,12378,FISH,WET WT,PG/G	3	0	3	0	1	1
30345	HEXACHLORODIBENZO-P-DIOXIN,123478,FISH,WET WT,PG/G	3	0	3	0	1	1
30346	HEXACHLORODIBENZO-P-DIOXIN,123678,FISH,WET WT,PG/G	3	0	3	0	1	1
30347	HEXACHLORODIBENZO-P-DIOXIN,123789,FISH,WET WT,PG/G	3	0	3	0	1	1
30348	HEPTACHLORODIBENZO-P-DIOXIN,1234678,TIS,WETWT,PG/G	3	0	3	0	1	1
30349	TETRACHLORODIBENZOFURAN, 2378- , FISH,WET WT.,PG/G	3	0	3	0	1	1
30350	PENTACHLORODIBENZOFURAN,12378- , FISH,WET WT.,PG/G	3	0	3	0	1	1
30351	PENTACHLORODIBENZOFURAN,23478- , FISH,WET WT.,PG/G	3	0	3	0	1	1
30352	HEXACHLORODIBENZOFURAN,123478- , FISH,WET WT.,PG/G	3	0	3	0	1	1
30353	HEXACHLORODIBENZOFURAN,123678- , FISH,WET WT.,PG/G	3	0	3	0	1	1
30354	HEXACHLORODIBENZOFURAN,123789- , FISH,WET WT.,PG/G	3	0	3	0	1	1
30355	HEXACHLORODIBENZOFURAN,234678- , FISH,WET WT.,PG/G	3	0	3	0	1	1
30356	HEPTACHLORODIBENZOFURAN,1234678- ,FISH,WET WT,PG/G	3	0	3	0	1	1
30357	HEPTACHLORODIBENZOFURAN,1234789- ,FISH,WET WT,PG/G	3	0	3	0	1	1
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	254	0	94	160	22	9
31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	6	0	0	6	1	1
31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	21	1	12	8	4	1
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	43	0	2	41	7	1
31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	90	0	17	73	13	5
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	40	0	0	40	6	1
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	1494	263	875	356	50	19
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	113	67	46	0	3	2
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	170	99	70	1	4	3
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	41	20	17	4	4	2
32023	ACIDS, STRONG	216	36	180	0	26	19
32024	ACIDS, WEAK	216	36	180	0	26	19
32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	1	0	1	0	1	1
32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	1	0	1	0	1	1
32103	1,2-DICHLOROETHANE,WHOLE WATER,UG/L	1	0	1	0	1	1
32104	BROMOFORM,WHOLE WATER,UG/L	1	0	1	0	1	1
32106	CHLOROFORM,WHOLE WATER,UG/L	2	0	2	0	2	2
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	37	29	8	0	14	5
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	17	0	17	0	7	5
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	89	46	28	15	16	7
32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	46	46	0	0	3	2
32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	34	26	8	0	13	5
32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	46	46	0	0	3	2
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	58	26	8	24	21	10
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	159	46	35	78	17	7
32228	CHLOROPHYLL A, PERIPHYTON, SPECTRO, MG/M2	12	0	12	0	4	3
32240	TANNIN AND LIGNIN (MG/L)	15	0	0	15	1	0
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	62	0	46	16	17	6

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32734	PHENOLICS,TISSUE,WET WEIGHT,MG/KG	1	0	1	0	1	1
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	1	0	1	0	1	1
34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	1	0	1	0	1	1
34200	ACENAPHTHYLENE TOTWUG/L	1	0	1	0	1	1
34203	ACENAPHTHYLENE DRY WGTBOTUG/KG	1	0	1	0	1	1
34204	ACENAPHTHYLENE WET WGTTISMG/KG	1	0	1	0	1	1
34205	ACENAPHTHENE TOTWUG/L	1	0	1	0	1	1
34208	ACENAPHTHENE DRY WGTBOTUG/KG	1	0	1	0	1	1
34209	ACENAPHTHENE WET WGTTISMG/KG	1	0	1	0	1	1
34210	ACROLEIN TOTWUG/L	1	0	1	0	1	1
34215	ACRYLONITRILE TOTWUG/L	1	0	1	0	1	1
34220	ANTHRACENE TOTWUG/L	1	0	1	0	1	1
34223	ANTHRACENE DRY WGTBOTUG/KG	1	0	1	0	1	1
34224	ANTHRACENE WET WGTTISMG/KG	1	0	1	0	1	1
34230	BENZO(B)FLUORANTHENE,WHOLE WATER,UG/L	1	0	1	0	1	1
34233	BENZO(B)FLUORANTHENE,SEDIMENTS,DRY WGT,UG/KG	1	0	1	0	1	1
34234	BENZO(B)FLUORANTHENE,TISSUE,WET WGT,MG/KG	1	0	1	0	1	1
34241	BENZIDINE WET WGTTISMG/KG	1	0	1	0	1	1
34242	BENZO(K)FLUORANTHENE, TOTAL, WATER UG/L	1	0	1	0	1	1
34245	BENZO(K)FLUORANTHENE, DRY WT, SEDIMENT UG/KG	1	0	1	0	1	1
34246	BENZO(K)FLUORANTHENE, WET WT, TISSUE MG/KG	1	0	1	0	1	1
34247	BENZO-A-PYRENE TOTWUG/L	1	0	1	0	1	1
34250	BENZO-A-PYRENE DRY WGTBOTUG/KG	1	0	1	0	1	1
34251	BENZO-A-PYRENE WET WGTTISMG/KG	1	0	1	0	1	1
34252	BERYLLIUM WET WGTTISMG/KG	7	6	1	0	3	2
34257	B-BHC-BETA DRY WGTBOTUG/KG	5	4	1	0	4	3
34258	B-BHC-BETA WET WGTTISMG/KG	10	9	1	0	5	4
34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	1	0	1	0	1	1
34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	5	4	1	0	4	3
34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	10	9	1	0	5	4
34272	BIS (CHLOROMETHYL) ETHER WET WGTTISMG/KG	1	0	1	0	1	1
34273	BIS (2-CHLOROETHYL) ETHER TOTWUG/L	1	0	1	0	1	1
34276	BIS (2-CHLOROETHYL) ETHER DRY WGTBOTUG/KG	1	0	1	0	1	1
34277	BIS (2-CHLOROETHYL) ETHER WET WGTTISMG/KG	1	0	1	0	1	1
34278	BIS (2-CHLOROETHOXY) METHANE TOTWUG/L	1	0	1	0	1	1
34281	BIS (2-CHLOROETHOXY) METHANE DRY WGTBOTUG/KG	1	0	1	0	1	1
34282	BIS (2-CHLOROETHOXY) METHANE WET WGTTISMG/KG	1	0	1	0	1	1
34283	BIS (2-CHLOROISOPROPYL) ETHER TOTWUG/L	1	0	1	0	1	1
34286	BIS (2-CHLOROISOPROPYL) ETHER DRY WGTBOTUG/KG	1	0	1	0	1	1
34287	BIS (2-CHLOROISOPROPYL) ETHER WET WGTTISMG/KG	1	0	1	0	1	1
34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	1	0	1	0	1	1
34295	N-BUTYL BENZYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	1	0	1	0	1	1
34296	N-BUTYL BENZYL PHTHALATE,TISSUE,WET WGT,MG/KG	1	0	1	0	1	1
34301	CHLOROBENZENE TOTWUG/L	1	0	1	0	1	1
34306	CHLORODIBROMOMETHANE TOTWUG/L	1	0	1	0	1	1
34311	CHLOROETHANE TOTWUG/L	1	0	1	0	1	1
34320	CHRYSENE TOTWUG/L	1	0	1	0	1	1
34323	CHRYSENE DRY WGTBOTUG/KG	1	0	1	0	1	1
34324	CHRYSENE WET WGTTISMG/KG	1	0	1	0	1	1
34326	CYANIDE WET WGTTISMG/KG	1	0	1	0	1	1
34336	DIETHYL PHTHALATE TOTWUG/L	1	0	1	0	1	1
34339	DIETHYL PHTHALATE DRY WGTBOTUG/KG	1	0	1	0	1	1
34340	DIETHYL PHTHALATE WET WGTTISMG/KG	1	0	1	0	1	1
34341	DIMETHYL PHTHALATE TOTWUG/L	1	0	1	0	1	1
34344	DIMETHYL PHTHALATE DRY WGTBOTUG/KG	1	0	1	0	1	1
34345	DIMETHYL PHTHALATE WET WGTTISMG/KG	1	0	1	0	1	1
34346	1,2-DIPHENYLHYDRAZINE TOTWUG/L	1	0	1	0	1	1
34349	1,2-DIPHENYLHYDRAZINE DRY WGTBOTUG/KG	1	0	1	0	1	1
34350	1,2-DIPHENYLHYDRAZINE WET WGTTISMG/KG	1	0	1	0	1	1
34351	ENDOSULFAN SULFATE TOTWUG/L	1	0	1	0	1	1
34354	ENDOSULFAN SULFATE DRY WGTBOTUG/KG	5	4	1	0	4	3
34355	ENDOSULFAN SULFATE WET WGTTISMG/KG	10	9	1	0	5	4
34356	ENDOSULFAN, BETA TOTWUG/L	1	0	1	0	1	1
34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	5	4	1	0	4	3
34360	ENDOSULFAN, BETA WET WGTTISMG/KG	10	9	1	0	5	4
34361	ENDOSULFAN, ALPHA TOTWUG/L	1	0	1	0	1	1
34364	ENDOSULFAN, ALPHA DRY WGTBOTUG/KG	5	4	1	0	4	3
34365	ENDOSULFAN, ALPHA WET WGTTISMG/KG	10	9	1	0	5	4
34366	ENDRIN ALDEHYDE TOTWUG/L	1	0	1	0	1	1
34369	ENDRIN ALDEHYDE DRY WGTBOTUG/KG	5	4	1	0	4	3
34370	ENDRIN ALDEHYDE WET WGTTISMG/KG	5	4	1	0	3	2

Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Parameter Code	Name	Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
34371	ETHYLBENZENE TOTWUG/L	1	0	1	0	1	1
34376	FLUORANTHENE TOTWUG/L	1	0	1	0	1	1
34379	FLUORANTHENE DRY WGTBOTUG/KG	1	0	1	0	1	1
34380	FLUORANTHENE WET WGTTISMG/KG	1	0	1	0	1	1
34381	FLUORENE TOTWUG/L	1	0	1	0	1	1
34384	FLUORENE DRY WGTBOTUG/KG	1	0	1	0	1	1
34385	FLUORENE WET WGTTISMG/KG	1	0	1	0	1	1
34386	HEXACHLOROCYCLOPENTADIENE TOTWUG/L	1	0	1	0	1	1
34389	HEXACHLOROCYCLOPENTADIENE DRY WGTBOTUG/KG	1	0	1	0	1	1
34390	HEXACHLOROCYCLOPENTADIENE WET WGTTISMG/KG	1	0	1	0	1	1
34395	HEXACHLOROBUTADIENE WET WGTTISMG/KG	2	0	2	0	2	2
34396	HEXACHLOROETHANE TOTWUG/L	1	0	1	0	1	1
34399	HEXACHLOROETHANE DRY WGTBOTUG/KG	1	0	1	0	1	1
34400	HEXACHLOROETHANE WET WGTTISMG/KG	1	0	1	0	1	1
34403	INDENO (1,2,3-CD) PYRENE TOTWUG/L	1	0	1	0	1	1
34406	INDENO (1,2,3-CD) PYRENE DRY WGTBOTUG/KG	1	0	1	0	1	1
34407	INDENO (1,2,3-CD) PYRENE WET WGTTISMG/KG	1	0	1	0	1	1
34411	ISOPHORONE DRY WGTBOTUG/KG	1	0	1	0	1	1
34412	ISOPHORONE WET WGTTISMG/KG	1	0	1	0	1	1
34413	METHYL BROMIDE TOTWUG/L	1	0	1	0	1	1
34418	METHYL CHLORIDE TOTWUG/L	1	0	1	0	1	1
34423	METHYLENE CHLORIDE TOTWUG/L	1	0	1	0	1	1
34428	N-NITROSODI-N-PROPYLAMINE TOTWUG/L	1	0	1	0	1	1
34431	N-NITROSODI-N-PROPYLAMINE DRY WGTBOTUG/KG	1	0	1	0	1	1
34432	N-NITROSODI-N-PROPYLAMINE WET WGTTISMG/KG	1	0	1	0	1	1
34433	N-NITROSODIPHENYLAMINE TOTWUG/L	1	0	1	0	1	1
34436	N-NITROSODIPHENYLAMINE DRY WGTBOTUG/KG	1	0	1	0	1	1
34437	N-NITROSODIPHENYLAMINE WET WGTTISMG/KG	1	0	1	0	1	1
34442	N-NITROSODIMETHYLAMINE WET WGTTISMG/KG	1	0	1	0	1	1
34445	NAPHTHALENE DRY WGTBOTUG/KG	1	0	1	0	1	1
34446	NAPHTHALENE WET WGTTISMG/KG	1	0	1	0	1	1
34447	NITROBENZENE TOTWUG/L	1	0	1	0	1	1
34450	NITROBENZENE DRY WGTBOTUG/KG	1	0	1	0	1	1
34451	NITROBENZENE WET WGTTISMG/KG	1	0	1	0	1	1
34452	PARACHLOROMETA CRESOL TOTWUG/L	1	0	1	0	1	1
34455	PARACHLOROMETA CRESOL DRY WGTBOTUG/KG	1	0	1	0	1	1
34456	PARACHLOROMETA CRESOL WET WGTTISMG/KG	1	0	1	0	1	1
34461	PHENANTHRENE TOTWUG/L	1	0	1	0	1	1
34464	PHENANTHRENE DRY WGTBOTUG/KG	1	0	1	0	1	1
34465	PHENANTHRENE WET WGTTISMG/KG	1	0	1	0	1	1
34468	PHENOL WET WGTTISMG/KG	1	0	1	0	1	1
34469	PYRENE TOTWUG/L	1	0	1	0	1	1
34472	PYRENE DRY WGTBOTUG/KG	1	0	1	0	1	1
34473	PYRENE WET WGTTISMG/KG	1	0	1	0	1	1
34474	SILVER WET WGTTISMG/KG	7	6	1	0	3	2
34475	TETRACHLOROETHYLENE TOTWUG/L	1	0	1	0	1	1
34488	TRICHLOROFLUOROMETHANE TOTWUG/L	1	0	1	0	1	1
34496	1,1-DICHLOROETHANE TOTWUG/L	1	0	1	0	1	1
34501	1,1-DICHLOROETHYLENE TOTWUG/L	1	0	1	0	1	1
34506	1,1,1-TRICHLOROETHANE TOTWUG/L	1	0	1	0	1	1
34511	1,1,2-TRICHLOROETHANE TOTWUG/L	1	0	1	0	1	1
34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	1	0	1	0	1	1
34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE TOTWUG/L	1	0	1	0	1	1
34524	BENZO(GHI)PERYLENE1,12-BENZOPERYLENDRY WGTBOTUG/KG	1	0	1	0	1	1
34525	BENZO(GHI)PERYLENE1,12-BENZOPERYLENWET WGTTISMG/KG	1	0	1	0	1	1
34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE TOTWUG/L	1	0	1	0	1	1
34529	BENZO(A)ANTHRACENE1,2-BENZANTHRACENDRY WGTBOTUG/KG	1	0	1	0	1	1
34530	BENZO(A)ANTHRACENE1,2-BENZANTHRACENWET WGTTISMG/KG	1	0	1	0	1	1
34536	1,2-DICHLOROBENZENE TOTWUG/L	1	0	1	0	1	1
34539	1,2-DICHLOROBENZENE DRY WGTBOTUG/KG	1	0	1	0	1	1
34540	1,2-DICHLOROBENZENE WET WGTTISMG/KG	1	0	1	0	1	1
34541	1,2-DICHLOROPROPANE TOTWUG/L	1	0	1	0	1	1
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	1	0	1	0	1	1
34551	1,2,4-TRICHLOROBENZENE TOTWUG/L	1	0	1	0	1	1
34554	1,2,4-TRICHLOROBENZENE DRY WGTBOTUG/KG	1	0	1	0	1	1
34555	1,2,4-TRICHLOROBENZENE WET WGTTISMG/KG	2	0	2	0	2	2
34556	1,2,5,6-DIBENZANTHRACENE TOTWUG/L	1	0	1	0	1	1
34559	1,2,5,6-DIBENZANTHRACENE DRY WGTBOTUG/KG	1	0	1	0	1	1
34560	1,2,5,6-DIBENZANTHRACENE WET WGTTISMG/KG	1	0	1	0	1	1
34561	1,3-DICHLOROPROPENE TOTWUG/L	1	0	1	0	1	1
34566	1,3-DICHLOROBENZENE TOTWUG/L	1	0	1	0	1	1

Parameter Period of Record Tabulation
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Parameter Code	Name	Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
34569	1,3-DICHLOROBENZENE DRY WGTBOTUG/KG	1	0	1	0	1	1
34570	1,3-DICHLOROBENZENE WET WGTTISMG/KG	1	0	1	0	1	1
34571	1,4-DICHLOROBENZENE TOTWUG/L	1	0	1	0	1	1
34574	1,4-DICHLOROBENZENE DRY WGTBOTUG/KG	1	0	1	0	1	1
34575	1,4-DICHLOROBENZENE WET WGTTISMG/KG	1	0	1	0	1	1
34576	2-CHLOROETHYL VINYL ETHER TOTWUG/L	1	0	1	0	1	1
34581	2-CHLORONAPHTHALENE TOTWUG/L	1	0	1	0	1	1
34584	2-CHLORONAPHTHALENE DRY WGTBOTUG/KG	1	0	1	0	1	1
34585	2-CHLORONAPHTHALENE WET WGTTISMG/KG	1	0	1	0	1	1
34586	2-CHLOROPHENOL TOTWUG/L	1	0	1	0	1	1
34589	2-CHLOROPHENOL DRY WGTBOTUG/KG	1	0	1	0	1	1
34590	2-CHLOROPHENOL WET WGTTISMG/KG	1	0	1	0	1	1
34591	2-NITROPHENOL TOTWUG/L	1	0	1	0	1	1
34594	2-NITROPHENOL DRY WGTBOTUG/KG	1	0	1	0	1	1
34595	2-NITROPHENOL WET WGTTISMG/KG	1	0	1	0	1	1
34596	DI-N-OCTYL PHTHALATE TOTWUG/L	1	0	1	0	1	1
34599	DI-N-OCTYL PHTHALATE DRY WGTBOTUG/KG	1	0	1	0	1	1
34600	DI-N-OCTYL PHTHALATE WET WGTTISMG/KG	1	0	1	0	1	1
34601	2,4-DICHLOROPHENOL TOTWUG/L	1	0	1	0	1	1
34604	2,4-DICHLOROPHENOL DRY WGTBOTUG/KG	1	0	1	0	1	1
34605	2,4-DICHLOROPHENOL WET WGTTISMG/KG	1	0	1	0	1	1
34606	2,4-DIMETHYLPHENOL TOTWUG/L	1	0	1	0	1	1
34609	2,4-DIMETHYLPHENOL DRY WGTBOTUG/KG	1	0	1	0	1	1
34610	2,4-DIMETHYLPHENOL WET WGTTISMG/KG	1	0	1	0	1	1
34611	2,4-DINITROTOLUENE TOTWUG/L	1	0	1	0	1	1
34614	2,4-DINITROTOLUENE DRY WGTBOTUG/KG	1	0	1	0	1	1
34615	2,4-DINITROTOLUENE WET WGTTISMG/KG	1	0	1	0	1	1
34616	2,4-DINITROPHENOL TOTWUG/L	1	0	1	0	1	1
34619	2,4-DINITROPHENOL DRY WGTBOTUG/KG	1	0	1	0	1	1
34620	2,4-DINITROPHENOL WET WGTTISMG/KG	1	0	1	0	1	1
34621	2,4,6-TRICHLOROPHENOL TOTWUG/L	1	0	1	0	1	1
34624	2,4,6-TRICHLOROPHENOL DRY WGTBOTUG/KG	1	0	1	0	1	1
34625	2,4,6-TRICHLOROPHENOL WET WGTTISMG/KG	1	0	1	0	1	1
34626	2,6-DINITROTOLUENE TOTWUG/L	1	0	1	0	1	1
34629	2,6-DINITROTOLUENE DRY WGTBOTUG/KG	1	0	1	0	1	1
34630	2,6-DINITROTOLUENE WET WGTTISMG/KG	1	0	1	0	1	1
34631	3,3'-DICHLOROBENZIDINE TOTWUG/L	1	0	1	0	1	1
34634	3,3'-DICHLOROBENZIDINE DRY WGTBOTUG/KG	1	0	1	0	1	1
34635	3,3'-DICHLOROBENZIDINE WET WGTTISMG/KG	1	0	1	0	1	1
34636	4-BROMOPHENYL PHENYL ETHER TOTWUG/L	1	0	1	0	1	1
34639	4-BROMOPHENYL PHENYL ETHER DRY WGTBOTUG/KG	1	0	1	0	1	1
34640	4-BROMOPHENYL PHENYL ETHER WET WGTTISMG/KG	1	0	1	0	1	1
34641	4-CHLOROPHENYL PHENYL ETHER TOTWUG/L	1	0	1	0	1	1
34644	4-CHLOROPHENYL PHENYL ETHER DRY WGTBOTUG/KG	1	0	1	0	1	1
34645	4-CHLOROPHENYL PHENYL ETHER WET WGTTISMG/KG	1	0	1	0	1	1
34646	4-NITROPHENOL TOTWUG/L	1	0	1	0	1	1
34649	4-NITROPHENOL DRY WGTBOTUG/KG	1	0	1	0	1	1
34650	4-NITROPHENOL WET WGTTISMG/KG	1	0	1	0	1	1
34657	DNOC (4,6-DINITRO-ORTHO-CRESOL) TOTWUG/L	1	0	1	0	1	1
34660	DNOC (4,6-DINITRO-ORTHO-CRESOL) DRY WGTBOTUG/KG	1	0	1	0	1	1
34661	DNOC (4,6-DINITRO-ORTHO-CRESOL) WET WGTTISMG/KG	1	0	1	0	1	1
34664	PCB - 1221 WET WGTTISMG/KG	16	15	1	0	7	4
34667	PCB - 1232 WET WGTTISMG/KG	16	15	1	0	7	4
34668	DICHLORODIFUOROMETHANE TOTWUG/L	1	0	1	0	1	1
34669	PCB - 1248 WET WGTTISMG/KG	16	15	1	0	7	4
34670	PCB - 1260 WET WGTTISMG/KG	16	15	1	0	7	4
34671	PCB - 1016 TOTWUG/L	1	0	1	0	1	1
34674	PCB - 1016 WET WGTTISMG/KG	16	15	1	0	7	4
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	13	9	4	0	7	4
34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	1	0	1	0	1	1
34683	DI-N-BUTYL PHTHALATE,TISSUE,WET WGTWET WGT	1	0	1	0	1	1
34684	DIELDRIN TISMG/KG	3	0	3	0	2	0
34685	ENDRIN WET WGTTISMG/KG	15	9	6	0	8	5
34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	11	9	2	0	6	5
34687	HEPTACHLOR WET WGTTISMG/KG	11	9	2	0	6	5
34688	HEXACHLOROBENZENE WET WGTTISMG/KG	6	0	6	0	4	2
34689	PCB - 1242 WET WGTTISMG/KG	16	15	1	0	7	4
34690	PCB - 1254 WET WGTTISMG/KG	16	15	1	0	7	4
34691	TOXAPHENE WET WGTTISMG/KG	10	9	1	0	5	4
34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTWUG/L	1	0	1	0	1	1
34695	PHENOL(C6H5OH)-SINGLE COMPOUND DRY WGTTUG/KG	1	0	1	0	1	1

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Parameter Code	Name	Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
34696	NAPHTHALENE TOTWUG/L	1	0	1	0	1	1
34754	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN TISWETWTPG/G	3	0	3	0	1	1
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	108	0	26	82	7	1
38824	ISOPROPALIN TISWETWGTMG/KG	1	0	1	0	1	1
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE UG/L	1	0	1	0	1	1
39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	4	0	4	0	1	1
39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	5	0	5	0	3	1
39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	4	0	4	0	3	2
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	8	4	4	0	5	2
39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL	10	0	10	0	7	5
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	13	9	4	0	7	4
39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	10	0	10	0	7	5
39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	2	2	0	0	2	1
39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	5	2	3	0	4	1
39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	10	0	10	0	7	5
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	15	9	6	0	8	5
39075	BHC- GAMMA ISOMER, TISSUE WET WGT (UG/G)	4	0	4	0	2	0
39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	14	4	10	0	10	8
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	54	54	0	0	2	2
39099	BIS(2-ETHYLHEXYL)PHTHALATE,TISSUE,WET WGT,MG/KG	1	0	1	0	1	1
39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	1	0	1	0	1	1
39102	BIS(2-ETHYLHEXYL) PHTHALATE,SEDIMENT,DRY WGT,UG/KG	1	0	1	0	1	1
39110	DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	1	0	1	0	1	1
39112	DI-N-BUTYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	1	0	1	0	1	1
39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1	1
39121	BENZIDINE IN BOTTOM DEPOS UG/KG DRY SOLIDS	1	0	1	0	1	1
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE-UG/L	1	0	1	0	1	1
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	1	0	1	0	1	1
39250	NAPTHALENES, POLYCHLORINATED (UG/L)	6	0	6	0	1	1
39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	2	0	2	0	1	1
39290	DDT TOTAL IN TISSUE WET WGT BASIS (UG/G)	3	0	3	0	2	0
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1	1
39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	15	4	11	0	11	8
39302	P P DDT IN TISSUE WET WGT (UG/G)	13	9	4	0	7	4
39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10	0	10	0	7	5
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1	1
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	15	4	11	0	11	8
39312	P P DDD IN TISSUE WET WGT (UG/G)	13	9	4	0	7	4
39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10	0	10	0	7	5
39318	O,P' DDT IN FISH OR ANIMAL BY WET WEIGHT UG/KG	3	0	3	0	2	0
39319	MONOCHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	1	0	1	0	1	1
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1	1
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	15	4	11	0	11	8
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	14	9	5	0	8	5
39325	O,P DDD IN TISSUE WET WGT (UG/G)	3	0	3	0	2	0
39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	10	0	10	0	7	5
39329	O,P DDE IN TISSUE, WET WGT(UG/G)	3	0	3	0	2	0
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	14	0	8	6	2	2
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	25	4	18	3	12	9
39335	DICHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	1	0	1	0	1	1
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	1	0	1	0	1	1
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	1	0	1	0	1	1
39339	TRICHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	1	0	1	0	1	1
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	12	0	8	4	2	2
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	15	4	8	3	5	4
39345	TETRACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	1	0	1	0	1	1
39347	PENTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	1	0	1	0	1	1
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	11	0	8	3	2	2
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	15	4	8	3	5	4
39354	HEPTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	1	0	1	0	1	1
39355	OCTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	1	0	1	0	1	1
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	13	0	7	6	1	1
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10	0	7	3	1	1
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	13	0	7	6	1	1
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10	0	7	3	1	1
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	13	0	7	6	1	1
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	15	0	12	3	4	2
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	14	0	8	6	2	2
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	25	4	18	3	12	9
39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	5	0	5	0	1	1
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	2	0	1	1

Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Parameter Code	Name	Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	14	0	8	6	2	2
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	24	4	17	3	11	9
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	6	0	6	0	1	1
39399	ETHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	2	0	1	1
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	8	0	8	0	2	2
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	12	4	8	0	5	4
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	11	9	2	0	6	5
39408	NONACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	1	0	1	0	1	1
39409	DECACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	1	0	1	0	1	1
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	14	0	8	6	2	2
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	15	4	8	3	5	4
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	13	0	8	5	2	2
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	15	4	8	3	5	4
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	5	0	5	0	1	1
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	19	4	15	0	10	8
39482	METHOXYCHLOR IN FISH - UG/KG	4	0	4	0	2	0
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	1	0	1	0	1	1
39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	8	7	1	0	6	3
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	1	0	1	0	1	1
39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	8	7	1	0	6	3
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	1	0	1	0	1	1
39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	8	7	1	0	6	3
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	1	0	1	0	1	1
39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	8	7	1	0	6	3
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	2	0	1	1	2	1
39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	8	7	1	0	6	3
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	1	0	1	0	1	1
39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	8	7	1	0	6	3
39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	8	7	1	0	6	3
39515	PCBS (MG/KG) FISH TISSUE MG/KG	14	10	4	0	6	1
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	8	0	7	1	1	1
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	20	3	16	1	9	6
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	9	0	6	3	1	1
39531	MALATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	3	0	2	1	1	1
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	9	0	6	3	1	1
39541	PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	3	0	2	1	1	1
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	9	0	6	3	1	1
39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	3	0	2	1	1	1
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	9	0	6	3	1	1
39601	METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	3	0	2	1	1	1
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1	1
39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	10	0	10	0	7	6
39702	HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE(UG/L)	1	0	1	0	1	1
39705	HEXACHLOROBUTADIENE BOT. DEPOS.(UG/KG DRY WGT)	1	0	1	0	1	1
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	10	0	5	5	1	1
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	10	0	5	5	1	1
39755	MIREX, TOTAL (UG/L)	5	0	5	0	1	1
39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	2	0	2	0	1	1
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	10	0	5	5	1	1
39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	11	9	2	0	6	5
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	6	0	6	0	1	1
39787	TRITHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	2	0	1	1
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	6	0	6	0	1	1
39791	METHYL TRITHION IN BOT DEPOS (UG/KG DRY SOLIDS)	2	0	2	0	1	1
39811	CHLORDANE,GAMMA,IN BOTTOM DEPOS(UG/KG DRY SOLIDS)	5	0	5	0	5	5
45513	TELLURIUM IN SEDIMENT (MG/KG AS TE DRY WT)	1	0	1	0	1	1
45514	YTTRIUM IN SEDIMENT (MG/KG AS YTTRIUM DRY WT)	1	0	1	0	1	1
45579	PERCENT LIPID EXTRACTABLE MATERIAL	15	15	0	0	6	3
46333	PENTACHLORONITROBENZENE (PCNB) IN TISSUE WET MG/KG	1	0	1	0	1	1
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	402	0	315	87	42	26
50086	SETTLEABLE MATTER (ML/L/HR)	1	0	1	0	1	0
60050	ALGAE, TOTAL (CELLS/ML)	9	0	7	2	1	1
70151	SURFACE AREA OF LAKE OR RESERVOIR SQ KM	6	0	6	0	6	1
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	856	70	424	362	74	39
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	130	4	44	82	20	12
70302	SOLIDS, DISSOLVED-TONS PER DAY	144	0	55	89	18	12
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	158	0	61	97	23	13
70305	SALINITY BASED ON CONDUCTIVITY	65	0	21	44	16	9
70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	4	4	0	0	3	2
70320	MOISTURE CONTENT (PERCENT OF TOTAL WET WEIGHT)	1	0	1	0	1	1
70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	4	4	0	0	3	2

Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Parameter Code	Name	Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	133	65	67	1	2	2
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	1	0	0	1	1	1
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	1	0	0	1	1	1
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	1	0	0	1	1	1
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	2	0	1	1	2	1
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	3	0	2	1	2	1
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	3	0	2	1	2	1
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	3	0	2	1	2	1
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	3	0	2	1	2	1
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	2	0	2	0	1	0
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	2	0	2	0	1	0
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	2	0	2	0	1	0
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	1	0	1	0	1	0
70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	1	0	1	0	1	0
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	504	128	367	9	41	18
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	39	0	39	0	6	4
70511	PHOSPHORUS,ORTHO,IN BOTTOM DEPOS.(MG/KG-P DRY WT)	3	0	3	0	2	2
70977	INSTRUMENT RATIO, LAB/FIELD CONCENTRATIONS, NUMBER	3	0	3	0	1	1
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	116	0	116	0	22	17
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	128	38	78	12	6	5
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	218	0	113	105	24	17
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	260	78	51	131	45	29
71870	BROMIDE (MG/L AS BR)	23	23	0	0	23	23
71876	SOAPS, RESIN ACID (MG/L)	3	0	2	1	2	0
71880	FORMALDEHYDE (MG/L)	2	0	2	0	1	0
71885	IRON (UG/L AS FE)	108	44	6	58	25	15
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	37	4	33	0	6	3
71887	NITROGEN, TOTAL, AS NO3 - MG/L	44	0	34	10	2	2
71890	MERCURY, DISSOLVED (UG/L AS HG)	56	35	10	11	4	3
71895	MERCURY, SUSPENDED (UG/L AS HG)	12	0	2	10	1	1
71900	MERCURY, TOTAL (UG/L AS HG)	623	240	335	48	65	38
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	36	7	22	7	19	13
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	34	16	18	0	8	5
71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	2	0	2	0	1	1
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	29	11	18	0	8	5
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	24	6	18	0	6	3
71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	24	6	18	0	6	3
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	24	6	18	0	6	3
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	29	11	18	0	8	5
72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	58	0	1	57	3	1
72004	PUMP OR FLOW PERIOD PRIOR TO SAMPLING MINUTES	3	0	3	0	3	0
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	50	44	6	0	22	14
72025	DEPTH OF POND OR RESERVOIR IN FEET	25	0	1	24	9	5
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	191	21	170	0	5	1
74010	IRON, TOTAL (MG/L AS FE)	1	0	1	0	1	1
75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	17	17	0	0	2	2
75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	17	17	0	0	2	2
75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	17	17	0	0	2	2
75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	17	17	0	0	2	2
75990	URANIUM,NATURAL,1 SIGMA PRC EST,DISS,WATER UG/L	15	15	0	0	2	2
76001	RADIUM 226,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	15	15	0	0	2	2
76004	ALPHA GROSS,SUSP,1 SIGMA PRC EST AS TH230,WTR PC/L	17	17	0	0	2	2
76005	BETA GROSS,SUSP,1 SIGMA PRC EST AS SR90/Y90 PC/L	17	17	0	0	2	2
76530	BIPHENYL TISSUE ,WET WGT,MG/KG	1	0	1	0	1	1
78457	CHLORDENE, ALPHA-, FISH TISSUE, WET WEIGHT, MG/KG	7	7	0	0	4	3
78458	CHLORDENE, BETA-, FISH TISSUE, WET WEIGHT, MG/KG	2	2	0	0	2	1
78459	CHLORDENE, GAMMA-, FISH TISSUE, WET WEIGHT, MG/KG	7	7	0	0	4	3
78907	HEXACHLOROBIPHENYLS IN FISH TISSUE WET WGT. MG/KG	1	0	1	0	1	1
78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	8	7	1	0	5	4
78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	8	7	1	0	5	4
79006	CHLORDENE IN FISH UG/KG	9	9	0	0	4	3
79026	1,2,3,4,-TETRACHLOROBENZENE IN FISH WET WGT MG/KG	1	0	1	0	1	1
80020	URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD	18	4	7	7	2	2
80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	41	25	7	9	2	2
80040	ALPHA,SUSPENDED GROSS, AS URANIUM-NATURAL, UG/L	41	25	7	9	2	2
80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	41	25	7	9	2	2
80060	BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L	41	25	7	9	2	2
80111	NITROGEN, TOTAL IN DRIED MATERIAL (MG/KG)	3	0	0	3	3	1
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	250	70	165	15	4	3
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	164	0	149	15	3	2
81024	DRAINAGE AREA IN SQUARE MILES (SQ. MI.)	50	44	6	0	22	14

Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Parameter Code	Name	Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
81253	BOD, 31 DAY, 20 DEG C MG/L	1	0	1	0	1	0
81254	BOD, 32 DAY, 20 DEG C MG/L	12	0	12	0	2	0
81255	BOD, 33 DAY, 20 DEG C MG/L	1	0	1	0	1	0
81256	BOD, 34 DAY, 20 DEG C MG/L	12	0	12	0	2	0
81257	BOD, 36 DAY, 20 DEG C MG/L	13	0	13	0	3	0
81259	BOD, 38 DAY, 20 DEG C MG/L	1	0	1	0	1	0
81260	BOD, 39 DAY, 20 DEG C MG/L	6	0	6	0	2	0
81261	BOD, 41 DAY, 20 DEG C MG/L	6	0	6	0	2	0
81262	BOD, 43 DAY, 20 DEG C MG/L	6	0	6	0	2	0
81264	BOD, 45 DAY, 20 DEG C MG/L	1	0	1	0	1	0
81265	BOD, 46 DAY, 20 DEG C MG/L	12	0	12	0	2	0
81266	BOD, 47 DAY, 20 DEG C MG/L	2	0	2	0	1	0
81267	BOD, 48 DAY, 20 DEG C MG/L	6	0	6	0	2	0
81268	BOD, 51 DAY, 20 DEG C MG/L	3	0	3	0	2	0
81269	BOD, 52 DAY, 20 DEG C MG/L	1	0	1	0	1	0
81270	BOD, 53 DAY, 20 DEG C MG/L	13	0	13	0	3	0
81271	BOD, 54 DAY, 20 DEG C MG/L	1	0	1	0	1	0
81272	BOD, 55 DAY, 20 DEG C MG/L	5	0	5	0	2	0
81273	BOD, 57 DAY, 20 DEG C MG/L	11	0	11	0	2	0
81274	BOD, 58 DAY, 20 DEG C MG/L	1	0	1	0	1	0
81275	BOD, 59 DAY, 20 DEG C MG/L	2	0	2	0	1	0
81276	BOD, 60 DAY, 20 DEG C MG/L	13	0	13	0	3	0
81312	POLYCHLORINATEDBIPHENYLS FISH TISSUE WET WGT MG/KG	1	0	1	0	1	1
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	1	0	1	0	1	1
81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	6	5	1	0	4	3
81647	REFERENCE POINT READING(LINEAR FEET)	97	33	64	0	2	0
81652	TREFLAN IN FISH TISSUE WET WEIGHT MG/KG	1	0	1	0	1	1
81656	MAGNESIUM IN FISH TISSUE WET WEIGHT MG/KG	4	0	4	0	2	0
81666	ALUMINUM IN FISH TISSUE WET WEIGHT MG/KG	4	0	4	0	2	0
81807	DURSBAN IN FISH TISSUE WET WEIGHT MG/KG	1	0	1	0	1	1
81823	PENTACHLOROANISOLE(PCA)INFISH TISSUE WET WGT MG/KG	1	0	1	0	1	1
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	2	0	2	0	1	1
81900	SEDIMENT CORE SAMPLE,UPPER DEPTH,REPORT IN INCHES	2	2	0	0	1	0
81901	SEDIMENT CORE SAMPLE, LOWER DEPTH,REPORT IN INCHES	2	2	0	0	1	0
82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	5	4	1	0	3	2
82047	DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	6	0	6	0	6	1
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	5	0	5	0	1	1
82073	STARTING TIME (BASED ON A 24 HOUR CLOCK)	1	1	0	0	1	1
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	21	21	0	0	3	2
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	120	114	6	0	33	25
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	2	0	2	0	1	1
82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	78	34	44	0	5	3
82381	PRECIPITATION, TOTAL IN INCHES PER STORM	6	0	6	0	1	0
82398	SAMPLING METHOD (CODES)	37	27	8	2	2	2
82547	CHLOROPHYLL A,PERIPHYTON,FLUOROMETRIC MG/M2	2	0	2	0	1	0
83509	STREAM, WIDTH METER	44	44	0	0	16	13
84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	5	4	1	0	5	4
84001	AQUIFER NAME CODE (SEE USGS CATALOG)	5	4	1	0	5	4
84007	ANATOMY ALPHA CODE	5	2	3	0	3	2
84014	SPECIES SEX CODE	84	84	0	0	7	3
84068	SERIES CODE ALPHA-NUMERIC CODE	263	222	41	0	14	6
85000	STREAM MILE, ACTUAL MILES	10	10	0	0	2	1
85001	BOD, 5 DAY LBS/DAY	13	0	0	13	3	0
85664	WEIGHT, WET, OF FISH LIVER GRAMS	39	39	0	0	3	2
85665	WEIGHT, WET, FISH, RIGHT FILLET GRAMS	39	39	0	0	3	2
85666	WEIGHT, WET, FISH, LEFT FILLET GRAMS	39	39	0	0	3	2
85675	TRICHLOROBENZENE,1,3,5- TISSUE,WET,WT,MG/KG	1	0	1	0	1	1
85676	TRICHLOROBENZENE,1,2,3- TISSUE,WET,WT,MG/KG	1	0	1	0	1	1
85677	TETRACHLOROBENZENE,1,2,4,5- TISSUE,WET,WT,MG/KG	1	0	1	0	1	1
85678	TETRACHLOROBENZENE,1,2,3,5- TISSUE,WET,WT,MG/KG	1	0	1	0	1	1
85679	PENTACHLOROBENZENE TISSUE,WET,WT,MG/KG	1	0	1	0	1	1
85680	DIPHENYL DISULFIDE TISSUE,WET,WT,MG/KG	1	0	1	0	1	1
85681	OCTACHLOROSTYRENE TISSUE,WET,WT,MG/KG	1	0	1	0	1	1
85682	NITROFEN TISSUE,WET,WT,MG/KG	1	0	1	0	1	1
85683	PERTHANE TISSUE,WET,WT,MG/KG	1	0	1	0	1	1
85684	PERTHANE TISSUE,WET,WT,MG/KG	1	0	1	0	1	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0009	No	00004	STREAM WIDTH (FEET)	02/15/83-01/09/95	11	94	
GRSM0185	Yes	00004	STREAM WIDTH (FEET)	02/07/83-12/05/94	11	54	
GRSM0256	No	00004	STREAM WIDTH (FEET)	02/24/83-12/05/94	11	56	
GRSM0003	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/22/93-10/19/94	1	245	
GRSM0004	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/03/73-10/26/73	0	23	
GRSM0005	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/29/70-09/29/70	0	8	
GRSM0006	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/25/79-09/26/79	0	101	
GRSM0007	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-07/31/79	5	16	
GRSM0008	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/29/70-09/26/79	8	171	
GRSM0009	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	20	231	
GRSM0010	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/70-10/02/72	1	12	
GRSM0011	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/29/68-07/13/77	8	14	
GRSM0013	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	20	101	
GRSM0016	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	20	85	
GRSM0019	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/02/73-10/26/73	0	27	
GRSM0020	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/22/93-10/19/94	1	247	
GRSM0021	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/03/66-01/31/67	0	9	
GRSM0022	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-07/31/79	5	17	
GRSM0023	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/02/73-10/26/73	0	25	
GRSM0024	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	20	95	
GRSM0027	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	20	98	
GRSM0030	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/02/73-10/26/73	0	25	
GRSM0031	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/17/72-07/26/73	0	2	
GRSM0032	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/88-08/10/94	6	7	
GRSM0036	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	24	819	
GRSM0037	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-03/12/81	12	89	
GRSM0038	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/87-08/10/94	7	18	
GRSM0041	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/82-10/18/82	0	20	
GRSM0042	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/88-08/10/94	6	38	
GRSM0045	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/88-08/10/94	6	37	
GRSM0048	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/68-12/11/89	21	334	
GRSM0050	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/20/84-11/20/84	0	1	
GRSM0052	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/20/84-11/20/84	0	1	
GRSM0054	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/77-12/27/78	1	23	
GRSM0055	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-10/22/86	18	155	
GRSM0056	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/21/68-02/21/73	4	14	
GRSM0057	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	32	1155	
GRSM0059	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-11/27/74	6	7	
GRSM0060	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/02/73-10/26/73	0	31	
GRSM0061	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/19/82-04/29/88	5	173	
GRSM0063	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	20	59	
GRSM0066	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/88-08/10/94	6	24	
GRSM0069	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/25/79-10/20/94	15	681	
GRSM0070	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/29/68-03/24/76	7	16	
GRSM0071	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/25/85-07/11/85	0	4	
GRSM0072	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/13/83-05/08/85	1	7	
GRSM0073	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/29/68-01/29/75	6	15	
GRSM0077	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/15/79-10/18/82	3	21	
GRSM0078	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	23	1128	
GRSM0079	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/10/77-05/17/78	0	2	
GRSM0080	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/20/84-11/20/84	0	1	
GRSM0081	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/25/85-07/08/85	0	4	
GRSM0084	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/30/68-03/24/69	0	8	
GRSM0085	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-02/24/75	0	10	
GRSM0086	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/20/85-07/03/85	0	4	
GRSM0087	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/23/67-03/24/69	2	17	
GRSM0088	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-02/24/75	0	8	
GRSM0091	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/73-10/03/77	3	3	
GRSM0094	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/26/82-03/26/82	0	1	
GRSM0095	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/03/85-07/03/85	0	1	
GRSM0098	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/26/82-03/26/82	0	1	
GRSM0099	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/22/85-07/16/85	0	2	
GRSM0100	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/08/85-07/08/85	0	1	
GRSM0101	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-02/24/75	0	10	
GRSM0102	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/30/68-03/24/69	0	8	
GRSM0103	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/23/91-09/30/91	0	6	
GRSM0105	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/30/68-03/24/69	0	9	
GRSM0106	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/25/85-07/16/85	0	4	
GRSM0108	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/26/82-03/26/82	0	1	
GRSM0109	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-02/24/75	0	10	
GRSM0110	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/12/81-03/26/82	0	3	
GRSM0111	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/29/82-07/29/82	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0112	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/12/81-08/01/82	0	36	
GRSM0113	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/02/81-10/20/82	0	513	
GRSM0114	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/16/93-04/13/94	0	5	
GRSM0115	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/11/82-08/11/82	0	1	
GRSM0116	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-10/20/82	0	380	
GRSM0117	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/16/93-04/13/94	0	5	
GRSM0118	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/16/93-05/03/94	0	6	
GRSM0119	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/15/93-05/03/94	0	8	
GRSM0121	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/16/93-04/13/94	0	5	
GRSM0122	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/16/93-04/13/94	0	5	
GRSM0126	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/27/73-11/13/73	0	12	
GRSM0127	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/17/93-05/03/94	0	9	
GRSM0128	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/17/93-05/03/94	0	8	
GRSM0130	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/24/94-04/13/94	0	3	
GRSM0131	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/17/93-04/13/94	0	5	
GRSM0133	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/16/93-04/13/94	0	6	
GRSM0134	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/22/82-03/26/82	0	2	
GRSM0136	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/12/81-11/12/81	0	1	
GRSM0137	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/02/81-04/22/82	0	3	
GRSM0138	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/12/81-03/24/82	0	3	
GRSM0139	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/22/82-03/22/82	0	1	
GRSM0141	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/02/81-12/02/81	0	1	
GRSM0142	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/02/81-03/24/82	0	2	
GRSM0143	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/22/82-03/22/82	0	1	
GRSM0145	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/82-03/24/82	0	1	
GRSM0148	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/82-03/24/82	0	1	
GRSM0150	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/26/82-03/26/82	0	1	
GRSM0151	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/11/79-04/11/79	0	1	
GRSM0152	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/10/85-07/10/85	0	1	
GRSM0155	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/11/79-04/11/79	0	1	
GRSM0157	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/11/79-04/11/79	0	1	
GRSM0160	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/20/82-04/20/82	0	1	
GRSM0163	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/23/82-04/20/82	0	2	
GRSM0166	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/23/82-03/23/82	0	1	
GRSM0167	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/21/82-04/21/82	0	1	
GRSM0169	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/23/82-03/23/82	0	1	
GRSM0171	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/15/81-07/23/81	0	4	
GRSM0173	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/02/81-03/25/82	0	2	
GRSM0175	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/02/81-03/25/82	0	2	
GRSM0177	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/20/84-11/20/84	0	1	
GRSM0182	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	31	139	
GRSM0184	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	25	229	
GRSM0185	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/73-12/05/94	21	298	
GRSM0186	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/23/76-04/23/76	0	1	
GRSM0189	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/11/79-04/11/79	0	1	
GRSM0190	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/27/85-07/10/85	0	4	
GRSM0191	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/20/84-11/20/84	0	1	
GRSM0192	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/15/81-07/23/81	0	5	
GRSM0193	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/11/83-08/31/83	0	22	
GRSM0194	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/25/85-07/08/85	0	4	
GRSM0195	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/85-07/16/85	0	1	
GRSM0196	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/20/91-08/28/91	0	2	
GRSM0197	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/01/90-07/28/92	1	26	
GRSM0200	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/11/83-08/31/83	0	39	
GRSM0201	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/11/83-08/31/83	0	5	
GRSM0202	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/08/68-03/18/75	7	18	
GRSM0203	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/01/90-07/28/92	1	17	
GRSM0206	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/08/85-07/08/85	0	1	
GRSM0207	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/31/83-08/31/83	0	8	
GRSM0208	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/29/84-11/29/84	0	1	
GRSM0209	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/11/83-08/31/83	0	58	
GRSM0210	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/01/90-07/28/92	1	32	
GRSM0213	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/28/85-07/16/85	0	4	
GRSM0214	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/05/78-05/05/78	0	1	
GRSM0215	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/08/68-03/18/75	7	22	
GRSM0216	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/78-05/04/78	0	1	
GRSM0217	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/06/78-05/06/78	0	1	
GRSM0218	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/15/81-07/23/81	0	4	
GRSM0219	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/15/81-08/13/81	0	5	
GRSM0220	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/83-09/26/85	1	6	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0222	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/08/68-03/18/75	7	22	
GRSM0223	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/06/67-08/01/68	0	3	
GRSM0225	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/15/81-08/13/81	0	4	
GRSM0226	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/30/81-08/13/81	0	3	
GRSM0228	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/06/81-05/06/81	0	1	
GRSM0229	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/13/83-05/15/85	1	7	
GRSM0234	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/15/81-08/13/81	0	5	
GRSM0236	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/15/81-08/13/81	0	6	
GRSM0237	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/28/85-07/10/85	0	4	
GRSM0238	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/16/76-11/16/76	0	1	
GRSM0239	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/15/81-08/13/81	0	6	
GRSM0242	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-08/26/68	0	1	
GRSM0244	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/10/67-12/06/68	1	15	
GRSM0247	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/73-09/20/73	0	18	
GRSM0248	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/74-03/18/75	0	14	
GRSM0249	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/11/68-07/25/73	4	51	
GRSM0250	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/75-06/01/94	18	22	
GRSM0251	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/75-09/07/76	0	15	
GRSM0252	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/83-09/26/85	1	6	
GRSM0253	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/05/73-06/08/73	0	4	
GRSM0254	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/75-09/11/85	9	68	
GRSM0255	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/85-07/07/85	0	1	
GRSM0256	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	23	250	
GRSM0257	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/73-09/20/73	0	12	
GRSM0258	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/07/65-09/06/83	18	11	
GRSM0259	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/85-07/07/85	0	4	
GRSM0260	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/01/78-07/17/85	7	12	
GRSM0262	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/77-10/11/78	1	12	
GRSM0264	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/20/82-12/14/92	10	65	
GRSM0265	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/28/89-06/28/89	0	3	
GRSM0024	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/05/87-08/05/87	0	2	
GRSM0210	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	07/28/92-07/28/92	0	1	
GRSM0005	No	00019	SAMPLE WEIGHT IN GRAMS	09/23/87-11/16/93	6	25	
GRSM0020	Yes	00019	SAMPLE WEIGHT IN GRAMS	11/17/93-11/17/93	0	10	
GRSM0035	Yes	00019	SAMPLE WEIGHT IN GRAMS	09/23/87-11/25/88	1	10	
GRSM0069	Yes	00019	SAMPLE WEIGHT IN GRAMS	12/01/92-11/18/93	0	14	
GRSM0075	No	00019	SAMPLE WEIGHT IN GRAMS	12/15/87-12/15/87	0	10	
GRSM0083	No	00019	SAMPLE WEIGHT IN GRAMS	02/25/87-02/25/87	0	5	
GRSM0096	No	00019	SAMPLE WEIGHT IN GRAMS	02/11/87-02/11/87	0	10	
GRSM0007	No	00023	SAMPLE WEIGHT IN POUNDS	07/16/74-07/29/75	1	2	
GRSM0011	No	00023	SAMPLE WEIGHT IN POUNDS	07/29/68-12/10/74	6	13	
GRSM0013	Yes	00023	SAMPLE WEIGHT IN POUNDS	07/16/74-07/31/75	1	6	
GRSM0016	Yes	00023	SAMPLE WEIGHT IN POUNDS	07/16/74-07/29/75	1	2	
GRSM0022	No	00023	SAMPLE WEIGHT IN POUNDS	07/16/74-07/29/75	1	2	
GRSM0024	Yes	00023	SAMPLE WEIGHT IN POUNDS	07/16/74-07/31/75	1	6	
GRSM0027	Yes	00023	SAMPLE WEIGHT IN POUNDS	07/16/74-07/29/75	1	2	
GRSM0037	No	00023	SAMPLE WEIGHT IN POUNDS	06/20/68-11/21/74	6	12	
GRSM0055	No	00023	SAMPLE WEIGHT IN POUNDS	06/20/68-11/21/74	6	12	
GRSM0059	No	00023	SAMPLE WEIGHT IN POUNDS	06/20/68-11/27/74	6	7	
GRSM0063	Yes	00023	SAMPLE WEIGHT IN POUNDS	07/16/74-07/29/75	1	2	
GRSM0070	No	00023	SAMPLE WEIGHT IN POUNDS	07/29/68-01/29/75	6	15	
GRSM0073	No	00023	SAMPLE WEIGHT IN POUNDS	07/29/68-01/29/75	6	15	
GRSM0005	No	00039	SAMPLE LENGTH IN MILLIMETERS	09/23/87-11/16/93	6	25	
GRSM0020	Yes	00039	SAMPLE LENGTH IN MILLIMETERS	11/17/93-11/17/93	0	10	
GRSM0035	Yes	00039	SAMPLE LENGTH IN MILLIMETERS	09/23/87-11/25/88	1	10	
GRSM0069	Yes	00039	SAMPLE LENGTH IN MILLIMETERS	12/01/92-11/18/93	0	14	
GRSM0075	No	00039	SAMPLE LENGTH IN MILLIMETERS	12/15/87-12/15/87	0	10	
GRSM0083	No	00039	SAMPLE LENGTH IN MILLIMETERS	02/25/87-02/25/87	0	5	
GRSM0096	No	00039	SAMPLE LENGTH IN MILLIMETERS	02/11/87-02/11/87	0	10	
GRSM0214	No	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	05/05/78-05/05/78	0	1	
GRSM0216	No	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	05/04/78-05/04/78	0	1	
GRSM0217	No	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	05/06/78-05/06/78	0	1	
GRSM0010	No	00060	FLOW, STREAM, MEAN DAILY CFS	10/18/57-10/02/72	14	72	
GRSM0011	No	00060	FLOW, STREAM, MEAN DAILY CFS	07/29/68-08/24/71	3	10	
GRSM0037	No	00060	FLOW, STREAM, MEAN DAILY CFS	06/20/68-08/24/71	3	9	
GRSM0055	No	00060	FLOW, STREAM, MEAN DAILY CFS	06/20/68-08/24/71	3	9	
GRSM0056	No	00060	FLOW, STREAM, MEAN DAILY CFS	05/21/68-02/21/73	4	16	
GRSM0059	No	00060	FLOW, STREAM, MEAN DAILY CFS	08/14/68-08/24/71	3	5	
GRSM0069	Yes	00060	FLOW, STREAM, MEAN DAILY CFS	04/21/93-10/19/93	0	7	
GRSM0070	No	00060	FLOW, STREAM, MEAN DAILY CFS	07/29/68-06/18/70	1	5	
GRSM0073	No	00060	FLOW, STREAM, MEAN DAILY CFS	07/29/68-06/18/70	1	5	
GRSM0076	No	00060	FLOW, STREAM, MEAN DAILY CFS	09/25/68-09/25/68	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0107	Yes	00060	FLOW, STREAM, MEAN DAILY CFS	09/24/68-09/24/68	0	1	
GRSM0120	Yes	00060	FLOW, STREAM, MEAN DAILY CFS	09/24/68-09/24/68	0	1	
GRSM0144	Yes	00060	FLOW, STREAM, MEAN DAILY CFS	09/25/68-09/25/68	0	1	
GRSM0161	Yes	00060	FLOW, STREAM, MEAN DAILY CFS	09/25/68-09/25/68	0	1	
GRSM0164	Yes	00060	FLOW, STREAM, MEAN DAILY CFS	09/25/68-09/25/68	0	1	
GRSM0178	Yes	00060	FLOW, STREAM, MEAN DAILY CFS	09/24/68-09/24/68	0	1	
GRSM0182	Yes	00060	FLOW, STREAM, MEAN DAILY CFS	08/10/63-10/08/70	7	21	
GRSM0184	Yes	00060	FLOW, STREAM, MEAN DAILY CFS	10/18/62-06/28/73	10	63	
GRSM0185	Yes	00060	FLOW, STREAM, MEAN DAILY CFS	01/24/74-05/12/75	1	60	
GRSM0221	Yes	00060	FLOW, STREAM, MEAN DAILY CFS	09/25/68-09/25/68	0	1	
GRSM0223	Yes	00060	FLOW, STREAM, MEAN DAILY CFS	09/06/67-08/01/68	0	4	
GRSM0227	No	00060	FLOW, STREAM, MEAN DAILY CFS	09/25/68-09/25/68	0	1	
GRSM0240	Yes	00060	FLOW, STREAM, MEAN DAILY CFS	09/24/68-09/24/68	0	1	
GRSM0244	No	00060	FLOW, STREAM, MEAN DAILY CFS	10/10/67-12/06/68	1	15	
GRSM0249	No	00060	FLOW, STREAM, MEAN DAILY CFS	06/27/68-07/25/73	5	53	
GRSM0256	No	00060	FLOW, STREAM, MEAN DAILY CFS	10/18/73-05/20/75	1	24	
GRSM0009	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	17	168	
GRSM0010	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/19/56-01/04/82	25	32	
GRSM0021	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/66-01/31/67	0	9	
GRSM0036	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/68-08/12/86	17	601	
GRSM0048	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/29/70-12/11/89	19	274	
GRSM0054	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	02/15/77-12/27/78	1	22	
GRSM0057	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	28	836	
GRSM0070	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	03/24/76-03/24/76	0	1	
GRSM0074	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	11/06/56-04/13/62	5	8	
GRSM0078	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/02/46-11/05/84	38	715	
GRSM0079	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	11/10/77-11/10/77	0	1	
GRSM0087	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	01/23/67-05/20/68	1	11	
GRSM0112	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	11/30/81-08/02/82	0	328	
GRSM0114	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/15/93-04/13/94	0	6	
GRSM0117	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/15/93-04/13/94	0	6	
GRSM0118	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	11/16/93-05/03/94	0	6	
GRSM0119	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	12/15/93-05/03/94	0	8	
GRSM0121	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/16/93-04/13/94	0	6	
GRSM0122	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/15/93-04/13/94	0	6	
GRSM0127	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/94-05/03/94	0	4	
GRSM0128	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/15/93-05/03/94	0	9	
GRSM0130	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	01/24/94-04/13/94	0	3	
GRSM0131	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/15/93-04/13/94	0	6	
GRSM0133	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/16/93-03/17/94	0	5	
GRSM0182	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	03/25/65-11/22/94	29	127	
GRSM0184	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/73-05/11/93	19	215	
GRSM0185	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/75-09/07/93	17	183	
GRSM0186	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	04/23/76-04/23/76	0	1	
GRSM0202	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	01/08/68-03/18/75	7	18	
GRSM0215	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	01/08/68-03/18/75	7	20	
GRSM0220	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/18/83-09/26/85	1	6	
GRSM0222	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	01/08/68-03/18/75	7	22	
GRSM0238	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	11/16/76-11/16/76	0	1	
GRSM0242	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/23/68-08/26/68	0	2	
GRSM0248	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	04/24/74-03/18/75	0	12	
GRSM0250	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/21/75-02/08/77	1	18	
GRSM0251	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/21/75-06/07/76	0	10	
GRSM0252	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/18/83-09/26/85	1	6	
GRSM0254	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/75-09/11/85	9	68	
GRSM0256	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/75-10/21/92	17	102	
GRSM0258	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	01/07/65-11/03/71	6	9	
GRSM0260	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/01/78-07/17/85	7	12	
GRSM0262	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	02/23/77-10/11/78	1	12	
GRSM0069	Yes	00062	ELEVATION, RESERVOIR SURFACE WATER IN FEET	04/21/93-10/19/93	0	7	
GRSM0009	No	00064	DEPTH OF STREAM, MEAN (FT)	02/15/83-01/09/95	11	93	
GRSM0071	Yes	00064	DEPTH OF STREAM, MEAN (FT)	03/25/85-07/11/85	0	4	
GRSM0081	Yes	00064	DEPTH OF STREAM, MEAN (FT)	03/25/85-07/08/85	0	4	
GRSM0086	Yes	00064	DEPTH OF STREAM, MEAN (FT)	03/20/85-07/03/85	0	4	
GRSM0095	Yes	00064	DEPTH OF STREAM, MEAN (FT)	07/03/85-07/03/85	0	1	
GRSM0099	No	00064	DEPTH OF STREAM, MEAN (FT)	04/22/85-07/16/85	0	2	
GRSM0100	Yes	00064	DEPTH OF STREAM, MEAN (FT)	07/08/85-07/08/85	0	1	
GRSM0106	No	00064	DEPTH OF STREAM, MEAN (FT)	03/25/85-07/16/85	0	4	
GRSM0152	Yes	00064	DEPTH OF STREAM, MEAN (FT)	07/10/85-07/10/85	0	1	
GRSM0185	Yes	00064	DEPTH OF STREAM, MEAN (FT)	02/07/83-12/05/94	11	55	
GRSM0190	Yes	00064	DEPTH OF STREAM, MEAN (FT)	03/27/85-07/10/85	0	4	
GRSM0194	Yes	00064	DEPTH OF STREAM, MEAN (FT)	03/25/85-07/08/85	0	4	

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Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0195	Yes	00064	DEPTH OF STREAM, MEAN (FT)	07/16/85-07/16/85	0	1	
GRSM0206	Yes	00064	DEPTH OF STREAM, MEAN (FT)	07/08/85-07/08/85	0	1	
GRSM0213	Yes	00064	DEPTH OF STREAM, MEAN (FT)	03/28/85-07/16/85	0	4	
GRSM0237	Yes	00064	DEPTH OF STREAM, MEAN (FT)	03/28/85-07/10/85	0	4	
GRSM0255	Yes	00064	DEPTH OF STREAM, MEAN (FT)	07/07/85-07/07/85	0	1	
GRSM0256	No	00064	DEPTH OF STREAM, MEAN (FT)	02/24/83-12/05/94	11	56	
GRSM0259	No	00064	DEPTH OF STREAM, MEAN (FT)	03/24/85-07/07/85	0	4	
GRSM0009	No	00065	STAGE, STREAM (FEET)	09/23/75-09/09/93	17	175	
GRSM0011	No	00065	STAGE, STREAM (FEET)	07/29/68-12/10/74	6	13	
GRSM0037	No	00065	STAGE, STREAM (FEET)	05/29/74-09/19/78	4	8	
GRSM0055	No	00065	STAGE, STREAM (FEET)	02/27/74-09/19/78	4	14	
GRSM0070	No	00065	STAGE, STREAM (FEET)	06/21/73-03/24/76	2	2	
GRSM0072	Yes	00065	STAGE, STREAM (FEET)	08/29/84-05/08/85	0	11	
GRSM0073	No	00065	STAGE, STREAM (FEET)	06/21/73-06/21/73	0	1	
GRSM0112	No	00065	STAGE, STREAM (FEET)	11/30/81-08/02/82	0	328	
GRSM0182	Yes	00065	STAGE, STREAM (FEET)	10/28/93-08/24/94	0	6	
GRSM0184	Yes	00065	STAGE, STREAM (FEET)	05/12/86-05/11/93	6	29	
GRSM0185	Yes	00065	STAGE, STREAM (FEET)	01/24/74-09/07/93	19	269	
GRSM0229	Yes	00065	STAGE, STREAM (FEET)	08/10/84-06/08/85	0	39	
GRSM0256	No	00065	STAGE, STREAM (FEET)	06/14/73-10/21/92	19	136	
GRSM0103	No	00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	05/23/91-09/30/91	0	6	
GRSM0006	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/25/79-09/26/79	0	12	
GRSM0008	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/25/79-09/26/79	0	12	
GRSM0021	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/03/66-01/31/67	0	7	
GRSM0036	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/04/74-01/17/77	2	38	
GRSM0048	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	03/03/74-01/17/77	2	36	
GRSM0054	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/77-12/27/78	1	23	
GRSM0057	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/04/66-06/17/80	14	68	
GRSM0069	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/25/79-09/26/79	0	12	
GRSM0078	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/28/74-01/24/77	2	37	
GRSM0084	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/30/68-03/24/69	0	8	
GRSM0087	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/23/67-03/24/69	2	17	
GRSM0102	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/30/68-03/24/69	0	8	
GRSM0105	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/30/68-03/24/69	0	9	
GRSM0184	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/11/73-05/15/74	0	3	
GRSM0202	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/08/68-03/18/75	7	19	
GRSM0214	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/05/78-05/05/78	0	1	
GRSM0215	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/24/74-03/18/75	0	14	
GRSM0216	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/04/78-05/04/78	0	1	
GRSM0217	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/06/78-05/06/78	0	1	
GRSM0222	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/08/68-03/18/75	7	19	
GRSM0244	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/10/67-12/06/68	1	15	
GRSM0248	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/24/74-03/18/75	0	14	
GRSM0249	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/21/70-08/29/72	2	2	
GRSM0250	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/21/75-02/08/77	1	17	
GRSM0251	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/21/75-09/07/76	0	13	
GRSM0258	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/07/65-11/03/71	6	9	
GRSM0261	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/18/64-11/03/64	0	2	
GRSM0262	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/23/77-10/11/78	1	12	
GRSM0264	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/21/88-07/21/88	0	1	
GRSM0004	No	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	06/03/73-10/26/73	0	23	
GRSM0019	Yes	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	06/02/73-10/26/73	0	27	
GRSM0023	Yes	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	06/02/73-10/26/73	0	25	
GRSM0030	Yes	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	06/02/73-10/26/73	0	25	
GRSM0060	Yes	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	06/02/73-10/26/73	0	31	
GRSM0126	Yes	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	06/27/73-11/13/73	0	12	
GRSM0247	No	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	03/24/73-09/20/73	0	18	
GRSM0257	No	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	03/24/73-09/20/73	0	12	
GRSM0003	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/24/93-09/24/93	0	1	
GRSM0007	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/13/77-07/25/78	1	6	
GRSM0009	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	20	170	T
GRSM0011	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/29/68-07/13/77	8	10	
GRSM0013	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/13/77-08/29/94	17	7	
GRSM0016	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/07/77-08/29/94	17	6	
GRSM0022	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/07/77-07/27/77	0	5	
GRSM0024	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/13/77-08/29/94	17	7	
GRSM0027	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/13/77-08/29/94	17	7	
GRSM0032	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/27/88-08/10/94	6	2	
GRSM0037	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/20/68-03/12/81	12	64	
GRSM0038	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/27/88-08/10/94	6	2	
GRSM0042	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/27/88-08/10/94	6	2	
GRSM0045	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/27/88-08/10/94	6	2	

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Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0055	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/26/73-08/20/86	12	110	
GRSM0059	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/27/74-11/27/74	0	1	
GRSM0063	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/13/77-08/29/94	17	7	
GRSM0066	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/27/88-08/10/94	6	2	
GRSM0070	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/16/74-12/10/74	0	2	
GRSM0073	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/16/74-12/10/74	0	2	
GRSM0085	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-11/19/74	0	3	
GRSM0088	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-11/19/74	0	3	
GRSM0101	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-11/19/74	0	3	
GRSM0109	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-11/19/74	0	3	
GRSM0151	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/11/79-04/11/79	0	1	
GRSM0155	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/11/79-04/11/79	0	1	
GRSM0157	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/11/79-04/11/79	0	1	
GRSM0182	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/17/85-11/22/94	9	37	
GRSM0184	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/02/82-05/11/93	10	43	
GRSM0185	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/73-12/05/94	21	203	T
GRSM0189	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/11/79-04/11/79	0	1	
GRSM0197	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/01/90-07/28/92	1	2	
GRSM0203	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/01/90-07/28/92	1	2	
GRSM0210	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/01/90-07/28/92	1	2	
GRSM0256	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	25	183	T,A,S
GRSM0004	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/03/73-10/26/73	0	3	
GRSM0013	Yes	00077	TRANSPARENCY, SECCHI DISC (INCHES)	08/12/81-08/04/82	0	2	
GRSM0016	Yes	00077	TRANSPARENCY, SECCHI DISC (INCHES)	08/12/81-08/04/82	0	2	
GRSM0019	Yes	00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/02/73-10/26/73	0	3	
GRSM0023	Yes	00077	TRANSPARENCY, SECCHI DISC (INCHES)	08/21/73-10/26/73	0	2	
GRSM0024	Yes	00077	TRANSPARENCY, SECCHI DISC (INCHES)	08/12/81-08/04/82	0	2	
GRSM0027	Yes	00077	TRANSPARENCY, SECCHI DISC (INCHES)	08/12/81-08/04/82	0	2	
GRSM0030	Yes	00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/02/73-10/26/73	0	3	
GRSM0037	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	05/29/74-05/29/74	0	1	
GRSM0055	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	05/29/74-05/29/74	0	1	
GRSM0060	Yes	00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/02/73-10/26/73	0	3	
GRSM0103	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	05/23/91-09/30/91	0	6	
GRSM0126	Yes	00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/27/73-11/13/73	0	3	
GRSM0247	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	03/24/73-09/20/73	0	3	
GRSM0257	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	03/24/73-09/20/73	0	3	
GRSM0003	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/19/93-10/19/94	1	12	
GRSM0007	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-07/31/79	5	15	
GRSM0011	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/13/77-07/13/77	0	1	
GRSM0013	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	20	21	
GRSM0016	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	20	17	
GRSM0020	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	04/22/93-10/19/94	1	14	
GRSM0022	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-07/31/79	5	16	
GRSM0024	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	20	21	
GRSM0027	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	20	19	
GRSM0032	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/27/88-08/10/94	6	2	
GRSM0038	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/27/88-08/10/94	6	2	
GRSM0042	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/27/88-08/10/94	6	2	
GRSM0045	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/27/88-08/10/94	6	2	
GRSM0050	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	11/20/84-11/20/84	0	1	
GRSM0052	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	11/20/84-11/20/84	0	1	
GRSM0061	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	04/29/88-04/29/88	0	1	
GRSM0063	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	20	16	
GRSM0066	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/27/88-08/10/94	6	2	
GRSM0069	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/18/93-10/20/94	1	13	
GRSM0080	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	11/20/84-11/20/84	0	1	
GRSM0177	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	11/20/84-11/20/84	0	1	
GRSM0191	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	11/20/84-11/20/84	0	1	
GRSM0197	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/01/90-07/28/92	1	2	
GRSM0203	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/01/90-07/28/92	1	2	
GRSM0208	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	11/29/84-11/29/84	0	1	
GRSM0210	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/01/90-07/28/92	1	2	
GRSM0256	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	12/05/74-12/05/74	0	1	
GRSM0006	No	00080	COLOR (PLATINUM-COBALT UNITS)	04/25/79-09/26/79	0	4	
GRSM0008	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	04/25/79-09/26/79	0	4	
GRSM0009	No	00080	COLOR (PLATINUM-COBALT UNITS)	08/09/77-07/18/78	0	2	
GRSM0010	No	00080	COLOR (PLATINUM-COBALT UNITS)	10/19/56-05/09/72	15	72	
GRSM0021	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	05/03/66-01/31/67	0	9	
GRSM0031	No	00080	COLOR (PLATINUM-COBALT UNITS)	01/23/73-09/06/73	0	4	
GRSM0036	No	00080	COLOR (PLATINUM-COBALT UNITS)	02/04/74-01/17/77	2	38	
GRSM0041	No	00080	COLOR (PLATINUM-COBALT UNITS)	10/18/82-10/18/82	0	1	
GRSM0048	No	00080	COLOR (PLATINUM-COBALT UNITS)	03/03/74-01/17/77	2	36	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0050	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	11/20/84-11/20/84	0	1	
GRSM0052	No	00080	COLOR (PLATINUM-COBALT UNITS)	11/20/84-11/20/84	0	1	
GRSM0054	No	00080	COLOR (PLATINUM-COBALT UNITS)	02/15/77-12/27/78	1	23	
GRSM0055	No	00080	COLOR (PLATINUM-COBALT UNITS)	08/09/77-08/29/78	1	6	
GRSM0056	No	00080	COLOR (PLATINUM-COBALT UNITS)	05/21/68-05/24/72	4	11	
GRSM0057	No	00080	COLOR (PLATINUM-COBALT UNITS)	05/04/66-06/17/80	14	68	
GRSM0061	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	10/19/82-10/19/82	0	1	
GRSM0069	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	04/25/79-09/26/79	0	4	
GRSM0071	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	03/25/85-07/11/85	0	4	
GRSM0072	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	12/13/83-05/08/85	1	22	
GRSM0074	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	11/06/56-04/13/62	5	8	
GRSM0076	No	00080	COLOR (PLATINUM-COBALT UNITS)	09/25/68-09/25/68	0	1	
GRSM0077	No	00080	COLOR (PLATINUM-COBALT UNITS)	10/18/82-10/18/82	0	1	
GRSM0078	No	00080	COLOR (PLATINUM-COBALT UNITS)	01/28/74-01/24/77	2	37	
GRSM0080	No	00080	COLOR (PLATINUM-COBALT UNITS)	11/20/84-11/20/84	0	1	
GRSM0081	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	03/25/85-07/08/85	0	4	
GRSM0084	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	04/30/68-03/24/69	0	8	
GRSM0086	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	03/20/85-07/03/85	0	4	
GRSM0087	No	00080	COLOR (PLATINUM-COBALT UNITS)	01/23/67-03/24/69	2	16	
GRSM0091	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	10/23/73-08/08/74	0	2	
GRSM0095	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	07/03/85-07/03/85	0	1	
GRSM0099	No	00080	COLOR (PLATINUM-COBALT UNITS)	04/22/85-07/16/85	0	2	
GRSM0100	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	07/08/85-07/08/85	0	1	
GRSM0102	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	04/30/68-03/24/69	0	8	
GRSM0105	No	00080	COLOR (PLATINUM-COBALT UNITS)	04/30/68-03/24/69	0	9	
GRSM0106	No	00080	COLOR (PLATINUM-COBALT UNITS)	03/25/85-07/16/85	0	4	
GRSM0107	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	09/24/68-09/24/68	0	1	
GRSM0120	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	09/24/68-09/24/68	0	1	
GRSM0144	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	09/25/68-09/25/68	0	1	
GRSM0152	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	07/10/85-07/10/85	0	1	
GRSM0161	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	09/25/68-09/25/68	0	1	
GRSM0164	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	09/25/68-09/25/68	0	1	
GRSM0177	No	00080	COLOR (PLATINUM-COBALT UNITS)	11/20/84-11/20/84	0	1	
GRSM0178	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	09/24/68-09/24/68	0	1	
GRSM0182	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	08/10/63-09/30/68	5	20	
GRSM0184	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	10/18/62-05/29/79	16	60	
GRSM0185	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	10/04/73-10/04/73	0	1	
GRSM0190	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	03/27/85-07/10/85	0	4	
GRSM0191	No	00080	COLOR (PLATINUM-COBALT UNITS)	11/20/84-11/20/84	0	1	
GRSM0193	No	00080	COLOR (PLATINUM-COBALT UNITS)	05/11/83-08/31/83	0	6	
GRSM0194	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	03/25/85-07/08/85	0	4	
GRSM0195	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	07/16/85-07/16/85	0	1	
GRSM0200	No	00080	COLOR (PLATINUM-COBALT UNITS)	05/11/83-08/31/83	0	6	
GRSM0202	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	01/08/68-03/18/75	7	19	
GRSM0206	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	07/08/85-07/08/85	0	1	
GRSM0208	No	00080	COLOR (PLATINUM-COBALT UNITS)	11/29/84-11/29/84	0	1	
GRSM0213	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	03/28/85-07/16/85	0	4	
GRSM0214	No	00080	COLOR (PLATINUM-COBALT UNITS)	05/05/78-05/05/78	0	1	
GRSM0215	No	00080	COLOR (PLATINUM-COBALT UNITS)	04/24/74-03/18/75	0	14	
GRSM0216	No	00080	COLOR (PLATINUM-COBALT UNITS)	05/04/78-05/04/78	0	1	
GRSM0217	No	00080	COLOR (PLATINUM-COBALT UNITS)	05/06/78-05/06/78	0	1	
GRSM0221	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	09/25/68-09/25/68	0	1	
GRSM0222	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	01/08/68-03/18/75	7	20	
GRSM0223	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	09/06/67-08/01/68	0	4	
GRSM0227	No	00080	COLOR (PLATINUM-COBALT UNITS)	09/25/68-09/25/68	0	1	
GRSM0229	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	12/13/83-05/15/85	1	51	
GRSM0237	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	03/28/85-07/10/85	0	4	
GRSM0240	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	09/24/68-09/24/68	0	1	
GRSM0244	No	00080	COLOR (PLATINUM-COBALT UNITS)	10/10/67-12/06/68	1	15	
GRSM0248	No	00080	COLOR (PLATINUM-COBALT UNITS)	04/24/74-03/18/75	0	14	
GRSM0249	No	00080	COLOR (PLATINUM-COBALT UNITS)	10/17/57-03/28/73	15	69	
GRSM0250	No	00080	COLOR (PLATINUM-COBALT UNITS)	10/21/75-02/08/77	1	17	
GRSM0251	No	00080	COLOR (PLATINUM-COBALT UNITS)	10/21/75-09/07/76	0	13	
GRSM0253	No	00080	COLOR (PLATINUM-COBALT UNITS)	06/05/73-06/08/73	0	4	
GRSM0255	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	07/07/85-07/07/85	0	1	
GRSM0256	No	00080	COLOR (PLATINUM-COBALT UNITS)	05/16/68-12/05/94	26	88	S
GRSM0258	No	00080	COLOR (PLATINUM-COBALT UNITS)	01/07/65-09/06/83	18	11	
GRSM0259	No	00080	COLOR (PLATINUM-COBALT UNITS)	03/24/85-07/07/85	0	4	
GRSM0261	No	00080	COLOR (PLATINUM-COBALT UNITS)	06/02/64-08/22/67	3	40	
GRSM0262	No	00080	COLOR (PLATINUM-COBALT UNITS)	02/23/77-10/11/78	1	12	
GRSM0264	No	00080	COLOR (PLATINUM-COBALT UNITS)	10/20/82-12/14/92	10	73	
GRSM0036	No	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	02/04/74-01/17/77	2	38	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0041	No	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	10/18/82-10/18/82	0	1	
GRSM0048	No	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	03/03/74-01/17/77	2	36	
GRSM0054	No	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	02/15/77-09/20/77	0	8	
GRSM0057	No	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	01/28/74-09/19/77	3	45	
GRSM0061	Yes	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	10/19/82-10/19/82	0	1	
GRSM0072	Yes	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	12/13/83-05/08/85	1	22	
GRSM0077	No	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	10/18/82-10/18/82	0	1	
GRSM0078	No	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	01/28/74-01/24/77	2	37	
GRSM0193	No	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	05/11/83-08/31/83	0	6	
GRSM0200	No	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	05/11/83-08/31/83	0	6	
GRSM0202	Yes	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	04/24/74-01/14/75	0	5	
GRSM0229	Yes	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	12/13/83-05/15/85	1	51	
GRSM0244	No	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	10/10/67-12/06/68	1	14	
GRSM0250	No	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	10/21/75-02/08/77	1	17	
GRSM0258	No	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	11/03/71-09/06/83	11	3	
GRSM0261	No	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	06/02/64-08/22/67	3	40	
GRSM0262	No	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	02/23/77-08/09/77	0	7	
GRSM0264	No	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	02/16/83-12/14/92	9	26	
GRSM0256	No	00082	COLOR,SPECTROPHOTO,WATER SMPL AT7.6PH ADMI UNITS	11/12/86-12/05/94	8	43	
GRSM0256	No	00083	COLOR,SPECTROPHTOMETRIC,FIL,WATER SPL ADMI UNITS	11/12/86-12/05/94	8	45	
GRSM0021	Yes	00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)	05/03/66-01/31/67	0	9	
GRSM0057	No	00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)	05/04/66-01/30/67	0	8	
GRSM0258	No	00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)	01/07/65-11/03/71	6	9	
GRSM0006	No	00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	04/25/79-04/25/79	0	26	
GRSM0008	Yes	00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	04/25/79-04/25/79	0	40	
GRSM0069	Yes	00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	04/25/79-04/25/79	0	43	
GRSM0003	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/22/93-10/19/94	1	245	
GRSM0004	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/21/73-10/26/73	0	14	
GRSM0009	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	13	137	
GRSM0013	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	13	79	
GRSM0016	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	13	68	
GRSM0019	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/21/73-10/26/73	0	16	
GRSM0020	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/22/93-10/19/94	1	247	
GRSM0023	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/21/73-10/26/73	0	16	
GRSM0024	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	13	74	
GRSM0027	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	13	80	
GRSM0030	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/21/73-10/26/73	0	17	
GRSM0032	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/27/88-08/10/94	6	7	
GRSM0038	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/27/87-08/10/94	7	18	
GRSM0041	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/18/82-10/18/82	0	20	
GRSM0042	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/27/88-08/10/94	6	38	
GRSM0045	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/27/88-08/10/94	6	37	
GRSM0055	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-08/20/86	5	58	
GRSM0057	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/29/88-04/29/88	0	1	
GRSM0060	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/21/73-10/26/73	0	21	
GRSM0061	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/19/82-04/29/88	5	95	
GRSM0063	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/05/87-08/29/94	7	41	
GRSM0066	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/27/88-08/10/94	6	24	
GRSM0069	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/21/93-10/20/94	1	527	
GRSM0072	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	12/13/83-05/08/85	1	6	
GRSM0077	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/18/82-10/18/82	0	20	
GRSM0103	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/23/91-09/30/91	0	5	
GRSM0114	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/16/93-04/13/94	0	5	
GRSM0117	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/16/93-04/13/94	0	5	
GRSM0118	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/16/93-05/03/94	0	6	
GRSM0119	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	12/15/93-05/03/94	0	8	
GRSM0121	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/16/93-04/13/94	0	5	
GRSM0122	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/16/93-04/13/94	0	5	
GRSM0126	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/15/73-11/13/73	0	7	
GRSM0127	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/17/93-05/03/94	0	8	
GRSM0128	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/17/93-05/03/94	0	8	
GRSM0130	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/24/94-04/13/94	0	3	
GRSM0131	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/17/93-04/13/94	0	5	
GRSM0133	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/16/93-04/13/94	0	6	
GRSM0184	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/15/80-10/15/80	0	1	
GRSM0185	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	13	111	
GRSM0193	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/11/83-08/31/83	0	22	
GRSM0197	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/01/90-07/28/92	1	26	
GRSM0200	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/11/83-08/31/83	0	39	
GRSM0201	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/11/83-08/31/83	0	5	
GRSM0203	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/01/90-07/28/92	1	17	
GRSM0207	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM 25C)	08/31/83-08/31/83	0	8	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0209	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/11/83-08/31/83	0	58	
GRSM0210	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/01/90-07/28/92	1	32	
GRSM0229	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	12/13/83-05/15/85	1	7	
GRSM0247	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/20/73-09/20/73	0	5	
GRSM0256	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	13	114	
GRSM0257	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/20/73-09/20/73	0	4	
GRSM0258	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/12/83-09/06/83	0	2	
GRSM0265	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/28/89-06/28/89	0	3	
GRSM0004	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/03/73-06/03/73	0	9	
GRSM0006	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/13/79-09/26/79	0	75	
GRSM0007	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-07/31/79	5	13	
GRSM0008	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/13/79-09/26/79	0	103	
GRSM0009	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/18/74-02/14/90	15	61	
GRSM0010	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/56-05/09/72	15	72	
GRSM0011	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/12/74-07/13/77	2	3	
GRSM0013	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-06/17/80	5	19	
GRSM0016	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-06/17/80	5	15	
GRSM0019	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/02/73-06/02/73	0	10	
GRSM0021	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/03/66-01/31/67	0	9	
GRSM0022	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-07/31/79	5	15	
GRSM0023	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/02/73-06/02/73	0	8	
GRSM0024	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-06/17/80	5	18	
GRSM0027	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-06/17/80	5	15	
GRSM0030	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/02/73-06/02/73	0	8	
GRSM0031	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/23/73-09/06/73	0	4	
GRSM0036	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/04/74-01/17/77	2	38	
GRSM0037	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/29/74-03/12/81	6	47	
GRSM0041	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/82-10/18/82	0	1	
GRSM0048	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/03/74-01/17/77	2	36	
GRSM0050	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/20/84-11/20/84	0	1	
GRSM0052	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/20/84-11/20/84	0	1	
GRSM0054	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/15/77-12/27/78	1	23	
GRSM0055	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/27/74-12/07/81	7	52	
GRSM0056	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/21/68-05/24/72	4	11	
GRSM0057	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/66-06/17/80	14	68	
GRSM0060	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/02/73-06/02/73	0	10	
GRSM0061	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/82-10/19/82	0	1	
GRSM0063	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-07/16/79	5	15	
GRSM0069	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/13/79-09/26/79	0	104	
GRSM0070	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/12/74-11/14/74	0	2	
GRSM0071	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/25/85-07/11/85	0	4	
GRSM0072	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/23/84-06/07/85	1	32	
GRSM0073	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/12/74-11/14/74	0	2	
GRSM0074	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/06/56-04/13/62	5	8	
GRSM0076	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/68-09/25/68	0	1	
GRSM0077	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/82-10/18/82	0	1	
GRSM0078	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/28/74-01/24/77	2	37	
GRSM0080	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/20/84-11/20/84	0	1	
GRSM0081	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/25/85-07/08/85	0	4	
GRSM0084	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/30/68-03/24/69	0	8	
GRSM0085	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/18/74-02/24/75	0	6	
GRSM0086	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/20/85-07/03/85	0	4	
GRSM0087	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/23/67-03/24/69	2	17	
GRSM0088	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/19/74-02/24/75	0	5	
GRSM0091	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/23/73-03/10/78	4	4	
GRSM0094	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/82-03/26/82	0	1	
GRSM0095	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/03/85-07/03/85	0	1	
GRSM0098	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/82-03/26/82	0	1	
GRSM0099	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/22/85-07/16/85	0	2	
GRSM0100	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/08/85-07/08/85	0	1	
GRSM0101	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/18/74-02/24/75	0	6	
GRSM0102	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/30/68-03/24/69	0	8	
GRSM0105	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/30/68-03/24/69	0	9	
GRSM0106	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/25/85-07/16/85	0	4	
GRSM0107	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/24/68-09/24/68	0	1	
GRSM0108	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/82-03/26/82	0	1	
GRSM0109	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/18/74-02/24/75	0	6	
GRSM0110	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/12/81-03/26/82	0	3	
GRSM0112	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/12/81-06/21/82	0	13	
GRSM0113	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/02/81-10/20/82	0	513	
GRSM0115	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/11/82-08/11/82	0	1	
GRSM0116	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM 25C)	07/27/82-10/20/82	0	380	

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Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0120	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/24/68-09/24/68	0	1	
GRSM0126	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/27/73-11/13/73	0	12	
GRSM0134	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/22/82-03/26/82	0	2	
GRSM0136	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/12/81-11/12/81	0	1	
GRSM0137	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/02/81-04/22/82	0	3	
GRSM0138	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/12/81-03/24/82	0	3	
GRSM0139	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/22/82-03/22/82	0	1	
GRSM0141	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/02/81-12/02/81	0	1	
GRSM0142	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/02/81-03/24/82	0	2	
GRSM0143	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/22/82-03/22/82	0	1	
GRSM0144	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/68-09/25/68	0	1	
GRSM0145	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/82-03/24/82	0	1	
GRSM0148	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/82-03/24/82	0	1	
GRSM0150	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/82-03/26/82	0	1	
GRSM0151	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/11/79-04/11/79	0	1	
GRSM0152	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/10/85-07/10/85	0	1	
GRSM0155	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/11/79-04/11/79	0	1	
GRSM0157	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/11/79-04/11/79	0	1	
GRSM0160	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/20/82-04/20/82	0	1	
GRSM0161	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/68-09/25/68	0	1	
GRSM0163	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/23/82-04/20/82	0	2	
GRSM0164	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/68-09/25/68	0	1	
GRSM0166	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/23/82-03/23/82	0	1	
GRSM0167	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/21/82-04/21/82	0	1	
GRSM0169	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/23/82-03/23/82	0	1	
GRSM0173	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/02/81-03/25/82	0	2	
GRSM0175	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/02/81-03/25/82	0	2	
GRSM0177	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/20/84-11/20/84	0	1	
GRSM0178	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/24/68-09/24/68	0	1	
GRSM0182	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/10/63-11/22/94	31	122	T,S
GRSM0184	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	30	203	T,S
GRSM0185	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/29/74-12/14/89	15	102	
GRSM0186	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/23/76-04/23/76	0	1	
GRSM0189	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/11/79-04/11/79	0	1	
GRSM0190	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/27/85-07/10/85	0	4	
GRSM0191	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/20/84-11/20/84	0	1	
GRSM0194	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/25/85-07/08/85	0	4	
GRSM0195	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/85-07/16/85	0	1	
GRSM0196	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/91-08/28/91	0	2	
GRSM0202	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/08/68-03/18/75	7	19	
GRSM0206	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/08/85-07/08/85	0	1	
GRSM0208	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/29/84-11/29/84	0	1	
GRSM0213	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/28/85-07/16/85	0	4	
GRSM0214	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/05/78-05/05/78	0	1	
GRSM0215	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/74-04/24/74	0	1	
GRSM0216	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/78-05/04/78	0	1	
GRSM0217	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/06/78-05/06/78	0	1	
GRSM0220	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/83-09/26/85	1	5	
GRSM0221	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/68-09/25/68	0	1	
GRSM0222	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/08/68-04/24/74	6	7	
GRSM0223	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/06/67-08/01/68	0	4	
GRSM0227	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/68-09/25/68	0	1	
GRSM0229	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/22/84-06/08/85	1	70	
GRSM0237	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/28/85-07/10/85	0	4	
GRSM0238	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/16/76-11/16/76	0	1	
GRSM0240	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/24/68-09/24/68	0	1	
GRSM0247	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/73-07/05/73	0	13	
GRSM0248	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/74-04/24/74	0	1	
GRSM0249	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/17/57-07/25/73	15	101	
GRSM0250	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/21/75-02/08/77	1	17	
GRSM0251	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/21/75-09/07/76	0	13	
GRSM0252	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/83-09/26/85	1	5	
GRSM0253	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/05/73-06/08/73	0	4	
GRSM0254	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/19/75-12/29/81	6	48	
GRSM0255	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/07/85-07/07/85	0	1	
GRSM0256	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/04/74-12/14/89	15	75	
GRSM0257	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/73-07/05/73	0	8	
GRSM0259	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/85-07/07/85	0	4	
GRSM0260	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/78-07/17/85	7	11	
GRSM0262	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM 25C)	02/23/77-10/11/78	1	12	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0264	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/20/82-12/14/92	10	77	
GRSM0112	No	00117	PRECIPITATION,DURATION OF STORM EVENT, MINUTES	11/30/81-03/16/82	0	6	
GRSM0112	No	00123	PRECIPITATION,CUMULATIVE AT GIVEN TIME,LOC.1(IN)	11/30/81-08/02/82	0	328	
GRSM0112	No	00132	DRY DAYS PRECEDING PRECIPITATION EVENT,(DAYS)	11/30/81-03/16/82	0	5	
GRSM0112	No	00134	STORM EVENT SERIAL NUMBER MAXIMUM OF 6 SIG.FIG.	11/30/81-03/19/82	0	92	
GRSM0050	Yes	00154	SULFATE (AS S) WHOLE WATER, MG/L	11/20/84-11/20/84	0	1	
GRSM0052	No	00154	SULFATE (AS S) WHOLE WATER, MG/L	11/20/84-11/20/84	0	1	
GRSM0080	No	00154	SULFATE (AS S) WHOLE WATER, MG/L	11/20/84-11/20/84	0	1	
GRSM0177	No	00154	SULFATE (AS S) WHOLE WATER, MG/L	11/20/84-11/20/84	0	1	
GRSM0191	No	00154	SULFATE (AS S) WHOLE WATER, MG/L	11/20/84-11/20/84	0	1	
GRSM0208	No	00154	SULFATE (AS S) WHOLE WATER, MG/L	11/29/84-11/29/84	0	1	
GRSM0013	Yes	00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	08/05/87-08/05/87	0	1	
GRSM0016	Yes	00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	08/05/87-08/05/87	0	1	
GRSM0024	Yes	00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	08/05/87-08/05/87	0	1	
GRSM0027	Yes	00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	08/05/87-08/05/87	0	1	
GRSM0038	No	00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	07/27/88-07/27/88	0	1	
GRSM0042	No	00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	07/27/88-07/27/88	0	1	
GRSM0045	No	00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	07/27/88-07/27/88	0	1	
GRSM0063	Yes	00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	08/05/87-08/05/87	0	1	
GRSM0066	No	00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	07/27/88-07/27/88	0	1	
GRSM0071	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/25/85-07/11/85	0	4	
GRSM0081	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/25/85-07/08/85	0	4	
GRSM0086	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/20/85-07/03/85	0	4	
GRSM0095	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/03/85-07/03/85	0	1	
GRSM0099	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/22/85-07/16/85	0	2	
GRSM0100	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/08/85-07/08/85	0	1	
GRSM0106	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/25/85-07/16/85	0	4	
GRSM0152	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/10/85-07/10/85	0	1	
GRSM0190	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/27/85-07/10/85	0	4	
GRSM0194	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/25/85-07/08/85	0	4	
GRSM0195	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/16/85-07/16/85	0	1	
GRSM0206	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/08/85-07/08/85	0	1	
GRSM0213	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/28/85-07/16/85	0	4	
GRSM0237	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/28/85-07/10/85	0	4	
GRSM0255	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/07/85-07/07/85	0	1	
GRSM0259	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/24/85-07/07/85	0	4	
GRSM0003	No	00300	OXYGEN, DISSOLVED MG/L	04/22/93-10/19/94	1	245	
GRSM0004	No	00300	OXYGEN, DISSOLVED MG/L	06/03/73-10/26/73	0	20	
GRSM0005	No	00300	OXYGEN, DISSOLVED MG/L	09/29/70-09/29/70	0	5	
GRSM0006	No	00300	OXYGEN, DISSOLVED MG/L	04/25/79-09/26/79	0	101	
GRSM0007	No	00300	OXYGEN, DISSOLVED MG/L	07/16/74-07/31/79	5	16	
GRSM0008	Yes	00300	OXYGEN, DISSOLVED MG/L	09/29/70-09/26/79	8	156	
GRSM0009	No	00300	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	20	231	T,A
GRSM0011	No	00300	OXYGEN, DISSOLVED MG/L	07/29/68-07/13/77	8	14	
GRSM0013	Yes	00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	20	102	
GRSM0016	Yes	00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	20	86	
GRSM0019	Yes	00300	OXYGEN, DISSOLVED MG/L	06/02/73-10/26/73	0	24	
GRSM0020	Yes	00300	OXYGEN, DISSOLVED MG/L	04/22/93-10/19/94	1	247	
GRSM0021	Yes	00300	OXYGEN, DISSOLVED MG/L	05/03/66-01/31/67	0	8	
GRSM0022	No	00300	OXYGEN, DISSOLVED MG/L	07/16/74-07/31/79	5	18	
GRSM0023	Yes	00300	OXYGEN, DISSOLVED MG/L	06/02/73-10/26/73	0	21	
GRSM0024	Yes	00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	20	96	
GRSM0027	Yes	00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	20	98	
GRSM0030	Yes	00300	OXYGEN, DISSOLVED MG/L	06/02/73-10/26/73	0	22	
GRSM0032	No	00300	OXYGEN, DISSOLVED MG/L	07/27/88-08/10/94	6	7	
GRSM0036	No	00300	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	24	820	T,A
GRSM0037	No	00300	OXYGEN, DISSOLVED MG/L	06/20/68-03/12/81	12	87	
GRSM0038	No	00300	OXYGEN, DISSOLVED MG/L	07/27/87-08/10/94	7	18	
GRSM0041	No	00300	OXYGEN, DISSOLVED MG/L	10/18/82-10/18/82	0	20	
GRSM0042	No	00300	OXYGEN, DISSOLVED MG/L	07/27/88-08/10/94	6	38	
GRSM0045	No	00300	OXYGEN, DISSOLVED MG/L	07/27/88-08/10/94	6	37	
GRSM0048	No	00300	OXYGEN, DISSOLVED MG/L	02/23/68-12/11/89	21	311	T,A
GRSM0054	No	00300	OXYGEN, DISSOLVED MG/L	03/15/77-12/27/78	1	22	
GRSM0055	No	00300	OXYGEN, DISSOLVED MG/L	06/20/68-10/22/86	18	154	A
GRSM0056	No	00300	OXYGEN, DISSOLVED MG/L	05/21/68-02/21/73	4	10	
GRSM0057	No	00300	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	32	867	T,A,S
GRSM0059	No	00300	OXYGEN, DISSOLVED MG/L	06/20/68-11/27/74	6	8	
GRSM0060	Yes	00300	OXYGEN, DISSOLVED MG/L	06/02/73-10/26/73	0	28	
GRSM0061	Yes	00300	OXYGEN, DISSOLVED MG/L	10/19/82-04/29/88	5	173	
GRSM0063	Yes	00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	20	60	
GRSM0066	No	00300	OXYGEN, DISSOLVED MG/L	07/27/88-08/10/94	6	24	
GRSM0069	Yes	00300	OXYGEN, DISSOLVED MG/L	04/25/79-10/20/94	15	681	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0070	No	00300	OXYGEN, DISSOLVED MG/L	07/29/68-03/24/76	7	16	
GRSM0072	Yes	00300	OXYGEN, DISSOLVED MG/L	12/13/83-08/29/84	0	4	
GRSM0073	No	00300	OXYGEN, DISSOLVED MG/L	07/29/68-01/29/75	6	15	
GRSM0077	No	00300	OXYGEN, DISSOLVED MG/L	08/15/79-10/18/82	3	21	
GRSM0078	No	00300	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	23	1109	T,A
GRSM0084	Yes	00300	OXYGEN, DISSOLVED MG/L	04/30/68-03/24/69	0	8	
GRSM0085	Yes	00300	OXYGEN, DISSOLVED MG/L	08/13/74-02/24/75	0	10	
GRSM0087	No	00300	OXYGEN, DISSOLVED MG/L	01/23/67-03/24/69	2	16	
GRSM0088	Yes	00300	OXYGEN, DISSOLVED MG/L	08/13/74-02/24/75	0	8	
GRSM0094	No	00300	OXYGEN, DISSOLVED MG/L	03/26/82-03/26/82	0	1	
GRSM0098	No	00300	OXYGEN, DISSOLVED MG/L	03/26/82-03/26/82	0	1	
GRSM0101	No	00300	OXYGEN, DISSOLVED MG/L	08/13/74-02/24/75	0	10	
GRSM0102	Yes	00300	OXYGEN, DISSOLVED MG/L	04/30/68-03/24/69	0	8	
GRSM0103	No	00300	OXYGEN, DISSOLVED MG/L	05/23/91-09/30/91	0	6	
GRSM0105	No	00300	OXYGEN, DISSOLVED MG/L	04/30/68-03/24/69	0	9	
GRSM0108	No	00300	OXYGEN, DISSOLVED MG/L	03/26/82-03/26/82	0	1	
GRSM0109	Yes	00300	OXYGEN, DISSOLVED MG/L	08/13/74-02/24/75	0	10	
GRSM0110	No	00300	OXYGEN, DISSOLVED MG/L	12/02/81-03/26/82	0	2	
GRSM0112	No	00300	OXYGEN, DISSOLVED MG/L	12/01/81-06/21/82	0	6	
GRSM0113	No	00300	OXYGEN, DISSOLVED MG/L	12/02/81-10/20/82	0	513	
GRSM0114	Yes	00300	OXYGEN, DISSOLVED MG/L	11/16/93-04/13/94	0	5	
GRSM0115	Yes	00300	OXYGEN, DISSOLVED MG/L	08/11/82-08/11/82	0	1	
GRSM0116	Yes	00300	OXYGEN, DISSOLVED MG/L	07/27/82-10/20/82	0	380	
GRSM0117	Yes	00300	OXYGEN, DISSOLVED MG/L	11/16/93-04/13/94	0	5	
GRSM0118	Yes	00300	OXYGEN, DISSOLVED MG/L	11/16/93-05/03/94	0	6	
GRSM0119	Yes	00300	OXYGEN, DISSOLVED MG/L	12/15/93-05/03/94	0	8	
GRSM0121	Yes	00300	OXYGEN, DISSOLVED MG/L	11/16/93-04/13/94	0	5	
GRSM0122	Yes	00300	OXYGEN, DISSOLVED MG/L	11/16/93-04/13/94	0	5	
GRSM0126	Yes	00300	OXYGEN, DISSOLVED MG/L	06/27/73-11/13/73	0	9	
GRSM0127	Yes	00300	OXYGEN, DISSOLVED MG/L	11/17/93-05/03/94	0	9	
GRSM0128	Yes	00300	OXYGEN, DISSOLVED MG/L	11/17/93-05/03/94	0	8	
GRSM0130	Yes	00300	OXYGEN, DISSOLVED MG/L	01/24/94-04/13/94	0	3	
GRSM0131	Yes	00300	OXYGEN, DISSOLVED MG/L	11/17/93-04/13/94	0	5	
GRSM0133	Yes	00300	OXYGEN, DISSOLVED MG/L	09/16/93-04/13/94	0	6	
GRSM0134	Yes	00300	OXYGEN, DISSOLVED MG/L	03/22/82-03/26/82	0	2	
GRSM0137	Yes	00300	OXYGEN, DISSOLVED MG/L	12/02/81-04/22/82	0	3	
GRSM0138	Yes	00300	OXYGEN, DISSOLVED MG/L	12/02/81-03/24/82	0	2	
GRSM0139	Yes	00300	OXYGEN, DISSOLVED MG/L	03/22/82-03/22/82	0	1	
GRSM0141	Yes	00300	OXYGEN, DISSOLVED MG/L	12/02/81-12/02/81	0	1	
GRSM0142	Yes	00300	OXYGEN, DISSOLVED MG/L	12/02/81-03/24/82	0	2	
GRSM0143	Yes	00300	OXYGEN, DISSOLVED MG/L	03/22/82-03/22/82	0	1	
GRSM0145	Yes	00300	OXYGEN, DISSOLVED MG/L	03/22/82-03/22/82	0	1	
GRSM0146	Yes	00300	OXYGEN, DISSOLVED MG/L	03/24/82-03/24/82	0	1	
GRSM0148	Yes	00300	OXYGEN, DISSOLVED MG/L	03/24/82-03/24/82	0	1	
GRSM0150	Yes	00300	OXYGEN, DISSOLVED MG/L	03/26/82-03/26/82	0	1	
GRSM0151	Yes	00300	OXYGEN, DISSOLVED MG/L	04/11/79-04/11/79	0	1	
GRSM0155	Yes	00300	OXYGEN, DISSOLVED MG/L	04/11/79-04/11/79	0	1	
GRSM0157	Yes	00300	OXYGEN, DISSOLVED MG/L	04/11/79-04/11/79	0	1	
GRSM0160	Yes	00300	OXYGEN, DISSOLVED MG/L	04/20/82-04/20/82	0	1	
GRSM0163	Yes	00300	OXYGEN, DISSOLVED MG/L	03/23/82-04/20/82	0	2	
GRSM0166	Yes	00300	OXYGEN, DISSOLVED MG/L	03/23/82-03/23/82	0	1	
GRSM0167	Yes	00300	OXYGEN, DISSOLVED MG/L	04/21/82-04/21/82	0	1	
GRSM0168	Yes	00300	OXYGEN, DISSOLVED MG/L	04/21/82-04/21/82	0	1	
GRSM0169	Yes	00300	OXYGEN, DISSOLVED MG/L	03/23/82-03/23/82	0	1	
GRSM0171	Yes	00300	OXYGEN, DISSOLVED MG/L	04/15/81-07/23/81	0	4	
GRSM0173	Yes	00300	OXYGEN, DISSOLVED MG/L	12/02/81-03/25/82	0	2	
GRSM0175	Yes	00300	OXYGEN, DISSOLVED MG/L	12/02/81-03/25/82	0	2	
GRSM0182	Yes	00300	OXYGEN, DISSOLVED MG/L	10/12/67-11/22/94	27	48	S
GRSM0184	Yes	00300	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	25	205	T,S
GRSM0185	Yes	00300	OXYGEN, DISSOLVED MG/L	09/04/73-12/05/94	21	278	T,A
GRSM0186	Yes	00300	OXYGEN, DISSOLVED MG/L	04/23/76-04/23/76	0	1	
GRSM0189	Yes	00300	OXYGEN, DISSOLVED MG/L	04/11/79-04/11/79	0	1	
GRSM0192	Yes	00300	OXYGEN, DISSOLVED MG/L	04/15/81-07/23/81	0	5	
GRSM0193	No	00300	OXYGEN, DISSOLVED MG/L	05/11/83-08/31/83	0	22	
GRSM0196	No	00300	OXYGEN, DISSOLVED MG/L	08/20/91-08/20/91	0	1	
GRSM0197	No	00300	OXYGEN, DISSOLVED MG/L	08/01/90-07/28/92	1	26	
GRSM0200	No	00300	OXYGEN, DISSOLVED MG/L	05/11/83-08/31/83	0	39	
GRSM0201	No	00300	OXYGEN, DISSOLVED MG/L	05/11/83-08/31/83	0	5	
GRSM0202	Yes	00300	OXYGEN, DISSOLVED MG/L	01/08/68-03/18/75	7	19	
GRSM0203	No	00300	OXYGEN, DISSOLVED MG/L	08/01/90-07/28/92	1	17	
GRSM0207	No	00300	OXYGEN, DISSOLVED MG/L	08/31/83-08/31/83	0	8	
GRSM0209	No	00300	OXYGEN, DISSOLVED MG/L	05/11/83-08/31/83	0	58	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0210	No	00300	OXYGEN, DISSOLVED MG/L	08/01/90-07/28/92	1	32	
GRSM0215	No	00300	OXYGEN, DISSOLVED MG/L	01/08/68-03/18/75	7	22	
GRSM0218	No	00300	OXYGEN, DISSOLVED MG/L	04/15/81-08/13/81	0	5	
GRSM0219	No	00300	OXYGEN, DISSOLVED MG/L	04/15/81-08/13/81	0	5	
GRSM0222	Yes	00300	OXYGEN, DISSOLVED MG/L	01/08/68-03/18/75	7	22	
GRSM0225	Yes	00300	OXYGEN, DISSOLVED MG/L	04/15/81-08/13/81	0	5	
GRSM0226	Yes	00300	OXYGEN, DISSOLVED MG/L	05/30/81-08/13/81	0	3	
GRSM0228	Yes	00300	OXYGEN, DISSOLVED MG/L	05/06/81-05/06/81	0	1	
GRSM0229	Yes	00300	OXYGEN, DISSOLVED MG/L	12/13/83-08/28/84	0	4	
GRSM0234	No	00300	OXYGEN, DISSOLVED MG/L	04/15/81-08/13/81	0	5	
GRSM0236	No	00300	OXYGEN, DISSOLVED MG/L	04/15/81-08/13/81	0	6	
GRSM0239	No	00300	OXYGEN, DISSOLVED MG/L	04/15/81-08/13/81	0	6	
GRSM0242	Yes	00300	OXYGEN, DISSOLVED MG/L	08/26/68-08/26/68	0	1	
GRSM0244	No	00300	OXYGEN, DISSOLVED MG/L	10/10/67-12/06/68	1	15	
GRSM0247	No	00300	OXYGEN, DISSOLVED MG/L	03/24/73-09/20/73	0	16	
GRSM0248	No	00300	OXYGEN, DISSOLVED MG/L	04/24/74-03/18/75	0	14	
GRSM0249	No	00300	OXYGEN, DISSOLVED MG/L	06/27/68-07/25/73	5	30	
GRSM0250	No	00300	OXYGEN, DISSOLVED MG/L	10/21/75-06/01/94	18	19	
GRSM0251	No	00300	OXYGEN, DISSOLVED MG/L	10/21/75-09/07/76	0	13	
GRSM0253	No	00300	OXYGEN, DISSOLVED MG/L	06/05/73-06/08/73	0	4	
GRSM0256	No	00300	OXYGEN, DISSOLVED MG/L	04/06/72-12/05/94	22	247	T,A
GRSM0257	No	00300	OXYGEN, DISSOLVED MG/L	03/24/73-09/20/73	0	10	
GRSM0258	No	00300	OXYGEN, DISSOLVED MG/L	01/07/65-09/06/83	18	11	
GRSM0262	No	00300	OXYGEN, DISSOLVED MG/L	02/23/77-10/11/78	1	12	
GRSM0264	No	00300	OXYGEN, DISSOLVED MG/L	10/20/82-12/14/92	10	77	
GRSM0265	No	00300	OXYGEN, DISSOLVED MG/L	06/28/89-06/28/89	0	3	
GRSM0007	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/16/74-07/20/77	3	4	
GRSM0009	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-09/05/85	11	83	
GRSM0011	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/29/68-12/10/74	6	13	
GRSM0013	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/16/74-07/20/77	3	8	
GRSM0016	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/16/74-07/20/77	3	4	
GRSM0022	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/16/74-07/20/77	3	4	
GRSM0024	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/16/74-08/05/87	13	10	
GRSM0027	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/16/74-07/20/77	3	4	
GRSM0037	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-07/18/78	10	50	
GRSM0055	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-09/06/85	17	83	
GRSM0059	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-11/27/74	6	8	
GRSM0063	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/16/74-07/20/77	3	4	
GRSM0070	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/29/68-03/24/76	7	16	
GRSM0073	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/29/68-01/29/75	6	14	
GRSM0085	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-02/24/75	0	8	
GRSM0088	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-02/24/75	0	6	
GRSM0101	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-02/24/75	0	7	
GRSM0109	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-02/24/75	0	8	
GRSM0182	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	01/17/68-03/18/68	0	2	
GRSM0184	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/05/68-07/05/68	0	1	
GRSM0185	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/04/73-09/19/85	12	149	
GRSM0210	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/28/92-07/28/92	0	1	
GRSM0256	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/71-09/19/85	14	113	
GRSM0193	No	00303	BOD, 1DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	00303	BOD, 1DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0258	No	00303	BOD, 1DAY, 20 DEG C MG/L	05/12/83-09/06/83	0	2	
GRSM0193	No	00304	BOD, 2 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	00304	BOD, 2 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0258	No	00304	BOD, 2 DAY, 20 DEG C MG/L	05/12/83-09/06/83	0	2	
GRSM0193	No	00305	BOD, 3 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	00305	BOD, 3 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0258	No	00305	BOD, 3 DAY, 20 DEG C MG/L	05/12/83-09/06/83	0	2	
GRSM0193	No	00306	BOD, 4 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	00306	BOD, 4 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0258	No	00306	BOD, 4 DAY, 20 DEG C MG/L	05/12/83-09/06/83	0	2	
GRSM0007	No	00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	07/16/74-07/29/75	1	2	
GRSM0011	No	00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	09/12/74-11/14/74	0	2	
GRSM0013	Yes	00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	07/16/74-07/31/75	1	5	
GRSM0016	Yes	00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	07/16/74-07/29/75	1	2	
GRSM0022	No	00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	07/16/74-07/29/75	1	2	
GRSM0024	Yes	00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	07/16/74-07/31/75	1	5	
GRSM0027	Yes	00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	07/16/74-07/29/75	1	2	
GRSM0063	Yes	00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	07/16/74-07/29/75	1	2	
GRSM0070	No	00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	09/12/74-11/14/74	0	2	
GRSM0073	No	00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	09/12/74-11/14/74	0	2	
GRSM0006	No	00310	BOD, 5 DAY, 20 DEG C MG/L	04/25/79-09/26/79	0	8	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0008	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	04/25/79-09/26/79	0	8	
GRSM0009	No	00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	18	156	
GRSM0011	No	00310	BOD, 5 DAY, 20 DEG C MG/L	07/29/68-07/28/71	2	7	
GRSM0021	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	05/03/66-01/31/67	0	9	
GRSM0036	No	00310	BOD, 5 DAY, 20 DEG C MG/L	03/18/76-11/10/76	0	3	
GRSM0037	No	00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-03/12/81	7	78	
GRSM0048	No	00310	BOD, 5 DAY, 20 DEG C MG/L	03/18/76-07/22/76	0	3	
GRSM0054	No	00310	BOD, 5 DAY, 20 DEG C MG/L	02/15/77-12/27/78	1	23	
GRSM0055	No	00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-08/20/86	12	128	
GRSM0057	No	00310	BOD, 5 DAY, 20 DEG C MG/L	05/04/66-06/17/80	14	20	
GRSM0069	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	04/25/79-09/26/79	0	8	
GRSM0070	No	00310	BOD, 5 DAY, 20 DEG C MG/L	07/29/68-03/24/76	7	11	
GRSM0073	No	00310	BOD, 5 DAY, 20 DEG C MG/L	07/29/68-01/29/75	6	10	
GRSM0078	No	00310	BOD, 5 DAY, 20 DEG C MG/L	03/18/76-11/10/76	0	3	
GRSM0084	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	04/30/68-03/24/69	0	8	
GRSM0085	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-02/24/75	0	9	
GRSM0087	No	00310	BOD, 5 DAY, 20 DEG C MG/L	01/23/67-03/24/69	2	17	
GRSM0088	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-02/24/75	0	8	
GRSM0101	No	00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-02/24/75	0	9	
GRSM0102	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	04/30/68-03/24/69	0	8	
GRSM0105	No	00310	BOD, 5 DAY, 20 DEG C MG/L	04/30/68-03/24/69	0	9	
GRSM0109	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-02/24/75	0	9	
GRSM0114	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	09/15/93-04/13/94	0	6	
GRSM0117	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	09/15/93-04/13/94	0	6	
GRSM0118	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	09/15/93-03/16/94	0	5	
GRSM0119	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	12/15/93-05/03/94	0	5	
GRSM0121	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	09/15/93-03/16/94	0	6	
GRSM0122	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	09/15/93-04/13/94	0	6	
GRSM0127	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	09/15/93-05/03/94	0	8	
GRSM0128	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	11/17/93-05/03/94	0	7	
GRSM0130	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	01/24/94-04/13/94	0	3	
GRSM0131	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	11/17/93-04/13/94	0	5	
GRSM0133	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	09/16/93-04/13/94	0	4	
GRSM0171	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	04/15/81-07/23/81	0	4	
GRSM0182	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	10/12/67-07/23/68	0	10	
GRSM0184	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	11/01/67-07/12/78	10	74	
GRSM0185	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	09/04/73-06/26/91	17	231	A
GRSM0192	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	04/15/81-07/23/81	0	5	
GRSM0193	No	00310	BOD, 5 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	00310	BOD, 5 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0202	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	01/08/68-03/18/75	7	19	
GRSM0215	No	00310	BOD, 5 DAY, 20 DEG C MG/L	04/24/74-03/18/75	0	14	
GRSM0218	No	00310	BOD, 5 DAY, 20 DEG C MG/L	04/15/81-08/13/81	0	5	
GRSM0219	No	00310	BOD, 5 DAY, 20 DEG C MG/L	04/15/81-08/13/81	0	5	
GRSM0222	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	01/08/68-03/18/75	7	20	
GRSM0225	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	04/15/81-08/13/81	0	5	
GRSM0226	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	05/30/81-08/13/81	0	3	
GRSM0228	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	05/06/81-05/06/81	0	1	
GRSM0234	No	00310	BOD, 5 DAY, 20 DEG C MG/L	04/15/81-08/13/81	0	5	
GRSM0236	No	00310	BOD, 5 DAY, 20 DEG C MG/L	04/15/81-08/13/81	0	6	
GRSM0239	No	00310	BOD, 5 DAY, 20 DEG C MG/L	04/15/81-08/13/81	0	6	
GRSM0244	No	00310	BOD, 5 DAY, 20 DEG C MG/L	10/10/67-12/06/68	1	15	
GRSM0248	No	00310	BOD, 5 DAY, 20 DEG C MG/L	04/24/74-03/18/75	0	14	
GRSM0249	No	00310	BOD, 5 DAY, 20 DEG C MG/L	08/18/69-03/28/73	3	22	
GRSM0250	No	00310	BOD, 5 DAY, 20 DEG C MG/L	11/18/75-02/08/77	1	19	
GRSM0251	No	00310	BOD, 5 DAY, 20 DEG C MG/L	11/18/75-09/07/76	0	14	
GRSM0253	No	00310	BOD, 5 DAY, 20 DEG C MG/L	06/05/73-06/08/73	0	4	
GRSM0256	No	00310	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	22	210	T,A
GRSM0258	No	00310	BOD, 5 DAY, 20 DEG C MG/L	01/07/65-09/06/83	18	11	
GRSM0262	No	00310	BOD, 5 DAY, 20 DEG C MG/L	02/23/77-10/11/78	1	12	
GRSM0264	No	00310	BOD, 5 DAY, 20 DEG C MG/L	10/20/82-12/14/92	10	71	
GRSM0193	No	00312	BOD, 6 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	00312	BOD, 6 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0258	No	00312	BOD, 6 DAY, 20 DEG C MG/L	05/12/83-09/06/83	0	2	
GRSM0193	No	00315	BOD, 7 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	00315	BOD, 7 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0258	No	00315	BOD, 7 DAY, 20 DEG C MG/L	05/12/83-09/06/83	0	2	
GRSM0193	No	00316	BOD, 8 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	00316	BOD, 8 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0258	No	00316	BOD, 8 DAY, 20 DEG C MG/L	09/06/83-09/06/83	0	1	
GRSM0193	No	00317	BOD, 9 DAY, 20 DEG C MG/L	08/31/83-08/31/83	0	3	
GRSM0200	No	00317	BOD, 9 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	4	

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Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0258	No	00317	BOD, 9 DAY, 20 DEG C MG/L	05/12/83-09/06/83	0	2	
GRSM0193	No	00322	BOD, 10 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	00322	BOD, 10 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0258	No	00322	BOD, 10 DAY, 20 DEG C MG/L	05/12/83-09/06/83	0	2	
GRSM0193	No	00323	BOD, 15 DAY, 20 DEG C MG/L	08/31/83-08/31/83	0	3	
GRSM0200	No	00323	BOD, 15 DAY, 20 DEG C MG/L	08/31/83-08/31/83	0	3	
GRSM0193	No	00324	BOD, 20 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	00324	BOD, 20 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0264	No	00324	BOD, 20 DAY, 20 DEG C MG/L	12/16/82-02/25/92	9	27	
GRSM0005	No	00326	BOD, 28 DAY, 20 DEG C MG.L	09/29/70-09/29/70	0	1	
GRSM0008	Yes	00326	BOD, 28 DAY, 20 DEG C MG.L	09/29/70-09/29/70	0	1	
GRSM0258	No	00326	BOD, 28 DAY, 20 DEG C MG.L	05/12/83-09/06/83	0	2	
GRSM0193	No	00327	BOD, 11DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	00327	BOD, 11DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	00328	BOD, 12 DAY, 20 DEG C MG/L	05/11/83-05/11/83	0	2	
GRSM0258	No	00328	BOD, 12 DAY, 20 DEG C MG/L	05/12/83-09/06/83	0	2	
GRSM0193	No	00329	BOD, 13 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	00329	BOD, 13 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0258	No	00331	BOD, 16 DAY, 20 DEG C MG/L	09/06/83-09/06/83	0	1	
GRSM0258	No	00332	BOD, 17 DAYS, 20 DEG C MG/L	05/12/83-05/12/83	0	1	
GRSM0193	No	00333	BOD, 18 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	00333	BOD, 18 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0258	No	00334	BOD, 19 DAY, 20 DEG C MG/L	05/12/83-09/06/83	0	2	
GRSM0009	No	00335	COD, .025N K2CR2O7 MG/L	05/10/81-11/20/84	3	18	
GRSM0021	Yes	00335	COD, .025N K2CR2O7 MG/L	01/31/67-01/31/67	0	1	
GRSM0036	No	00335	COD, .025N K2CR2O7 MG/L	02/04/74-01/17/77	2	38	
GRSM0037	No	00335	COD, .025N K2CR2O7 MG/L	11/26/73-12/05/73	0	2	
GRSM0048	No	00335	COD, .025N K2CR2O7 MG/L	03/03/74-01/17/77	2	36	
GRSM0054	No	00335	COD, .025N K2CR2O7 MG/L	02/15/77-10/24/78	1	8	
GRSM0055	No	00335	COD, .025N K2CR2O7 MG/L	11/26/73-12/31/84	11	46	
GRSM0057	No	00335	COD, .025N K2CR2O7 MG/L	01/28/74-02/26/79	5	51	
GRSM0078	No	00335	COD, .025N K2CR2O7 MG/L	01/28/74-01/24/77	2	37	
GRSM0087	No	00335	COD, .025N K2CR2O7 MG/L	01/23/67-05/27/67	0	9	
GRSM0171	Yes	00335	COD, .025N K2CR2O7 MG/L	04/15/81-07/23/81	0	4	
GRSM0184	Yes	00335	COD, .025N K2CR2O7 MG/L	09/04/73-01/15/74	0	15	
GRSM0185	Yes	00335	COD, .025N K2CR2O7 MG/L	09/04/73-12/11/84	11	58	
GRSM0192	Yes	00335	COD, .025N K2CR2O7 MG/L	04/15/81-07/23/81	0	5	
GRSM0202	Yes	00335	COD, .025N K2CR2O7 MG/L	04/24/74-01/14/75	0	4	
GRSM0218	No	00335	COD, .025N K2CR2O7 MG/L	04/15/81-08/13/81	0	5	
GRSM0219	No	00335	COD, .025N K2CR2O7 MG/L	04/15/81-08/13/81	0	5	
GRSM0225	Yes	00335	COD, .025N K2CR2O7 MG/L	04/15/81-08/13/81	0	5	
GRSM0226	Yes	00335	COD, .025N K2CR2O7 MG/L	05/30/81-08/13/81	0	3	
GRSM0228	Yes	00335	COD, .025N K2CR2O7 MG/L	05/06/81-05/06/81	0	1	
GRSM0234	No	00335	COD, .025N K2CR2O7 MG/L	04/15/81-08/13/81	0	5	
GRSM0236	No	00335	COD, .025N K2CR2O7 MG/L	04/15/81-08/13/81	0	6	
GRSM0239	No	00335	COD, .025N K2CR2O7 MG/L	04/15/81-08/13/81	0	6	
GRSM0250	No	00335	COD, .025N K2CR2O7 MG/L	10/21/75-02/08/77	1	17	
GRSM0251	No	00335	COD, .025N K2CR2O7 MG/L	10/21/75-09/07/76	0	13	
GRSM0256	No	00335	COD, .025N K2CR2O7 MG/L	10/18/73-12/11/84	11	50	
GRSM0262	No	00335	COD, .025N K2CR2O7 MG/L	02/23/77-10/11/78	1	9	
GRSM0264	No	00335	COD, .025N K2CR2O7 MG/L	10/20/82-12/14/92	10	74	
GRSM0193	No	00336	BOD, 22 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	00336	BOD, 22 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0258	No	00337	BOD, 23 DAY, 20 DEG C MG/L	09/06/83-09/06/83	0	1	
GRSM0258	No	00338	BOD, 24 DAY, 20 DEG C MG/L	05/12/83-05/12/83	0	1	
GRSM0035	Yes	00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	06/27/73-06/27/73	0	1	
GRSM0053	No	00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	06/27/73-06/27/73	0	1	
GRSM0097	No	00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	06/27/73-06/27/73	0	1	
GRSM0009	No	00340	COD, .25N K2CR2O7 MG/L	01/02/75-04/16/81	6	63	
GRSM0013	Yes	00340	COD, .25N K2CR2O7 MG/L	06/17/80-06/17/80	0	1	
GRSM0016	Yes	00340	COD, .25N K2CR2O7 MG/L	06/17/80-06/17/80	0	1	
GRSM0024	Yes	00340	COD, .25N K2CR2O7 MG/L	06/17/80-06/17/80	0	1	
GRSM0027	Yes	00340	COD, .25N K2CR2O7 MG/L	06/17/80-06/17/80	0	1	
GRSM0037	No	00340	COD, .25N K2CR2O7 MG/L	04/02/74-03/12/81	6	74	
GRSM0055	No	00340	COD, .25N K2CR2O7 MG/L	04/02/74-04/16/81	7	72	
GRSM0070	No	00340	COD, .25N K2CR2O7 MG/L	01/29/75-03/24/76	1	2	
GRSM0073	No	00340	COD, .25N K2CR2O7 MG/L	01/29/75-01/29/75	0	1	
GRSM0085	Yes	00340	COD, .25N K2CR2O7 MG/L	01/29/75-01/29/75	0	1	
GRSM0101	No	00340	COD, .25N K2CR2O7 MG/L	01/29/75-01/29/75	0	1	
GRSM0109	Yes	00340	COD, .25N K2CR2O7 MG/L	01/29/75-01/29/75	0	1	
GRSM0151	Yes	00340	COD, .25N K2CR2O7 MG/L	04/11/79-10/24/79	0	3	
GRSM0155	Yes	00340	COD, .25N K2CR2O7 MG/L	04/11/79-10/24/79	0	3	

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Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0157	Yes	00340	COD, .25N K2CR2O7 MG/L	04/11/79-10/24/79	0	3	
GRSM0184	Yes	00340	COD, .25N K2CR2O7 MG/L	01/24/74-07/12/78	4	33	
GRSM0185	Yes	00340	COD, .25N K2CR2O7 MG/L	01/24/74-04/23/81	7	136	
GRSM0189	Yes	00340	COD, .25N K2CR2O7 MG/L	04/11/79-10/24/79	0	3	
GRSM0256	No	00340	COD, .25N K2CR2O7 MG/L	10/18/68-08/04/81	12	100	
GRSM0193	No	00345	BOD, 25 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	00345	BOD, 25 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0258	No	00346	BOD, 26 DAY, 20 DEG C MG/L	05/12/83-09/06/83	0	2	
GRSM0193	No	00347	BOD, 27 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	00347	BOD, 27 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0193	No	00348	BOD, 29 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	00348	BOD, 29 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0258	No	00349	BOD, 30 DAY, 20 DEG C MG/L	09/06/83-09/06/83	0	1	
GRSM0258	No	00350	BOD, 14 DAY, 20 DEG C MG/L	05/12/83-09/06/83	0	2	
GRSM0258	No	00351	BOD, 21 DAY, 20 DEG C MG/L	05/12/83-09/06/83	0	2	
GRSM0258	No	00352	BOD, 35 DAY, 20 DEG C MG/L	05/12/83-05/12/83	0	1	
GRSM0193	No	00353	BOD, 42 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	00353	BOD, 42 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0258	No	00353	BOD, 42 DAY, 20 DEG C MG/L	05/12/83-05/12/83	0	1	
GRSM0258	No	00354	BOD, 49 DAY, 20 DEG C MG	05/12/83-05/12/83	0	1	
GRSM0258	No	00355	BOD, 56 DAY, 20 DEG C MG/L	05/12/83-05/12/83	0	1	
GRSM0193	No	00356	BOD, 63 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	00356	BOD, 63 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0258	No	00356	BOD, 63 DAY, 20 DEG C MG/L	05/12/83-09/06/83	0	2	
GRSM0193	No	00357	BOD, 70 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	00357	BOD, 70 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0258	No	00357	BOD, 70 DAY, 20 DEG C MG/L	05/12/83-09/06/83	0	2	
GRSM0193	No	00358	BOD, 77 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	00358	BOD, 77 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0258	No	00358	BOD, 77 DAY, 20 DEG C MG/L	05/12/83-09/06/83	0	2	
GRSM0193	No	00361	BOD, 98 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	00361	BOD, 98 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0258	No	00361	BOD, 98 DAY, 20 DEG C MG/L	05/12/83-09/06/83	0	2	
GRSM0258	No	00362	BOD, 40 DAY, 20 DEG C MG/L	05/12/83-09/06/83	0	2	
GRSM0193	No	00363	BOD, 50 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	00363	BOD, 50 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	4	
GRSM0193	No	00364	BOD, 100 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	00364	BOD, 100 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0258	No	00364	BOD, 100 DAY, 20 DEG C MG/L	05/12/83-09/06/83	0	2	
GRSM0003	No	00400	PH (STANDARD UNITS)	04/22/93-10/19/94	1	245	
GRSM0004	No	00400	PH (STANDARD UNITS)	06/03/73-10/26/73	0	23	
GRSM0006	No	00400	PH (STANDARD UNITS)	04/25/79-09/26/79	0	101	
GRSM0007	No	00400	PH (STANDARD UNITS)	07/29/75-07/31/79	4	16	
GRSM0008	Yes	00400	PH (STANDARD UNITS)	04/25/79-09/26/79	0	144	
GRSM0009	No	00400	PH (STANDARD UNITS)	08/13/74-01/09/95	20	210	T,A
GRSM0010	No	00400	PH (STANDARD UNITS)	10/19/56-05/09/72	15	72	
GRSM0011	No	00400	PH (STANDARD UNITS)	07/29/68-07/13/77	8	14	
GRSM0013	Yes	00400	PH (STANDARD UNITS)	07/09/75-08/29/94	19	100	
GRSM0016	Yes	00400	PH (STANDARD UNITS)	07/29/75-08/29/94	19	84	
GRSM0019	Yes	00400	PH (STANDARD UNITS)	06/02/73-10/26/73	0	27	
GRSM0020	Yes	00400	PH (STANDARD UNITS)	04/22/93-10/19/94	1	247	
GRSM0021	Yes	00400	PH (STANDARD UNITS)	05/03/66-01/31/67	0	9	
GRSM0022	No	00400	PH (STANDARD UNITS)	07/29/75-07/31/79	4	16	
GRSM0023	Yes	00400	PH (STANDARD UNITS)	06/02/73-10/26/73	0	24	
GRSM0024	Yes	00400	PH (STANDARD UNITS)	07/09/75-08/29/94	19	95	
GRSM0027	Yes	00400	PH (STANDARD UNITS)	07/29/75-08/29/94	19	98	
GRSM0030	Yes	00400	PH (STANDARD UNITS)	06/02/73-10/26/73	0	25	
GRSM0031	No	00400	PH (STANDARD UNITS)	01/23/73-09/06/73	0	4	
GRSM0032	No	00400	PH (STANDARD UNITS)	07/27/88-08/10/94	6	7	
GRSM0036	No	00400	PH (STANDARD UNITS)	02/04/74-01/17/77	2	38	
GRSM0037	No	00400	PH (STANDARD UNITS)	06/20/68-03/12/81	12	77	
GRSM0038	No	00400	PH (STANDARD UNITS)	07/27/87-08/10/94	7	18	
GRSM0041	No	00400	PH (STANDARD UNITS)	10/18/82-10/18/82	0	20	
GRSM0042	No	00400	PH (STANDARD UNITS)	07/27/88-08/10/94	6	38	
GRSM0045	No	00400	PH (STANDARD UNITS)	07/27/88-08/10/94	6	37	
GRSM0048	No	00400	PH (STANDARD UNITS)	03/03/74-01/17/77	2	36	
GRSM0054	No	00400	PH (STANDARD UNITS)	02/15/77-12/27/78	1	23	
GRSM0055	No	00400	PH (STANDARD UNITS)	06/20/68-10/22/86	18	140	
GRSM0056	No	00400	PH (STANDARD UNITS)	05/21/68-02/21/73	4	18	
GRSM0057	No	00400	PH (STANDARD UNITS)	05/04/66-04/29/88	21	69	
GRSM0059	No	00400	PH (STANDARD UNITS)	06/20/68-11/27/74	6	8	
GRSM0060	Yes	00400	PH (STANDARD UNITS)	06/02/73-10/26/73	0	31	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0061	Yes	00400	PH (STANDARD UNITS)	10/19/82-04/29/88	5	95	
GRSM0063	Yes	00400	PH (STANDARD UNITS)	07/29/75-08/29/94	19	58	
GRSM0066	No	00400	PH (STANDARD UNITS)	07/27/88-08/10/94	6	24	
GRSM0069	Yes	00400	PH (STANDARD UNITS)	04/25/79-10/20/94	15	681	
GRSM0070	No	00400	PH (STANDARD UNITS)	07/29/68-03/24/76	7	16	
GRSM0072	Yes	00400	PH (STANDARD UNITS)	12/13/83-05/08/85	1	7	
GRSM0073	No	00400	PH (STANDARD UNITS)	07/29/68-01/29/75	6	15	
GRSM0074	Yes	00400	PH (STANDARD UNITS)	11/06/56-04/13/62	5	8	
GRSM0076	No	00400	PH (STANDARD UNITS)	09/25/68-09/25/68	0	1	
GRSM0077	No	00400	PH (STANDARD UNITS)	10/18/82-10/18/82	0	20	
GRSM0078	No	00400	PH (STANDARD UNITS)	01/28/74-01/24/77	2	37	
GRSM0084	Yes	00400	PH (STANDARD UNITS)	04/30/68-03/24/69	0	7	
GRSM0085	Yes	00400	PH (STANDARD UNITS)	08/13/74-02/24/75	0	10	
GRSM0087	No	00400	PH (STANDARD UNITS)	01/23/67-03/24/69	2	15	
GRSM0088	Yes	00400	PH (STANDARD UNITS)	08/13/74-02/24/75	0	8	
GRSM0091	Yes	00400	PH (STANDARD UNITS)	10/23/73-08/08/74	0	2	
GRSM0094	No	00400	PH (STANDARD UNITS)	03/26/82-03/26/82	0	1	
GRSM0098	No	00400	PH (STANDARD UNITS)	03/26/82-03/26/82	0	1	
GRSM0101	No	00400	PH (STANDARD UNITS)	08/13/74-02/24/75	0	10	
GRSM0102	Yes	00400	PH (STANDARD UNITS)	04/30/68-03/24/69	0	7	
GRSM0103	No	00400	PH (STANDARD UNITS)	05/23/91-08/01/91	0	4	
GRSM0105	No	00400	PH (STANDARD UNITS)	04/30/68-03/24/69	0	8	
GRSM0107	Yes	00400	PH (STANDARD UNITS)	09/24/68-09/24/68	0	1	
GRSM0108	No	00400	PH (STANDARD UNITS)	03/26/82-03/26/82	0	1	
GRSM0109	Yes	00400	PH (STANDARD UNITS)	08/13/74-02/24/75	0	10	
GRSM0110	No	00400	PH (STANDARD UNITS)	11/12/81-03/26/82	0	3	
GRSM0111	No	00400	PH (STANDARD UNITS)	07/29/82-07/29/82	0	1	
GRSM0112	No	00400	PH (STANDARD UNITS)	11/12/81-08/01/82	0	135	
GRSM0113	No	00400	PH (STANDARD UNITS)	12/02/81-10/20/82	0	512	
GRSM0114	Yes	00400	PH (STANDARD UNITS)	11/16/93-04/13/94	0	5	
GRSM0115	Yes	00400	PH (STANDARD UNITS)	08/11/82-08/11/82	0	1	
GRSM0116	Yes	00400	PH (STANDARD UNITS)	07/27/82-10/20/82	0	380	
GRSM0117	Yes	00400	PH (STANDARD UNITS)	11/16/93-04/13/94	0	5	
GRSM0118	Yes	00400	PH (STANDARD UNITS)	11/16/93-05/03/94	0	6	
GRSM0119	Yes	00400	PH (STANDARD UNITS)	12/15/93-05/03/94	0	8	
GRSM0120	Yes	00400	PH (STANDARD UNITS)	09/24/68-09/24/68	0	1	
GRSM0121	Yes	00400	PH (STANDARD UNITS)	11/16/93-04/13/94	0	5	
GRSM0122	Yes	00400	PH (STANDARD UNITS)	11/16/93-04/13/94	0	5	
GRSM0126	Yes	00400	PH (STANDARD UNITS)	06/27/73-11/13/73	0	12	
GRSM0127	Yes	00400	PH (STANDARD UNITS)	11/17/93-05/03/94	0	9	
GRSM0128	Yes	00400	PH (STANDARD UNITS)	11/17/93-05/03/94	0	8	
GRSM0130	Yes	00400	PH (STANDARD UNITS)	01/24/94-04/13/94	0	3	
GRSM0131	Yes	00400	PH (STANDARD UNITS)	11/17/93-04/13/94	0	5	
GRSM0133	Yes	00400	PH (STANDARD UNITS)	09/16/93-04/13/94	0	6	
GRSM0134	Yes	00400	PH (STANDARD UNITS)	03/22/82-03/26/82	0	2	
GRSM0136	Yes	00400	PH (STANDARD UNITS)	11/12/81-11/12/81	0	1	
GRSM0137	Yes	00400	PH (STANDARD UNITS)	12/02/81-04/22/82	0	3	
GRSM0138	Yes	00400	PH (STANDARD UNITS)	11/12/81-03/24/82	0	3	
GRSM0139	Yes	00400	PH (STANDARD UNITS)	03/22/82-03/22/82	0	1	
GRSM0141	Yes	00400	PH (STANDARD UNITS)	12/02/81-12/02/81	0	1	
GRSM0142	Yes	00400	PH (STANDARD UNITS)	12/02/81-03/24/82	0	2	
GRSM0143	Yes	00400	PH (STANDARD UNITS)	03/22/82-03/22/82	0	1	
GRSM0144	Yes	00400	PH (STANDARD UNITS)	09/25/68-09/25/68	0	1	
GRSM0145	Yes	00400	PH (STANDARD UNITS)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	00400	PH (STANDARD UNITS)	03/24/82-03/24/82	0	1	
GRSM0148	Yes	00400	PH (STANDARD UNITS)	03/24/82-03/24/82	0	1	
GRSM0150	Yes	00400	PH (STANDARD UNITS)	03/26/82-03/26/82	0	1	
GRSM0151	Yes	00400	PH (STANDARD UNITS)	04/11/79-10/24/79	0	3	
GRSM0155	Yes	00400	PH (STANDARD UNITS)	04/11/79-10/24/79	0	3	
GRSM0157	Yes	00400	PH (STANDARD UNITS)	04/11/79-10/24/79	0	3	
GRSM0160	Yes	00400	PH (STANDARD UNITS)	04/20/82-04/20/82	0	1	
GRSM0161	Yes	00400	PH (STANDARD UNITS)	09/25/68-09/25/68	0	1	
GRSM0163	Yes	00400	PH (STANDARD UNITS)	03/23/82-04/20/82	0	2	
GRSM0164	Yes	00400	PH (STANDARD UNITS)	09/25/68-09/25/68	0	1	
GRSM0166	Yes	00400	PH (STANDARD UNITS)	03/23/82-03/23/82	0	1	
GRSM0167	Yes	00400	PH (STANDARD UNITS)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	00400	PH (STANDARD UNITS)	04/21/82-04/21/82	0	1	
GRSM0169	Yes	00400	PH (STANDARD UNITS)	03/23/82-03/23/82	0	1	
GRSM0173	Yes	00400	PH (STANDARD UNITS)	12/02/81-03/25/82	0	2	
GRSM0175	Yes	00400	PH (STANDARD UNITS)	12/02/81-03/25/82	0	2	
GRSM0178	Yes	00400	PH (STANDARD UNITS)	09/24/68-09/24/68	0	1	
GRSM0182	Yes	00400	PH (STANDARD UNITS)	08/10/63-11/22/94	31	62	S

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0184	Yes	00400	PH (STANDARD UNITS)	10/18/62-05/11/93	30	236	T,S
GRSM0185	Yes	00400	PH (STANDARD UNITS)	09/04/73-12/05/94	21	264	T,A
GRSM0186	Yes	00400	PH (STANDARD UNITS)	04/23/76-04/23/76	0	1	
GRSM0189	Yes	00400	PH (STANDARD UNITS)	04/11/79-10/24/79	0	3	
GRSM0193	No	00400	PH (STANDARD UNITS)	05/11/83-08/31/83	0	22	
GRSM0197	No	00400	PH (STANDARD UNITS)	08/01/90-07/28/92	1	26	
GRSM0200	No	00400	PH (STANDARD UNITS)	05/11/83-08/31/83	0	38	
GRSM0201	No	00400	PH (STANDARD UNITS)	05/11/83-08/31/83	0	5	
GRSM0202	Yes	00400	PH (STANDARD UNITS)	01/08/68-03/18/75	7	19	
GRSM0203	No	00400	PH (STANDARD UNITS)	08/01/90-07/28/92	1	17	
GRSM0207	No	00400	PH (STANDARD UNITS)	08/31/83-08/31/83	0	8	
GRSM0209	No	00400	PH (STANDARD UNITS)	05/11/83-08/31/83	0	58	
GRSM0210	No	00400	PH (STANDARD UNITS)	08/01/90-07/28/92	1	32	
GRSM0214	No	00400	PH (STANDARD UNITS)	05/05/78-05/05/78	0	1	
GRSM0215	No	00400	PH (STANDARD UNITS)	03/11/68-03/18/75	7	18	
GRSM0216	No	00400	PH (STANDARD UNITS)	05/04/78-05/04/78	0	1	
GRSM0217	No	00400	PH (STANDARD UNITS)	05/06/78-05/06/78	0	1	
GRSM0221	Yes	00400	PH (STANDARD UNITS)	09/25/68-09/25/68	0	1	
GRSM0222	Yes	00400	PH (STANDARD UNITS)	01/08/68-03/18/75	7	20	
GRSM0223	Yes	00400	PH (STANDARD UNITS)	09/06/67-08/01/68	0	4	
GRSM0227	No	00400	PH (STANDARD UNITS)	09/25/68-09/25/68	0	1	
GRSM0229	Yes	00400	PH (STANDARD UNITS)	12/13/83-05/15/85	1	7	
GRSM0240	Yes	00400	PH (STANDARD UNITS)	09/24/68-09/24/68	0	1	
GRSM0247	No	00400	PH (STANDARD UNITS)	03/24/73-09/20/73	0	18	
GRSM0248	No	00400	PH (STANDARD UNITS)	04/24/74-03/18/75	0	14	
GRSM0249	No	00400	PH (STANDARD UNITS)	10/17/57-07/25/73	15	101	
GRSM0250	No	00400	PH (STANDARD UNITS)	10/21/75-02/08/77	1	17	
GRSM0251	No	00400	PH (STANDARD UNITS)	10/21/75-09/07/76	0	13	
GRSM0253	No	00400	PH (STANDARD UNITS)	06/05/73-06/08/73	0	4	
GRSM0256	No	00400	PH (STANDARD UNITS)	09/09/71-12/05/94	23	233	T,A
GRSM0257	No	00400	PH (STANDARD UNITS)	03/24/73-09/20/73	0	12	
GRSM0258	No	00400	PH (STANDARD UNITS)	01/07/65-09/06/83	18	11	
GRSM0262	No	00400	PH (STANDARD UNITS)	02/23/77-10/11/78	1	11	
GRSM0264	No	00400	PH (STANDARD UNITS)	06/13/89-10/23/89	0	2	
GRSM0265	No	00400	PH (STANDARD UNITS)	06/28/89-06/28/89	0	3	
GRSM0009	No	00403	PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	14	118	
GRSM0014	Yes	00403	PH, LAB, STANDARD UNITS SU	08/05/87-08/05/87	0	1	
GRSM0017	Yes	00403	PH, LAB, STANDARD UNITS SU	08/05/87-08/05/87	0	1	
GRSM0025	Yes	00403	PH, LAB, STANDARD UNITS SU	08/05/87-08/05/87	0	1	
GRSM0028	Yes	00403	PH, LAB, STANDARD UNITS SU	08/05/87-08/05/87	0	1	
GRSM0033	No	00403	PH, LAB, STANDARD UNITS SU	07/27/88-07/27/88	0	1	
GRSM0037	No	00403	PH, LAB, STANDARD UNITS SU	11/15/79-03/12/81	1	17	
GRSM0039	No	00403	PH, LAB, STANDARD UNITS SU	07/27/88-07/27/88	0	1	
GRSM0041	No	00403	PH, LAB, STANDARD UNITS SU	10/18/82-10/18/82	0	1	
GRSM0043	No	00403	PH, LAB, STANDARD UNITS SU	07/27/88-07/27/88	0	1	
GRSM0046	No	00403	PH, LAB, STANDARD UNITS SU	07/27/88-07/27/88	0	1	
GRSM0050	Yes	00403	PH, LAB, STANDARD UNITS SU	11/20/84-11/20/84	0	1	
GRSM0052	No	00403	PH, LAB, STANDARD UNITS SU	11/20/84-11/20/84	0	1	
GRSM0055	No	00403	PH, LAB, STANDARD UNITS SU	11/15/79-10/22/86	6	83	
GRSM0061	Yes	00403	PH, LAB, STANDARD UNITS SU	10/19/82-10/19/82	0	1	
GRSM0064	Yes	00403	PH, LAB, STANDARD UNITS SU	08/05/87-08/05/87	0	1	
GRSM0067	No	00403	PH, LAB, STANDARD UNITS SU	07/27/88-07/27/88	0	1	
GRSM0071	Yes	00403	PH, LAB, STANDARD UNITS SU	03/25/85-07/11/85	0	4	
GRSM0072	Yes	00403	PH, LAB, STANDARD UNITS SU	12/13/83-06/07/85	1	34	
GRSM0077	No	00403	PH, LAB, STANDARD UNITS SU	10/18/82-10/18/82	0	1	
GRSM0080	No	00403	PH, LAB, STANDARD UNITS SU	11/20/84-11/20/84	0	1	
GRSM0081	Yes	00403	PH, LAB, STANDARD UNITS SU	03/25/85-07/08/85	0	4	
GRSM0086	Yes	00403	PH, LAB, STANDARD UNITS SU	03/20/85-07/03/85	0	4	
GRSM0094	No	00403	PH, LAB, STANDARD UNITS SU	03/26/82-03/26/82	0	1	
GRSM0095	Yes	00403	PH, LAB, STANDARD UNITS SU	07/03/85-07/03/85	0	1	
GRSM0099	No	00403	PH, LAB, STANDARD UNITS SU	04/22/85-07/16/85	0	2	
GRSM0100	Yes	00403	PH, LAB, STANDARD UNITS SU	07/08/85-07/08/85	0	1	
GRSM0106	No	00403	PH, LAB, STANDARD UNITS SU	03/25/85-07/16/85	0	4	
GRSM0108	No	00403	PH, LAB, STANDARD UNITS SU	03/26/82-03/26/82	0	1	
GRSM0110	No	00403	PH, LAB, STANDARD UNITS SU	11/12/81-03/26/82	0	3	
GRSM0111	No	00403	PH, LAB, STANDARD UNITS SU	07/29/82-07/29/82	0	1	
GRSM0112	No	00403	PH, LAB, STANDARD UNITS SU	11/12/81-08/01/82	0	149	
GRSM0115	Yes	00403	PH, LAB, STANDARD UNITS SU	08/11/82-08/11/82	0	1	
GRSM0125	Yes	00403	PH, LAB, STANDARD UNITS SU	10/29/91-10/29/91	0	1	
GRSM0129	Yes	00403	PH, LAB, STANDARD UNITS SU	10/29/91-10/29/91	0	1	
GRSM0132	Yes	00403	PH, LAB, STANDARD UNITS SU	10/31/91-10/31/91	0	1	
GRSM0134	Yes	00403	PH, LAB, STANDARD UNITS SU	03/26/82-03/26/82	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0135	Yes	00403	PH, LAB, STANDARD UNITS SU	10/30/91-10/30/91	0	1	
GRSM0136	Yes	00403	PH, LAB, STANDARD UNITS SU	11/12/81-11/12/81	0	1	
GRSM0137	Yes	00403	PH, LAB, STANDARD UNITS SU	12/02/81-04/22/82	0	3	
GRSM0138	Yes	00403	PH, LAB, STANDARD UNITS SU	11/12/81-03/24/82	0	3	
GRSM0139	Yes	00403	PH, LAB, STANDARD UNITS SU	03/22/82-03/22/82	0	1	
GRSM0140	Yes	00403	PH, LAB, STANDARD UNITS SU	10/30/91-10/30/91	0	1	
GRSM0142	Yes	00403	PH, LAB, STANDARD UNITS SU	12/02/81-12/02/81	0	1	
GRSM0143	Yes	00403	PH, LAB, STANDARD UNITS SU	03/22/82-03/22/82	0	1	
GRSM0145	Yes	00403	PH, LAB, STANDARD UNITS SU	03/22/82-03/22/82	0	1	
GRSM0146	Yes	00403	PH, LAB, STANDARD UNITS SU	03/24/82-03/24/82	0	1	
GRSM0147	Yes	00403	PH, LAB, STANDARD UNITS SU	10/29/91-10/29/91	0	1	
GRSM0148	Yes	00403	PH, LAB, STANDARD UNITS SU	03/24/82-03/24/82	0	1	
GRSM0149	Yes	00403	PH, LAB, STANDARD UNITS SU	10/29/91-10/29/91	0	1	
GRSM0150	Yes	00403	PH, LAB, STANDARD UNITS SU	03/26/82-03/26/82	0	1	
GRSM0152	Yes	00403	PH, LAB, STANDARD UNITS SU	07/10/85-07/10/85	0	1	
GRSM0153	Yes	00403	PH, LAB, STANDARD UNITS SU	10/30/91-10/30/91	0	1	
GRSM0154	Yes	00403	PH, LAB, STANDARD UNITS SU	10/31/91-10/31/91	0	1	
GRSM0156	Yes	00403	PH, LAB, STANDARD UNITS SU	10/31/91-10/31/91	0	1	
GRSM0158	Yes	00403	PH, LAB, STANDARD UNITS SU	10/31/91-10/31/91	0	1	
GRSM0159	Yes	00403	PH, LAB, STANDARD UNITS SU	10/31/91-10/31/91	0	1	
GRSM0160	Yes	00403	PH, LAB, STANDARD UNITS SU	04/20/82-04/20/82	0	1	
GRSM0162	Yes	00403	PH, LAB, STANDARD UNITS SU	10/31/91-10/31/91	0	1	
GRSM0163	Yes	00403	PH, LAB, STANDARD UNITS SU	03/23/82-04/20/82	0	2	
GRSM0165	Yes	00403	PH, LAB, STANDARD UNITS SU	10/31/91-10/31/91	0	1	
GRSM0167	Yes	00403	PH, LAB, STANDARD UNITS SU	04/21/82-04/21/82	0	1	
GRSM0168	Yes	00403	PH, LAB, STANDARD UNITS SU	04/21/82-04/21/82	0	1	
GRSM0170	Yes	00403	PH, LAB, STANDARD UNITS SU	10/29/91-10/29/91	0	1	
GRSM0171	Yes	00403	PH, LAB, STANDARD UNITS SU	04/15/81-07/23/81	0	4	
GRSM0172	Yes	00403	PH, LAB, STANDARD UNITS SU	10/31/91-10/31/91	0	1	
GRSM0173	Yes	00403	PH, LAB, STANDARD UNITS SU	03/25/82-03/25/82	0	1	
GRSM0174	Yes	00403	PH, LAB, STANDARD UNITS SU	10/29/91-10/29/91	0	1	
GRSM0175	Yes	00403	PH, LAB, STANDARD UNITS SU	12/02/81-03/25/82	0	2	
GRSM0176	Yes	00403	PH, LAB, STANDARD UNITS SU	10/30/91-10/30/91	0	1	
GRSM0177	No	00403	PH, LAB, STANDARD UNITS SU	11/20/84-11/20/84	0	1	
GRSM0179	Yes	00403	PH, LAB, STANDARD UNITS SU	10/30/91-10/30/91	0	1	
GRSM0180	Yes	00403	PH, LAB, STANDARD UNITS SU	10/30/91-10/30/91	0	1	
GRSM0182	Yes	00403	PH, LAB, STANDARD UNITS SU	10/17/85-11/22/94	9	38	
GRSM0183	Yes	00403	PH, LAB, STANDARD UNITS SU	10/29/91-10/29/91	0	1	
GRSM0184	Yes	00403	PH, LAB, STANDARD UNITS SU	10/15/80-05/11/93	12	57	
GRSM0185	Yes	00403	PH, LAB, STANDARD UNITS SU	11/28/79-12/05/94	15	99	
GRSM0190	Yes	00403	PH, LAB, STANDARD UNITS SU	03/27/85-07/10/85	0	4	
GRSM0191	No	00403	PH, LAB, STANDARD UNITS SU	11/20/84-11/20/84	0	1	
GRSM0192	Yes	00403	PH, LAB, STANDARD UNITS SU	04/15/81-07/23/81	0	5	
GRSM0194	Yes	00403	PH, LAB, STANDARD UNITS SU	03/25/85-07/08/85	0	4	
GRSM0195	Yes	00403	PH, LAB, STANDARD UNITS SU	07/16/85-07/16/85	0	1	
GRSM0198	No	00403	PH, LAB, STANDARD UNITS SU	08/01/90-08/01/90	0	1	
GRSM0204	No	00403	PH, LAB, STANDARD UNITS SU	08/01/90-08/01/90	0	1	
GRSM0206	Yes	00403	PH, LAB, STANDARD UNITS SU	07/08/85-07/08/85	0	1	
GRSM0208	No	00403	PH, LAB, STANDARD UNITS SU	11/29/84-11/29/84	0	1	
GRSM0211	No	00403	PH, LAB, STANDARD UNITS SU	08/01/90-08/01/90	0	1	
GRSM0213	Yes	00403	PH, LAB, STANDARD UNITS SU	03/28/85-07/16/85	0	4	
GRSM0218	No	00403	PH, LAB, STANDARD UNITS SU	04/15/81-08/13/81	0	5	
GRSM0219	No	00403	PH, LAB, STANDARD UNITS SU	04/15/81-08/13/81	0	5	
GRSM0225	Yes	00403	PH, LAB, STANDARD UNITS SU	04/15/81-08/13/81	0	5	
GRSM0226	Yes	00403	PH, LAB, STANDARD UNITS SU	05/30/81-08/13/81	0	3	
GRSM0228	Yes	00403	PH, LAB, STANDARD UNITS SU	05/06/81-05/06/81	0	1	
GRSM0229	Yes	00403	PH, LAB, STANDARD UNITS SU	12/13/83-06/08/85	1	71	
GRSM0234	No	00403	PH, LAB, STANDARD UNITS SU	04/15/81-08/13/81	0	5	
GRSM0236	No	00403	PH, LAB, STANDARD UNITS SU	04/15/81-08/13/81	0	6	
GRSM0237	Yes	00403	PH, LAB, STANDARD UNITS SU	03/28/85-07/10/85	0	4	
GRSM0239	No	00403	PH, LAB, STANDARD UNITS SU	04/15/81-08/13/81	0	6	
GRSM0244	No	00403	PH, LAB, STANDARD UNITS SU	10/10/67-12/06/68	1	15	
GRSM0255	Yes	00403	PH, LAB, STANDARD UNITS SU	07/07/85-07/07/85	0	1	
GRSM0256	No	00403	PH, LAB, STANDARD UNITS SU	11/28/79-06/26/91	11	95	
GRSM0259	No	00403	PH, LAB, STANDARD UNITS SU	03/24/85-07/07/85	0	4	
GRSM0264	No	00403	PH, LAB, STANDARD UNITS SU	10/20/82-12/14/92	10	79	
GRSM0031	No	00405	CARBON DIOXIDE (MG/L AS CO2)	01/23/73-09/06/73	0	4	
GRSM0091	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	10/23/73-08/08/74	0	2	
GRSM0182	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	04/05/66-10/12/67	1	2	
GRSM0184	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	10/03/72-01/03/83	10	65	
GRSM0186	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	04/23/76-04/23/76	0	1	
GRSM0214	No	00405	CARBON DIOXIDE (MG/L AS CO2)	05/05/78-05/05/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0216	No	00405	CARBON DIOXIDE (MG/L AS CO2)	05/04/78-05/04/78	0	1	
GRSM0217	No	00405	CARBON DIOXIDE (MG/L AS CO2)	05/06/78-05/06/78	0	1	
GRSM0249	No	00405	CARBON DIOXIDE (MG/L AS CO2)	03/28/73-05/16/73	0	2	
GRSM0050	Yes	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	11/20/84-11/20/84	0	1	
GRSM0052	No	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	11/20/84-11/20/84	0	1	
GRSM0071	Yes	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	03/25/85-07/11/85	0	4	
GRSM0080	No	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	11/20/84-11/20/84	0	1	
GRSM0081	Yes	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	03/25/85-07/08/85	0	4	
GRSM0086	Yes	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	03/20/85-07/03/85	0	4	
GRSM0095	Yes	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	07/03/85-07/03/85	0	1	
GRSM0099	No	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	04/22/85-07/16/85	0	2	
GRSM0100	Yes	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	07/08/85-07/08/85	0	1	
GRSM0106	No	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	03/25/85-07/16/85	0	4	
GRSM0152	Yes	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	07/10/85-07/10/85	0	1	
GRSM0177	No	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	11/20/84-11/20/84	0	1	
GRSM0190	Yes	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	03/27/85-07/10/85	0	4	
GRSM0191	No	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	11/20/84-11/20/84	0	1	
GRSM0194	Yes	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	03/25/85-07/08/85	0	4	
GRSM0195	Yes	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	07/16/85-07/16/85	0	1	
GRSM0206	Yes	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	07/08/85-07/08/85	0	1	
GRSM0208	No	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	11/29/84-11/29/84	0	1	
GRSM0213	Yes	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	03/28/85-07/16/85	0	4	
GRSM0237	Yes	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	03/28/85-07/10/85	0	4	
GRSM0255	Yes	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	07/07/85-07/07/85	0	1	
GRSM0259	No	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	03/24/85-07/07/85	0	4	
GRSM0004	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/03/73-10/26/73	0	23	
GRSM0006	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/25/79-09/26/79	0	20	
GRSM0007	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/29/75-07/31/79	4	15	
GRSM0008	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/25/79-09/26/79	0	20	
GRSM0009	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	18	166	A
GRSM0010	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/06/70-05/09/72	1	10	
GRSM0011	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/29/68-07/13/77	8	14	
GRSM0013	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/09/75-07/31/79	4	20	
GRSM0014	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/05/87-08/05/87	0	1	
GRSM0016	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/29/75-07/31/79	4	15	
GRSM0017	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/05/87-08/05/87	0	1	
GRSM0019	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/02/73-10/26/73	0	21	
GRSM0021	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/03/66-01/31/67	0	9	
GRSM0022	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/29/75-07/31/79	4	16	
GRSM0023	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/02/73-10/26/73	0	24	
GRSM0024	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/09/75-07/31/79	4	20	
GRSM0025	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/05/87-08/05/87	0	1	
GRSM0027	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/29/75-07/31/79	4	16	
GRSM0028	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/05/87-08/05/87	0	1	
GRSM0030	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/02/73-10/26/73	0	21	
GRSM0031	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/23/73-09/06/73	0	4	
GRSM0033	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/27/88-07/27/88	0	1	
GRSM0036	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/04/74-01/17/77	2	37	
GRSM0037	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-03/12/81	12	89	
GRSM0039	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/27/88-07/27/88	0	1	
GRSM0041	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/18/82-10/18/82	0	1	
GRSM0043	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/27/88-07/27/88	0	1	
GRSM0046	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/27/88-07/27/88	0	1	
GRSM0048	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/03/74-01/17/77	2	36	
GRSM0054	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/15/77-12/27/78	1	23	
GRSM0055	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-10/22/86	18	153	A
GRSM0056	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/21/68-05/24/72	4	14	
GRSM0057	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/04/66-06/17/80	14	67	
GRSM0059	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-11/27/74	6	7	
GRSM0060	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/02/73-10/26/73	0	29	
GRSM0061	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/19/82-10/19/82	0	1	
GRSM0063	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/29/75-07/31/79	4	16	
GRSM0064	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/05/87-08/05/87	0	1	
GRSM0067	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/27/88-07/27/88	0	1	
GRSM0069	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/25/79-09/26/79	0	20	
GRSM0070	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/29/68-03/24/76	7	16	
GRSM0072	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/13/83-06/07/85	1	34	
GRSM0073	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/29/68-01/29/75	6	15	
GRSM0076	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	0	1	
GRSM0077	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/18/82-10/18/82	0	1	
GRSM0078	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/28/74-01/24/77	2	37	
GRSM0084	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/30/68-03/24/69	0	7	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0085	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/24/75	0	10	
GRSM0087	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/23/67-03/24/69	2	14	
GRSM0088	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/24/75	0	8	
GRSM0091	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/23/73-08/08/74	0	2	
GRSM0094	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/82-03/26/82	0	1	
GRSM0101	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/24/75	0	10	
GRSM0102	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/30/68-03/24/69	0	7	
GRSM0105	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/30/68-03/24/69	0	8	
GRSM0107	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/24/68-09/24/68	0	1	
GRSM0108	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/82-03/26/82	0	1	
GRSM0109	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/24/75	0	10	
GRSM0110	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/12/81-03/26/82	0	3	
GRSM0112	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/12/81-06/21/82	0	96	
GRSM0114	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/15/93-04/13/94	0	6	
GRSM0115	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/11/82-08/11/82	0	1	
GRSM0117	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/15/93-04/13/94	0	6	
GRSM0118	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/16/93-04/13/94	0	5	
GRSM0119	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/15/93-05/03/94	0	5	
GRSM0120	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/24/68-09/24/68	0	1	
GRSM0121	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/15/93-04/13/94	0	7	
GRSM0122	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/15/93-04/13/94	0	6	
GRSM0126	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/27/73-11/13/73	0	12	
GRSM0127	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/16/93-05/03/94	0	2	
GRSM0128	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/15/93-05/03/94	0	8	
GRSM0130	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/24/94-04/13/94	0	3	
GRSM0131	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/15/93-04/13/94	0	6	
GRSM0133	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/16/93-04/13/94	0	6	
GRSM0134	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/82-03/26/82	0	1	
GRSM0136	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/12/81-11/12/81	0	1	
GRSM0137	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/02/81-04/22/82	0	3	
GRSM0138	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/12/81-03/24/82	0	3	
GRSM0139	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/22/82-03/22/82	0	1	
GRSM0142	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/02/81-12/02/81	0	1	
GRSM0143	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/22/82-03/22/82	0	1	
GRSM0144	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	0	1	
GRSM0145	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/24/82-03/24/82	0	1	
GRSM0148	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/24/82-03/24/82	0	1	
GRSM0150	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/82-03/26/82	0	1	
GRSM0160	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/20/82-04/20/82	0	1	
GRSM0161	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	0	1	
GRSM0163	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/23/82-04/20/82	0	2	
GRSM0164	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	0	1	
GRSM0167	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/21/82-04/21/82	0	1	
GRSM0173	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/25/82-03/25/82	0	1	
GRSM0175	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/02/81-03/25/82	0	2	
GRSM0178	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/24/68-09/24/68	0	1	
GRSM0182	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/10/63-06/29/94	30	29	S
GRSM0184	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	25	174	T,S
GRSM0185	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/04/73-06/26/91	17	234	A
GRSM0186	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/23/76-04/23/76	0	1	
GRSM0198	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/01/90-08/01/90	0	1	
GRSM0202	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/08/68-03/18/75	7	19	
GRSM0204	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/01/90-08/01/90	0	1	
GRSM0211	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/01/90-08/01/90	0	1	
GRSM0214	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/05/78-05/05/78	0	1	
GRSM0215	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/11/68-03/18/75	7	16	
GRSM0216	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/04/78-05/04/78	0	1	
GRSM0217	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/06/78-05/06/78	0	1	
GRSM0221	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	0	1	
GRSM0222	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/08/68-03/18/75	7	20	
GRSM0223	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/06/67-08/01/68	0	4	
GRSM0227	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	0	1	
GRSM0229	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/13/83-06/08/85	1	71	
GRSM0240	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/24/68-09/24/68	0	1	
GRSM0244	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/10/67-12/06/68	1	15	
GRSM0247	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/24/73-09/20/73	0	18	
GRSM0248	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/74-03/18/75	0	14	
GRSM0249	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/27/68-06/27/73	5	31	
GRSM0250	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/21/75-02/08/77	1	17	
GRSM0251	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/21/75-09/07/76	0	13	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0253	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/05/73-06/08/73	0	4	
GRSM0256	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/71-06/26/91	19	202	A
GRSM0257	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/24/73-09/20/73	0	12	
GRSM0258	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/07/65-10/26/65	0	8	
GRSM0261	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/02/64-08/22/67	3	40	
GRSM0262	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/23/77-10/11/78	1	11	
GRSM0006	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/25/79-09/26/79	0	19	
GRSM0007	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/75-07/31/79	4	16	
GRSM0008	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/25/79-09/26/79	0	20	
GRSM0009	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/13/74-01/11/90	15	52	
GRSM0011	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/68-07/13/77	8	12	
GRSM0013	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/09/75-07/31/79	4	17	
GRSM0016	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/75-07/31/79	4	15	
GRSM0021	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/03/66-01/31/67	0	9	
GRSM0022	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/75-07/31/79	4	14	
GRSM0024	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/09/75-07/31/79	4	17	
GRSM0027	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/75-07/31/79	4	15	
GRSM0036	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/04/74-01/17/77	2	37	
GRSM0037	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-09/08/80	12	71	
GRSM0048	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/03/74-01/17/77	2	36	
GRSM0054	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/15/77-12/27/78	1	23	
GRSM0055	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-09/08/80	12	67	
GRSM0057	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/04/66-06/17/80	14	67	
GRSM0059	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-11/27/74	6	7	
GRSM0063	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/75-07/31/79	4	14	
GRSM0069	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/25/79-09/26/79	0	20	
GRSM0070	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/68-03/24/76	7	14	
GRSM0073	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/68-01/29/75	6	13	
GRSM0078	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	01/28/74-01/24/77	2	37	
GRSM0084	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/30/68-03/24/69	0	7	
GRSM0085	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/13/74-01/29/75	0	5	
GRSM0087	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	01/23/67-03/24/69	2	15	
GRSM0088	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/13/74-09/16/74	0	4	
GRSM0094	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/26/82-03/26/82	0	1	
GRSM0101	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/13/74-01/29/75	0	5	
GRSM0102	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/30/68-03/24/69	0	7	
GRSM0105	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/30/68-03/24/69	0	8	
GRSM0108	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/26/82-03/26/82	0	1	
GRSM0109	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/13/74-01/29/75	0	5	
GRSM0110	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	11/12/81-03/26/82	0	3	
GRSM0112	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	11/12/81-06/21/82	0	96	
GRSM0115	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/11/82-08/11/82	0	1	
GRSM0134	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/26/82-03/26/82	0	1	
GRSM0136	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	11/12/81-11/12/81	0	1	
GRSM0137	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	12/02/81-04/22/82	0	3	
GRSM0138	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	11/12/81-03/24/82	0	3	
GRSM0139	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/22/82-03/22/82	0	1	
GRSM0142	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	12/02/81-12/02/81	0	1	
GRSM0143	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/22/82-03/22/82	0	1	
GRSM0145	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/24/82-03/24/82	0	1	
GRSM0148	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/24/82-03/24/82	0	1	
GRSM0150	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/26/82-03/26/82	0	1	
GRSM0160	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/20/82-04/20/82	0	1	
GRSM0163	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/23/82-04/20/82	0	2	
GRSM0167	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/21/82-04/21/82	0	1	
GRSM0173	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/25/82-03/25/82	0	1	
GRSM0175	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	12/02/81-03/25/82	0	2	
GRSM0185	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/04/73-08/20/80	6	100	
GRSM0202	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	01/08/68-03/18/75	7	19	
GRSM0215	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/11/68-03/18/75	7	16	
GRSM0222	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	01/08/68-03/18/75	7	20	
GRSM0244	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	10/10/67-12/06/68	1	15	
GRSM0248	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/24/74-03/18/75	0	14	
GRSM0250	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	10/21/75-02/08/77	1	17	
GRSM0256	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/09/71-08/31/87	15	91	
GRSM0258	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	01/07/65-10/26/65	0	8	
GRSM0261	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/02/64-08/22/67	3	40	
GRSM0262	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/23/77-10/11/78	1	11	
GRSM0184	Yes	00418	ALKALINITY,CARBONATE,INCREMENTAL TIT.USGS LAB MG/L	12/02/91-05/11/93	1	6	
GRSM0184	Yes	00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	11/17/86-09/14/87	0	4	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0009	No	00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	08/28/80-09/08/80	0	2	
GRSM0037	No	00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	09/08/80-12/11/80	0	2	
GRSM0055	No	00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	09/08/80-12/11/80	0	2	
GRSM0185	Yes	00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	08/20/80-08/20/80	0	1	
GRSM0009	No	00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	13	132	
GRSM0037	No	00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-03/12/81	0	5	
GRSM0041	No	00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	10/18/82-10/18/82	0	1	
GRSM0055	No	00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/22/86	6	68	
GRSM0061	Yes	00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	10/19/82-10/19/82	0	1	
GRSM0077	No	00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	10/18/82-10/18/82	0	1	
GRSM0185	Yes	00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	13	106	
GRSM0256	No	00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	13	106	
GRSM0014	Yes	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/05/87-08/05/87	0	1	
GRSM0017	Yes	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/05/87-08/05/87	0	1	
GRSM0025	Yes	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/05/87-08/05/87	0	1	
GRSM0028	Yes	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/05/87-08/05/87	0	1	
GRSM0033	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	07/27/88-07/27/88	0	1	
GRSM0039	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	07/27/88-07/27/88	0	1	
GRSM0041	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	10/18/82-10/18/82	0	1	
GRSM0043	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	07/27/88-07/27/88	0	1	
GRSM0046	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	07/27/88-07/27/88	0	1	
GRSM0055	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/04/70-08/04/70	0	1	
GRSM0059	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	10/15/69-10/15/69	0	1	
GRSM0061	Yes	00435	ACIDITY, TOTAL (MG/L AS CACO3)	10/19/82-10/19/82	0	1	
GRSM0064	Yes	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/05/87-08/05/87	0	1	
GRSM0067	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	07/27/88-07/27/88	0	1	
GRSM0077	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	10/18/82-10/18/82	0	1	
GRSM0110	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	11/12/81-12/02/81	0	2	
GRSM0112	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	11/12/81-12/02/81	0	2	
GRSM0136	Yes	00435	ACIDITY, TOTAL (MG/L AS CACO3)	11/12/81-11/12/81	0	1	
GRSM0137	Yes	00435	ACIDITY, TOTAL (MG/L AS CACO3)	12/02/81-12/02/81	0	1	
GRSM0138	Yes	00435	ACIDITY, TOTAL (MG/L AS CACO3)	11/12/81-12/02/81	0	2	
GRSM0142	Yes	00435	ACIDITY, TOTAL (MG/L AS CACO3)	12/02/81-12/02/81	0	1	
GRSM0175	Yes	00435	ACIDITY, TOTAL (MG/L AS CACO3)	12/02/81-12/02/81	0	1	
GRSM0185	Yes	00435	ACIDITY, TOTAL (MG/L AS CACO3)	09/17/73-10/04/73	0	2	
GRSM0253	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/05/73-06/08/73	0	4	
GRSM0055	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	08/04/70-08/04/70	0	1	
GRSM0059	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	10/15/69-10/15/69	0	1	
GRSM0185	Yes	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	09/17/73-07/11/91	17	3	
GRSM0256	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	06/10/74-08/20/80	6	2	
GRSM0244	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	10/10/67-12/06/68	1	15	
GRSM0010	No	00440	BICARBONATE ION (MG/L AS HCO3)	10/19/56-05/09/72	15	72	
GRSM0031	No	00440	BICARBONATE ION (MG/L AS HCO3)	01/23/73-09/06/73	0	4	
GRSM0056	No	00440	BICARBONATE ION (MG/L AS HCO3)	05/21/68-05/24/72	4	11	
GRSM0071	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	03/25/85-07/11/85	0	4	
GRSM0074	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	11/06/56-04/13/62	5	8	
GRSM0076	No	00440	BICARBONATE ION (MG/L AS HCO3)	09/25/68-09/25/68	0	1	
GRSM0081	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	03/25/85-07/08/85	0	4	
GRSM0086	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	03/20/85-07/03/85	0	4	
GRSM0091	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/23/73-08/08/74	0	2	
GRSM0095	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	07/03/85-07/03/85	0	1	
GRSM0099	No	00440	BICARBONATE ION (MG/L AS HCO3)	04/22/85-07/16/85	0	2	
GRSM0100	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	07/08/85-07/08/85	0	1	
GRSM0106	No	00440	BICARBONATE ION (MG/L AS HCO3)	03/25/85-07/16/85	0	4	
GRSM0107	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	09/24/68-09/24/68	0	1	
GRSM0120	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	09/24/68-09/24/68	0	1	
GRSM0144	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	09/25/68-09/25/68	0	1	
GRSM0152	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	07/10/85-07/10/85	0	1	
GRSM0161	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	09/25/68-09/25/68	0	1	
GRSM0164	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	09/25/68-09/25/68	0	1	
GRSM0178	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	09/24/68-09/24/68	0	1	
GRSM0182	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	08/10/63-09/30/68	5	20	
GRSM0184	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/18/62-12/07/88	26	105	S
GRSM0186	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	04/23/76-04/23/76	0	1	
GRSM0190	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	03/27/85-07/10/85	0	4	
GRSM0194	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	03/25/85-07/08/85	0	4	
GRSM0195	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	07/16/85-07/16/85	0	1	
GRSM0206	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	07/08/85-07/08/85	0	1	
GRSM0213	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	03/28/85-07/16/85	0	4	
GRSM0214	No	00440	BICARBONATE ION (MG/L AS HCO3)	05/05/78-05/05/78	0	1	
GRSM0216	No	00440	BICARBONATE ION (MG/L AS HCO3)	05/04/78-05/04/78	0	1	
GRSM0217	No	00440	BICARBONATE ION (MG/L AS HCO3)	05/06/78-05/06/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0221	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	09/25/68-09/25/68	0	1	
GRSM0223	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	09/06/67-08/01/68	0	4	
GRSM0227	No	00440	BICARBONATE ION (MG/L AS HCO3)	09/25/68-09/25/68	0	1	
GRSM0237	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	03/28/85-07/10/85	0	4	
GRSM0240	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	09/24/68-09/24/68	0	1	
GRSM0249	No	00440	BICARBONATE ION (MG/L AS HCO3)	10/17/57-06/27/73	15	79	
GRSM0255	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	07/07/85-07/07/85	0	1	
GRSM0259	No	00440	BICARBONATE ION (MG/L AS HCO3)	03/24/85-07/07/85	0	4	
GRSM0010	No	00445	CARBONATE ION (MG/L AS CO3)	11/06/70-05/09/72	1	10	
GRSM0031	No	00445	CARBONATE ION (MG/L AS CO3)	01/23/73-05/10/73	0	3	
GRSM0056	No	00445	CARBONATE ION (MG/L AS CO3)	05/21/68-05/24/72	4	11	
GRSM0076	No	00445	CARBONATE ION (MG/L AS CO3)	09/25/68-09/25/68	0	1	
GRSM0091	Yes	00445	CARBONATE ION (MG/L AS CO3)	10/23/73-10/23/73	0	1	
GRSM0107	Yes	00445	CARBONATE ION (MG/L AS CO3)	09/24/68-09/24/68	0	1	
GRSM0120	Yes	00445	CARBONATE ION (MG/L AS CO3)	09/24/68-09/24/68	0	1	
GRSM0144	Yes	00445	CARBONATE ION (MG/L AS CO3)	09/25/68-09/25/68	0	1	
GRSM0161	Yes	00445	CARBONATE ION (MG/L AS CO3)	09/25/68-09/25/68	0	1	
GRSM0164	Yes	00445	CARBONATE ION (MG/L AS CO3)	09/25/68-09/25/68	0	1	
GRSM0178	Yes	00445	CARBONATE ION (MG/L AS CO3)	09/24/68-09/24/68	0	1	
GRSM0182	Yes	00445	CARBONATE ION (MG/L AS CO3)	08/10/63-09/30/68	5	21	
GRSM0184	Yes	00445	CARBONATE ION (MG/L AS CO3)	11/01/67-01/03/83	15	71	
GRSM0214	No	00445	CARBONATE ION (MG/L AS CO3)	05/05/78-05/05/78	0	1	
GRSM0216	No	00445	CARBONATE ION (MG/L AS CO3)	05/04/78-05/04/78	0	1	
GRSM0217	No	00445	CARBONATE ION (MG/L AS CO3)	05/06/78-05/06/78	0	1	
GRSM0221	Yes	00445	CARBONATE ION (MG/L AS CO3)	09/25/68-09/25/68	0	1	
GRSM0227	No	00445	CARBONATE ION (MG/L AS CO3)	09/25/68-09/25/68	0	1	
GRSM0240	Yes	00445	CARBONATE ION (MG/L AS CO3)	09/24/68-09/24/68	0	1	
GRSM0249	No	00445	CARBONATE ION (MG/L AS CO3)	06/27/68-05/16/73	4	16	
GRSM0184	Yes	00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	11/17/86-09/14/87	0	4	
GRSM0182	Yes	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/27/92-11/22/94	2	12	
GRSM0182	Yes	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	12/11/91-11/22/94	2	16	
GRSM0184	Yes	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	12/07/87-05/11/93	5	23	
GRSM0009	No	00480	SALINITY - PARTS PER THOUSAND	12/21/89-12/21/89	0	2	
GRSM0007	No	00500	RESIDUE, TOTAL (MG/L)	07/31/78-07/31/78	0	1	
GRSM0009	No	00500	RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	18	181	A
GRSM0011	No	00500	RESIDUE, TOTAL (MG/L)	05/14/69-07/28/71	2	5	
GRSM0013	Yes	00500	RESIDUE, TOTAL (MG/L)	07/31/78-08/29/94	16	5	
GRSM0016	Yes	00500	RESIDUE, TOTAL (MG/L)	07/31/78-08/29/94	16	5	
GRSM0021	Yes	00500	RESIDUE, TOTAL (MG/L)	05/03/66-01/31/67	0	9	
GRSM0022	No	00500	RESIDUE, TOTAL (MG/L)	07/31/78-07/31/78	0	1	
GRSM0024	Yes	00500	RESIDUE, TOTAL (MG/L)	07/31/78-08/29/94	16	5	
GRSM0027	Yes	00500	RESIDUE, TOTAL (MG/L)	07/31/78-08/29/94	16	5	
GRSM0032	No	00500	RESIDUE, TOTAL (MG/L)	07/27/88-08/10/94	6	2	
GRSM0037	No	00500	RESIDUE, TOTAL (MG/L)	05/15/69-03/12/81	11	25	
GRSM0038	No	00500	RESIDUE, TOTAL (MG/L)	07/27/88-08/10/94	6	2	
GRSM0042	No	00500	RESIDUE, TOTAL (MG/L)	07/27/88-08/10/94	6	2	
GRSM0045	No	00500	RESIDUE, TOTAL (MG/L)	07/27/88-08/10/94	6	2	
GRSM0055	No	00500	RESIDUE, TOTAL (MG/L)	02/15/77-10/22/86	9	91	
GRSM0056	No	00500	RESIDUE, TOTAL (MG/L)	09/21/70-09/21/70	0	1	
GRSM0057	No	00500	RESIDUE, TOTAL (MG/L)	10/24/66-01/30/67	0	3	
GRSM0063	Yes	00500	RESIDUE, TOTAL (MG/L)	08/05/87-08/29/94	7	2	
GRSM0066	No	00500	RESIDUE, TOTAL (MG/L)	07/27/88-08/10/94	6	2	
GRSM0070	No	00500	RESIDUE, TOTAL (MG/L)	09/16/74-03/24/76	1	3	
GRSM0073	No	00500	RESIDUE, TOTAL (MG/L)	09/16/74-01/29/75	0	2	
GRSM0084	Yes	00500	RESIDUE, TOTAL (MG/L)	04/30/68-03/24/69	0	7	
GRSM0085	Yes	00500	RESIDUE, TOTAL (MG/L)	08/13/74-02/24/75	0	8	
GRSM0087	No	00500	RESIDUE, TOTAL (MG/L)	02/12/67-03/24/69	2	13	
GRSM0088	Yes	00500	RESIDUE, TOTAL (MG/L)	08/13/74-02/24/75	0	8	
GRSM0101	No	00500	RESIDUE, TOTAL (MG/L)	08/13/74-02/24/75	0	8	
GRSM0102	Yes	00500	RESIDUE, TOTAL (MG/L)	04/30/68-03/24/69	0	7	
GRSM0105	No	00500	RESIDUE, TOTAL (MG/L)	04/30/68-03/24/69	0	8	
GRSM0109	Yes	00500	RESIDUE, TOTAL (MG/L)	08/13/74-02/24/75	0	8	
GRSM0151	Yes	00500	RESIDUE, TOTAL (MG/L)	07/10/79-10/24/79	0	2	
GRSM0155	Yes	00500	RESIDUE, TOTAL (MG/L)	07/10/79-10/24/79	0	2	
GRSM0157	Yes	00500	RESIDUE, TOTAL (MG/L)	07/10/79-10/24/79	0	2	
GRSM0185	Yes	00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	15	144	
GRSM0189	Yes	00500	RESIDUE, TOTAL (MG/L)	07/10/79-10/24/79	0	2	
GRSM0197	No	00500	RESIDUE, TOTAL (MG/L)	08/01/90-07/28/92	1	2	
GRSM0202	Yes	00500	RESIDUE, TOTAL (MG/L)	01/08/68-07/29/68	0	5	
GRSM0203	No	00500	RESIDUE, TOTAL (MG/L)	08/01/90-07/28/92	1	2	
GRSM0210	No	00500	RESIDUE, TOTAL (MG/L)	08/01/90-07/28/92	1	2	
GRSM0222	Yes	00500	RESIDUE, TOTAL (MG/L)	01/08/68-07/29/68	0	5	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0244	No	00500	RESIDUE, TOTAL (MG/L)	10/10/67-12/06/68	1	15	
GRSM0249	No	00500	RESIDUE, TOTAL (MG/L)	10/29/70-10/29/70	0	1	
GRSM0253	No	00500	RESIDUE, TOTAL (MG/L)	06/05/73-06/08/73	0	4	
GRSM0256	No	00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	15	142	
GRSM0258	No	00500	RESIDUE, TOTAL (MG/L)	01/07/65-10/26/65	0	8	
GRSM0264	No	00500	RESIDUE, TOTAL (MG/L)	10/20/82-04/12/88	5	53	
GRSM0009	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/13/74-04/21/76	1	15	
GRSM0013	Yes	00505	RESIDUE, TOTAL VOLATILE (MG/L)	06/17/80-08/04/82	2	2	
GRSM0016	Yes	00505	RESIDUE, TOTAL VOLATILE (MG/L)	06/17/80-08/04/82	2	2	
GRSM0024	Yes	00505	RESIDUE, TOTAL VOLATILE (MG/L)	06/17/80-08/04/82	2	2	
GRSM0027	Yes	00505	RESIDUE, TOTAL VOLATILE (MG/L)	06/17/80-08/04/82	2	2	
GRSM0037	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	06/25/73-06/25/73	0	1	
GRSM0055	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	10/31/80-01/16/85	4	48	
GRSM0070	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	09/16/74-03/24/76	1	2	
GRSM0073	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	09/16/74-01/29/75	0	2	
GRSM0085	Yes	00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/13/74-02/24/75	0	8	
GRSM0088	Yes	00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/13/74-02/24/75	0	8	
GRSM0101	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/13/74-02/24/75	0	8	
GRSM0109	Yes	00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/13/74-02/24/75	0	8	
GRSM0151	Yes	00505	RESIDUE, TOTAL VOLATILE (MG/L)	07/10/79-10/24/79	0	2	
GRSM0155	Yes	00505	RESIDUE, TOTAL VOLATILE (MG/L)	07/10/79-10/24/79	0	2	
GRSM0157	Yes	00505	RESIDUE, TOTAL VOLATILE (MG/L)	07/10/79-10/24/79	0	2	
GRSM0185	Yes	00505	RESIDUE, TOTAL VOLATILE (MG/L)	07/10/79-03/27/85	5	56	
GRSM0189	Yes	00505	RESIDUE, TOTAL VOLATILE (MG/L)	07/10/79-10/24/79	0	2	
GRSM0256	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/06/80-01/25/85	4	53	
GRSM0009	No	00510	RESIDUE, TOTAL FIXED (MG/L)	08/13/74-04/21/76	1	15	
GRSM0013	Yes	00510	RESIDUE, TOTAL FIXED (MG/L)	06/17/80-08/04/82	2	2	
GRSM0016	Yes	00510	RESIDUE, TOTAL FIXED (MG/L)	06/17/80-08/04/82	2	2	
GRSM0024	Yes	00510	RESIDUE, TOTAL FIXED (MG/L)	06/17/80-08/04/82	2	2	
GRSM0027	Yes	00510	RESIDUE, TOTAL FIXED (MG/L)	06/17/80-08/04/82	2	2	
GRSM0037	No	00510	RESIDUE, TOTAL FIXED (MG/L)	06/25/73-06/25/73	0	1	
GRSM0055	No	00510	RESIDUE, TOTAL FIXED (MG/L)	10/31/80-01/16/85	4	48	
GRSM0070	No	00510	RESIDUE, TOTAL FIXED (MG/L)	09/16/74-03/24/76	1	2	
GRSM0073	No	00510	RESIDUE, TOTAL FIXED (MG/L)	09/16/74-01/29/75	0	2	
GRSM0085	Yes	00510	RESIDUE, TOTAL FIXED (MG/L)	08/13/74-02/24/75	0	8	
GRSM0088	Yes	00510	RESIDUE, TOTAL FIXED (MG/L)	08/13/74-02/24/75	0	8	
GRSM0101	No	00510	RESIDUE, TOTAL FIXED (MG/L)	08/13/74-02/24/75	0	8	
GRSM0109	Yes	00510	RESIDUE, TOTAL FIXED (MG/L)	08/13/74-02/24/75	0	8	
GRSM0151	Yes	00510	RESIDUE, TOTAL FIXED (MG/L)	07/10/79-10/24/79	0	2	
GRSM0155	Yes	00510	RESIDUE, TOTAL FIXED (MG/L)	07/10/79-10/24/79	0	2	
GRSM0157	Yes	00510	RESIDUE, TOTAL FIXED (MG/L)	07/10/79-10/24/79	0	2	
GRSM0185	Yes	00510	RESIDUE, TOTAL FIXED (MG/L)	07/10/79-03/27/85	5	56	
GRSM0189	Yes	00510	RESIDUE, TOTAL FIXED (MG/L)	07/10/79-10/24/79	0	2	
GRSM0256	No	00510	RESIDUE, TOTAL FIXED (MG/L)	08/06/80-01/25/85	4	53	
GRSM0007	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/29/75-07/29/75	0	1	
GRSM0011	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/25/73-12/10/74	1	4	
GRSM0013	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/09/75-07/29/75	0	2	
GRSM0016	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/29/75-07/29/75	0	1	
GRSM0021	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/03/66-01/31/67	0	9	
GRSM0022	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/29/75-07/29/75	0	1	
GRSM0024	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/09/75-07/29/75	0	2	
GRSM0027	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/29/75-07/29/75	0	1	
GRSM0037	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/25/73-11/21/74	1	2	
GRSM0055	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/25/73-11/21/74	1	2	
GRSM0057	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/24/66-01/30/67	0	3	
GRSM0059	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/25/73-11/27/74	1	2	
GRSM0063	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/29/75-07/29/75	0	1	
GRSM0070	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/21/73-01/29/75	1	4	
GRSM0073	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/21/73-01/29/75	1	4	
GRSM0084	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/30/68-03/24/69	0	7	
GRSM0087	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	02/12/67-03/24/69	2	9	
GRSM0102	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/30/68-03/24/69	0	7	
GRSM0105	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/30/68-03/24/69	0	8	
GRSM0182	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/12/67-10/25/68	1	3	
GRSM0184	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/03/67-10/19/76	9	8	
GRSM0202	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	01/08/68-07/29/68	0	5	
GRSM0222	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	01/08/68-07/29/68	0	5	
GRSM0244	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/10/67-12/06/68	1	15	
GRSM0253	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/05/73-06/08/73	0	4	
GRSM0258	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	01/07/65-11/03/71	6	9	
GRSM0264	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/20/82-12/14/92	10	75	
GRSM0007	No	00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	1	2	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0011	No	00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	12/08/70-12/08/70	0	1	
GRSM0013	Yes	00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	1	2	
GRSM0016	Yes	00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	1	2	
GRSM0022	No	00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	1	2	
GRSM0024	Yes	00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	1	2	
GRSM0027	Yes	00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	1	2	
GRSM0037	No	00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	12/08/70-12/08/70	0	1	
GRSM0055	No	00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	08/04/70-06/25/73	2	6	
GRSM0063	Yes	00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	1	2	
GRSM0070	No	00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	12/08/70-12/08/70	0	1	
GRSM0073	No	00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	12/08/70-12/08/70	0	1	
GRSM0011	No	00525	RESIDUE, FIXED FILTRABLE (MG/L)	07/29/68-12/10/74	6	13	
GRSM0070	No	00525	RESIDUE, FIXED FILTRABLE (MG/L)	06/21/73-06/21/73	0	1	
GRSM0073	No	00525	RESIDUE, FIXED FILTRABLE (MG/L)	06/21/73-06/21/73	0	1	
GRSM0006	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/25/79-09/26/79	0	12	
GRSM0007	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/31/78-07/31/78	0	1	
GRSM0008	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/25/79-09/26/79	0	12	
GRSM0009	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	20	196	T,A
GRSM0011	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/29/68-07/28/71	2	5	
GRSM0013	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/31/78-08/29/94	16	5	
GRSM0016	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/31/78-08/29/94	16	5	
GRSM0022	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/31/78-07/31/78	0	1	
GRSM0024	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/31/78-08/29/94	16	5	
GRSM0027	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/31/78-08/29/94	16	5	
GRSM0032	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/27/88-08/10/94	6	2	
GRSM0036	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/04/74-01/17/77	2	37	
GRSM0037	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/20/68-03/12/81	12	22	
GRSM0038	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/27/88-08/10/94	6	2	
GRSM0042	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/27/88-08/10/94	6	2	
GRSM0045	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/27/88-08/10/94	6	2	
GRSM0048	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/03/74-01/17/77	2	36	
GRSM0054	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/15/77-10/24/78	1	8	
GRSM0055	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/15/77-10/22/86	9	92	
GRSM0057	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/28/74-06/17/80	6	55	
GRSM0063	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/05/87-08/29/94	7	2	
GRSM0066	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/27/88-08/10/94	6	2	
GRSM0069	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/25/79-09/26/79	0	12	
GRSM0070	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/16/74-03/24/76	1	2	
GRSM0073	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/16/74-01/29/75	0	2	
GRSM0078	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/28/74-01/24/77	2	37	
GRSM0085	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-02/24/75	0	8	
GRSM0088	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-02/24/75	0	7	
GRSM0094	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/26/82-03/26/82	0	1	
GRSM0101	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-02/24/75	0	8	
GRSM0108	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/26/82-03/26/82	0	1	
GRSM0109	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-02/24/75	0	8	
GRSM0110	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/12/81-03/26/82	0	3	
GRSM0112	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/12/81-06/21/82	0	96	
GRSM0114	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/15/93-04/13/94	0	6	
GRSM0117	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/15/93-04/13/94	0	6	
GRSM0118	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/15/93-03/16/94	0	5	
GRSM0119	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/15/93-05/03/94	0	5	
GRSM0121	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/15/93-03/16/94	0	6	
GRSM0122	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/15/93-04/13/94	0	6	
GRSM0127	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/15/93-05/03/94	0	8	
GRSM0128	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/17/93-05/03/94	0	7	
GRSM0130	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/24/94-04/13/94	0	3	
GRSM0131	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/17/93-04/13/94	0	5	
GRSM0133	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/16/93-04/13/94	0	6	
GRSM0134	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/26/82-03/26/82	0	1	
GRSM0136	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/12/81-11/12/81	0	1	
GRSM0137	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/02/81-04/22/82	0	3	
GRSM0138	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/12/81-03/24/82	0	3	
GRSM0139	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/22/82-03/22/82	0	1	
GRSM0142	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/02/81-12/02/81	0	1	
GRSM0143	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/22/82-03/22/82	0	1	
GRSM0145	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/24/82-03/24/82	0	1	
GRSM0148	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/24/82-03/24/82	0	1	
GRSM0150	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/26/82-03/26/82	0	1	
GRSM0151	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/11/79-10/24/79	0	3	
GRSM0155	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/11/79-10/24/79	0	3	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0157	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/11/79-10/24/79	0	3	
GRSM0160	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/20/82-04/20/82	0	1	
GRSM0163	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/23/82-04/20/82	0	2	
GRSM0167	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/21/82-04/21/82	0	1	
GRSM0173	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/25/82-03/25/82	0	1	
GRSM0175	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/02/81-03/25/82	0	2	
GRSM0182	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/12/67-10/25/68	1	3	
GRSM0184	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/03/67-10/19/76	9	12	
GRSM0185	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	18	181	A
GRSM0189	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/11/79-10/24/79	0	3	
GRSM0197	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/01/90-07/28/92	1	2	
GRSM0202	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/24/74-03/18/75	0	13	
GRSM0203	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/01/90-07/28/92	1	2	
GRSM0210	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/01/90-07/28/92	1	2	
GRSM0215	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/24/74-03/18/75	0	14	
GRSM0222	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/24/74-03/18/75	0	14	
GRSM0244	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/10/67-12/06/68	1	15	
GRSM0248	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/24/74-03/18/75	0	14	
GRSM0249	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/21/70-08/29/72	2	2	
GRSM0250	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/21/75-02/08/77	1	17	
GRSM0251	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/21/75-09/07/76	0	13	
GRSM0253	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/05/73-06/08/73	0	4	
GRSM0256	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	18	178	A
GRSM0258	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/03/71-11/03/71	0	1	
GRSM0262	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/23/77-10/11/78	1	8	
GRSM0264	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/20/82-12/14/92	10	79	
GRSM0009	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/13/74-04/21/76	1	14	
GRSM0013	Yes	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/17/80-08/04/82	2	2	
GRSM0016	Yes	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/17/80-08/04/82	2	2	
GRSM0024	Yes	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/17/80-08/04/82	2	2	
GRSM0027	Yes	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/17/80-08/04/82	2	2	
GRSM0037	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/25/73-06/25/73	0	1	
GRSM0055	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	10/31/80-01/16/85	4	48	
GRSM0070	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	09/16/74-03/24/76	1	2	
GRSM0073	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	09/16/74-01/29/75	0	2	
GRSM0085	Yes	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/13/74-02/24/75	0	8	
GRSM0088	Yes	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/13/74-02/24/75	0	7	
GRSM0101	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/13/74-02/24/75	0	8	
GRSM0109	Yes	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/13/74-02/24/75	0	8	
GRSM0151	Yes	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/10/79-10/24/79	0	2	
GRSM0155	Yes	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/10/79-10/24/79	0	2	
GRSM0157	Yes	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/10/79-10/24/79	0	2	
GRSM0185	Yes	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/10/79-03/27/85	5	56	
GRSM0189	Yes	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/10/79-10/24/79	0	2	
GRSM0256	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/06/80-01/25/85	4	53	
GRSM0009	No	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	08/13/74-04/21/76	1	14	
GRSM0013	Yes	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/17/80-08/04/82	2	2	
GRSM0016	Yes	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/17/80-08/04/82	2	2	
GRSM0024	Yes	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/17/80-08/04/82	2	2	
GRSM0027	Yes	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/17/80-08/04/82	2	2	
GRSM0037	No	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/25/73-06/25/73	0	1	
GRSM0055	No	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	10/31/80-01/16/85	4	48	
GRSM0070	No	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	09/16/74-03/24/76	1	2	
GRSM0073	No	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	09/16/74-01/29/75	0	2	
GRSM0085	Yes	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	08/13/74-02/24/75	0	7	
GRSM0088	Yes	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	08/13/74-02/24/75	0	7	
GRSM0101	No	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	08/13/74-02/24/75	0	7	
GRSM0109	Yes	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	08/13/74-02/24/75	0	7	
GRSM0151	Yes	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	07/10/79-10/24/79	0	2	
GRSM0155	Yes	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	07/10/79-10/24/79	0	2	
GRSM0157	Yes	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	07/10/79-10/24/79	0	2	
GRSM0185	Yes	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	07/10/79-03/27/85	5	56	
GRSM0189	Yes	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	07/10/79-10/24/79	0	2	
GRSM0256	No	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	08/06/80-01/25/85	4	53	
GRSM0037	No	00546	RESIDUE, SETTLEABLE (MG/L)	06/25/73-06/25/73	0	1	
GRSM0157	Yes	00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	11/02/78-11/27/78	0	2	
GRSM0184	Yes	00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	12/19/73-03/21/79	5	9	
GRSM0185	Yes	00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	11/27/78-08/06/80	1	5	
GRSM0189	Yes	00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	11/27/78-11/27/78	0	2	
GRSM0256	No	00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	08/06/80-06/23/81	0	4	
GRSM0157	Yes	00573	BIOMASS, PERIPHYTON,DRY WEIGHT TOTAL (G/M2)	11/02/78-11/27/78	0	2	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0184	Yes	00573	BIOMASS, PERIPHYTON,DRY WEIGHT TOTAL (G/M2)	12/19/73-03/21/79	5	9	
GRSM0185	Yes	00573	BIOMASS, PERIPHYTON,DRY WEIGHT TOTAL (G/M2)	11/27/78-08/06/80	1	5	
GRSM0189	Yes	00573	BIOMASS, PERIPHYTON,DRY WEIGHT TOTAL (G/M2)	11/27/78-11/27/78	0	2	
GRSM0256	No	00573	BIOMASS, PERIPHYTON,DRY WEIGHT TOTAL (G/M2)	08/06/80-06/23/81	0	4	
GRSM0007	No	00600	NITROGEN, TOTAL (MG/L AS N)	07/29/75-07/29/75	0	1	
GRSM0011	No	00600	NITROGEN, TOTAL (MG/L AS N)	06/25/73-12/10/74	1	2	
GRSM0013	Yes	00600	NITROGEN, TOTAL (MG/L AS N)	07/09/75-07/29/75	0	2	
GRSM0016	Yes	00600	NITROGEN, TOTAL (MG/L AS N)	07/29/75-07/29/75	0	1	
GRSM0022	No	00600	NITROGEN, TOTAL (MG/L AS N)	07/29/75-07/29/75	0	1	
GRSM0024	Yes	00600	NITROGEN, TOTAL (MG/L AS N)	07/09/75-07/29/75	0	2	
GRSM0027	Yes	00600	NITROGEN, TOTAL (MG/L AS N)	07/29/75-07/29/75	0	1	
GRSM0037	No	00600	NITROGEN, TOTAL (MG/L AS N)	06/25/73-11/21/74	1	2	
GRSM0055	No	00600	NITROGEN, TOTAL (MG/L AS N)	06/25/73-11/21/74	1	2	
GRSM0059	No	00600	NITROGEN, TOTAL (MG/L AS N)	06/25/73-11/27/74	1	2	
GRSM0063	Yes	00600	NITROGEN, TOTAL (MG/L AS N)	07/29/75-07/29/75	0	1	
GRSM0070	No	00600	NITROGEN, TOTAL (MG/L AS N)	06/21/73-01/29/75	1	4	
GRSM0073	No	00600	NITROGEN, TOTAL (MG/L AS N)	06/21/73-01/29/75	1	4	
GRSM0091	Yes	00600	NITROGEN, TOTAL (MG/L AS N)	10/03/77-03/10/78	0	2	
GRSM0184	Yes	00600	NITROGEN, TOTAL (MG/L AS N)	10/11/73-09/08/82	8	42	
GRSM0184	Yes	00602	NITROGEN, DISSOLVED (MG/L AS N)	01/30/79-09/08/82	3	12	
GRSM0003	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/22/93-08/18/94	1	4	
GRSM0005	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	09/29/70-09/29/70	0	1	
GRSM0006	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/25/79-09/26/79	0	20	
GRSM0008	Yes	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	09/29/70-09/26/79	8	21	
GRSM0010	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	11/06/70-05/09/72	1	9	
GRSM0020	Yes	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/22/93-08/18/94	1	4	
GRSM0021	Yes	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	05/03/66-01/31/67	0	9	
GRSM0031	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	01/23/73-09/06/73	0	4	
GRSM0036	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	02/04/74-01/17/77	2	38	
GRSM0048	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	03/03/74-01/17/77	2	36	
GRSM0054	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	02/15/77-12/27/78	1	23	
GRSM0057	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	05/04/66-06/17/80	14	67	
GRSM0069	Yes	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/25/79-08/18/94	15	28	
GRSM0078	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	01/28/74-01/24/77	2	37	
GRSM0084	Yes	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/30/68-03/24/69	0	8	
GRSM0087	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	01/23/67-03/24/69	2	17	
GRSM0091	Yes	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	10/03/77-03/10/78	0	2	
GRSM0102	Yes	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/30/68-03/24/69	0	8	
GRSM0105	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/30/68-03/24/69	0	9	
GRSM0182	Yes	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	12/10/85-02/21/86	0	2	
GRSM0184	Yes	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	11/07/73-02/11/86	12	40	
GRSM0202	Yes	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	01/08/68-03/18/75	7	19	
GRSM0222	Yes	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	01/08/68-07/29/68	0	6	
GRSM0250	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	10/21/75-02/08/77	1	17	
GRSM0251	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	10/21/75-09/07/76	0	13	
GRSM0262	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	02/23/77-10/11/78	1	12	
GRSM0264	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	10/25/84-10/25/84	0	1	
GRSM0091	Yes	00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	10/03/77-03/10/78	0	2	
GRSM0184	Yes	00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	11/07/73-09/08/82	8	38	
GRSM0258	No	00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	05/12/83-05/12/83	0	1	
GRSM0010	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	11/06/70-05/09/72	1	9	
GRSM0031	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	01/23/73-09/06/73	0	4	
GRSM0091	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/03/77-03/10/78	0	2	
GRSM0182	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/17/85-11/22/94	9	37	
GRSM0184	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	11/07/73-05/11/93	19	85	
GRSM0196	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/20/91-08/20/91	0	1	
GRSM0001	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	12	
GRSM0002	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0003	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/22/93-08/18/94	1	5	
GRSM0004	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/03/73-10/26/73	0	23	
GRSM0006	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/25/79-09/26/79	0	20	
GRSM0007	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-07/31/79	5	8	
GRSM0008	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/25/79-09/26/79	0	20	
GRSM0009	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	20	104	
GRSM0013	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	20	13	
GRSM0015	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/05/87-08/29/94	7	2	
GRSM0016	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	20	13	
GRSM0018	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/05/87-08/29/94	7	2	
GRSM0019	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/02/73-10/26/73	0	21	
GRSM0020	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/22/93-08/18/94	1	5	
GRSM0021	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/03/66-01/31/67	0	9	
GRSM0022	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-07/31/79	5	8	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0023	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/02/73-10/26/73	0	24	
GRSM0024	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	20	12	
GRSM0026	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/05/87-08/29/94	7	2	
GRSM0027	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	20	13	
GRSM0029	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/05/87-08/29/94	7	2	
GRSM0030	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/02/73-10/26/73	0	21	
GRSM0032	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	6	2	
GRSM0034	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-07/27/88	0	1	
GRSM0036	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-01/17/77	2	38	
GRSM0037	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-03/12/81	5	44	
GRSM0038	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	6	2	
GRSM0040	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	6	2	
GRSM0042	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	6	2	
GRSM0044	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	6	2	
GRSM0045	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	6	2	
GRSM0047	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	6	2	
GRSM0048	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/03/74-01/17/77	2	36	
GRSM0051	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0054	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/15/77-12/27/78	1	23	
GRSM0055	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-10/22/86	11	111	
GRSM0057	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/04/66-06/17/80	14	67	
GRSM0060	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/02/73-10/26/73	0	29	
GRSM0063	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	20	9	
GRSM0065	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/05/87-08/29/94	7	2	
GRSM0066	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	6	2	
GRSM0068	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	6	2	
GRSM0069	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/25/79-08/18/94	15	29	
GRSM0078	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/28/74-01/24/77	2	37	
GRSM0084	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/30/68-03/24/69	0	8	
GRSM0085	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-02/24/75	0	3	
GRSM0087	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/23/67-03/24/69	2	17	
GRSM0088	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-02/24/75	0	3	
GRSM0089	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0090	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0091	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/03/77-03/10/78	0	2	
GRSM0092	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0093	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0094	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/26/82-03/26/82	0	1	
GRSM0101	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-02/24/75	0	3	
GRSM0102	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/30/68-03/24/69	0	8	
GRSM0103	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/23/91-09/30/91	0	6	
GRSM0105	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/30/68-03/24/69	0	9	
GRSM0108	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/26/82-03/26/82	0	1	
GRSM0109	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-02/24/75	0	3	
GRSM0110	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/26/82-03/26/82	0	1	
GRSM0111	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/29/82-07/29/82	0	1	
GRSM0112	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/21/82-08/01/82	0	114	
GRSM0114	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/93-04/13/94	0	6	
GRSM0115	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/11/82-08/11/82	0	1	
GRSM0117	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/93-04/13/94	0	6	
GRSM0118	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/93-04/13/94	0	6	
GRSM0119	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/15/93-05/03/94	0	5	
GRSM0121	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/93-04/13/94	0	7	
GRSM0122	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/93-04/13/94	0	6	
GRSM0126	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/27/73-11/13/73	0	12	
GRSM0127	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/93-05/03/94	0	8	
GRSM0128	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/93-05/03/94	0	8	
GRSM0130	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/24/94-04/13/94	0	3	
GRSM0131	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/93-04/13/94	0	6	
GRSM0133	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/16/93-04/13/94	0	4	
GRSM0134	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/26/82-03/26/82	0	1	
GRSM0137	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/24/82-04/22/82	0	2	
GRSM0138	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/24/82-03/24/82	0	1	
GRSM0139	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/22/82-03/22/82	0	1	
GRSM0143	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/22/82-03/22/82	0	1	
GRSM0145	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/24/82-03/24/82	0	1	
GRSM0148	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/24/82-03/24/82	0	1	
GRSM0150	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/26/82-03/26/82	0	1	
GRSM0151	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/28/78-10/24/79	0	3	
GRSM0155	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/28/78-10/24/79	0	3	
GRSM0157	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/28/78-10/24/79	0	3	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0160	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/20/82-04/20/82	0	1	
GRSM0163	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/23/82-04/20/82	0	2	
GRSM0167	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/21/82-04/21/82	0	1	
GRSM0171	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/15/81-07/23/81	0	4	
GRSM0173	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/82-03/25/82	0	1	
GRSM0175	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/82-03/25/82	0	1	
GRSM0182	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/17/85-12/07/92	7	27	
GRSM0184	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/07/73-11/17/92	19	72	
GRSM0185	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/26/76-11/07/94	18	154	A
GRSM0189	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/28/78-10/24/79	0	3	
GRSM0192	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/15/81-07/23/81	0	5	
GRSM0196	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/20/91-08/20/91	0	1	
GRSM0197	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/01/90-07/28/92	1	2	
GRSM0199	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/01/90-07/28/92	1	2	
GRSM0202	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/08/68-03/18/75	7	19	
GRSM0203	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/01/90-07/28/92	1	2	
GRSM0205	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/01/90-07/28/92	1	2	
GRSM0210	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/01/90-07/28/92	1	2	
GRSM0212	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/01/90-07/28/92	1	2	
GRSM0218	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/15/81-08/13/81	0	5	
GRSM0219	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/15/81-08/13/81	0	5	
GRSM0222	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/08/68-07/29/68	0	6	
GRSM0225	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/15/81-08/13/81	0	5	
GRSM0226	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/30/81-08/13/81	0	3	
GRSM0228	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/06/81-05/06/81	0	1	
GRSM0234	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/15/81-08/13/81	0	5	
GRSM0236	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/15/81-08/13/81	0	6	
GRSM0239	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/15/81-08/13/81	0	6	
GRSM0246	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	10	
GRSM0247	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/24/73-09/20/73	0	18	
GRSM0250	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/21/75-02/08/77	1	17	
GRSM0251	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/21/75-09/07/76	0	13	
GRSM0253	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/05/73-06/08/73	0	4	
GRSM0256	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-12/05/94	20	144	T
GRSM0257	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/24/73-09/20/73	0	12	
GRSM0262	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/23/77-10/11/78	1	12	
GRSM0264	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/16/82-12/14/92	9	73	
GRSM0016	Yes	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	06/17/80-08/12/81	1	2	
GRSM0027	Yes	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	06/17/80-06/17/80	0	1	
GRSM0010	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/03/70-05/09/72	1	9	
GRSM0031	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/23/73-09/06/73	0	4	
GRSM0182	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	10/17/85-11/22/94	9	37	
GRSM0184	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/18/85-05/11/93	7	31	
GRSM0196	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/20/91-08/20/91	0	1	
GRSM0001	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	12	
GRSM0002	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0005	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/29/70-09/29/70	0	1	
GRSM0008	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/29/70-09/29/70	0	1	
GRSM0021	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/03/66-01/31/67	0	9	
GRSM0051	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0057	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/04/66-01/30/67	0	8	
GRSM0084	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/30/68-03/24/69	0	8	
GRSM0087	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/23/67-03/24/69	2	17	
GRSM0089	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0090	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0091	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/03/77-03/10/78	0	2	
GRSM0092	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0093	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0102	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/30/68-03/24/69	0	8	
GRSM0105	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/30/68-03/24/69	0	9	
GRSM0182	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/15/90-12/07/92	2	12	
GRSM0184	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/17/73-11/17/92	19	29	
GRSM0196	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/20/91-08/20/91	0	1	
GRSM0202	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/08/68-06/20/74	6	8	
GRSM0214	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/05/78-05/05/78	0	1	
GRSM0216	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/04/78-05/04/78	0	1	
GRSM0217	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/06/78-05/06/78	0	1	
GRSM0222	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/08/68-07/29/68	0	6	
GRSM0246	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	10	
GRSM0010	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/06/70-05/09/72	1	8	
GRSM0031	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/23/73-09/06/73	0	4	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0056	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/05/71-05/24/72	0	3	
GRSM0125	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/29/91-10/29/91	0	1	
GRSM0129	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/29/91-10/29/91	0	1	
GRSM0132	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/31/91-10/31/91	0	1	
GRSM0135	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/91-10/30/91	0	1	
GRSM0140	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/91-10/30/91	0	1	
GRSM0147	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/29/91-10/29/91	0	1	
GRSM0149	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/29/91-10/29/91	0	1	
GRSM0153	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/91-10/30/91	0	1	
GRSM0154	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/31/91-10/31/91	0	1	
GRSM0156	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/31/91-10/31/91	0	1	
GRSM0158	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/31/91-10/31/91	0	1	
GRSM0159	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/31/91-10/31/91	0	1	
GRSM0162	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/31/91-10/31/91	0	1	
GRSM0165	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/31/91-10/31/91	0	1	
GRSM0170	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/29/91-10/29/91	0	1	
GRSM0172	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/31/91-10/31/91	0	1	
GRSM0174	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/29/91-10/29/91	0	1	
GRSM0176	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/91-10/30/91	0	1	
GRSM0179	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/91-10/30/91	0	1	
GRSM0180	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/91-10/30/91	0	1	
GRSM0182	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	04/05/66-10/30/91	25	3	
GRSM0183	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/29/91-10/29/91	0	1	
GRSM0184	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/07/71-10/31/91	20	2	
GRSM0186	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	04/23/76-04/23/76	0	1	
GRSM0249	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/29/72-03/28/73	0	2	
GRSM0001	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	12	
GRSM0002	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0005	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/29/70-09/29/70	0	1	
GRSM0008	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/29/70-09/29/70	0	1	
GRSM0021	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/03/66-01/31/67	0	9	
GRSM0051	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0057	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/04/66-01/30/67	0	8	
GRSM0084	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/30/68-03/24/69	0	8	
GRSM0087	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/23/67-03/24/69	2	17	
GRSM0089	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0090	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0091	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/03/77-03/10/78	0	2	
GRSM0092	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0093	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0102	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/30/68-03/24/69	0	8	
GRSM0105	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/30/68-03/24/69	0	9	
GRSM0184	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/03/72-05/29/79	6	21	
GRSM0202	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/08/68-06/20/74	6	8	
GRSM0214	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/05/78-05/05/78	0	1	
GRSM0216	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/04/78-05/04/78	0	1	
GRSM0217	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/06/78-05/06/78	0	1	
GRSM0222	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/08/68-07/29/68	0	6	
GRSM0246	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	10	
GRSM0091	Yes	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	10/03/77-03/10/78	0	2	
GRSM0182	Yes	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	08/20/91-08/20/91	0	1	
GRSM0184	Yes	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	10/11/73-08/20/91	17	42	
GRSM0091	Yes	00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	10/03/77-03/10/78	0	2	
GRSM0184	Yes	00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	12/26/73-09/08/82	8	36	
GRSM0001	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	0	12	
GRSM0002	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0004	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/03/73-10/26/73	0	23	
GRSM0007	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-07/31/79	5	8	
GRSM0009	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	20	104	
GRSM0013	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	20	13	
GRSM0015	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/05/87-08/29/94	7	2	
GRSM0016	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	20	13	
GRSM0018	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/05/87-08/29/94	7	2	
GRSM0019	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/02/73-10/26/73	0	20	
GRSM0022	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-07/31/79	5	8	
GRSM0023	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/02/73-10/26/73	0	24	
GRSM0024	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	20	12	
GRSM0026	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/05/87-08/29/94	7	2	
GRSM0027	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	20	13	
GRSM0029	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/05/87-08/29/94	7	2	
GRSM0030	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/02/73-10/26/73	0	21	
GRSM0032	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	6	2	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0034	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-07/27/88	0	1	
GRSM0037	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-03/12/81	6	45	
GRSM0038	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	6	2	
GRSM0040	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	6	2	
GRSM0042	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	6	2	
GRSM0044	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	6	2	
GRSM0045	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	6	2	
GRSM0047	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	6	2	
GRSM0051	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	0	12	
GRSM0055	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-10/22/86	12	113	
GRSM0060	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/02/73-10/26/73	0	29	
GRSM0063	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	20	9	
GRSM0065	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/05/87-08/29/94	7	2	
GRSM0066	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	6	2	
GRSM0068	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	6	2	
GRSM0070	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/29/75-01/29/75	0	1	
GRSM0073	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/29/75-01/29/75	0	1	
GRSM0077	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/15/79-08/15/79	0	1	
GRSM0085	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-02/24/75	0	4	
GRSM0088	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-02/24/75	0	3	
GRSM0089	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0090	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	0	12	
GRSM0091	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/03/77-03/10/78	0	2	
GRSM0092	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0093	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0101	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-02/24/75	0	4	
GRSM0109	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-02/24/75	0	4	
GRSM0126	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/27/73-11/13/73	0	12	
GRSM0151	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/28/78-10/24/79	0	3	
GRSM0155	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/28/78-10/24/79	0	3	
GRSM0157	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/28/78-10/24/79	0	3	
GRSM0182	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/17/85-11/22/94	9	37	
GRSM0184	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/11/73-05/11/93	19	88	
GRSM0185	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/26/76-11/07/94	18	154	A
GRSM0189	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/28/78-10/24/79	0	3	
GRSM0196	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/20/91-08/20/91	0	1	
GRSM0197	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/01/90-07/28/92	1	2	
GRSM0199	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/01/90-07/28/92	1	2	
GRSM0203	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/01/90-07/28/92	1	2	
GRSM0205	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/01/90-07/28/92	1	2	
GRSM0210	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/01/90-07/28/92	1	2	
GRSM0212	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/01/90-07/28/92	1	2	
GRSM0246	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	0	10	
GRSM0247	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/73-09/20/73	0	18	
GRSM0253	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/05/73-06/08/73	0	4	
GRSM0256	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/25/73-12/05/94	21	149	T
GRSM0257	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/73-09/20/73	0	12	
GRSM0184	Yes	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	03/05/74-09/01/76	2	4	
GRSM0016	Yes	00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	06/17/80-08/12/81	1	2	
GRSM0027	Yes	00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	06/17/80-06/17/80	0	1	
GRSM0001	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	0	12	
GRSM0002	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0003	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/22/93-08/18/94	1	5	
GRSM0004	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/03/73-10/26/73	0	23	
GRSM0006	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/25/79-09/26/79	0	20	
GRSM0007	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-07/31/79	5	8	
GRSM0008	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/25/79-09/26/79	0	20	
GRSM0009	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	20	103	
GRSM0013	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	20	13	
GRSM0015	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/05/87-08/29/94	7	2	
GRSM0016	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	20	13	
GRSM0018	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/05/87-08/29/94	7	2	
GRSM0019	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/02/73-10/26/73	0	21	
GRSM0020	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/22/93-08/18/94	1	5	
GRSM0022	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-07/31/79	5	8	
GRSM0023	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/02/73-10/26/73	0	24	
GRSM0024	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	20	12	
GRSM0026	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/05/87-08/29/94	7	2	
GRSM0027	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	20	13	
GRSM0029	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/05/87-08/29/94	7	2	
GRSM0030	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/02/73-10/26/73	0	21	
GRSM0032	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-08/10/94	6	2	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0034	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-07/27/88	0	1	
GRSM0036	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/04/74-01/17/77	2	38	
GRSM0037	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-03/12/81	6	45	
GRSM0038	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-08/10/94	6	2	
GRSM0040	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-08/10/94	6	2	
GRSM0042	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-08/10/94	6	2	
GRSM0044	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-08/10/94	6	2	
GRSM0045	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-08/10/94	6	2	
GRSM0047	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-08/10/94	6	2	
GRSM0048	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/03/74-01/17/77	2	36	
GRSM0051	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0054	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/15/77-12/27/78	1	23	
GRSM0055	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-10/22/86	12	113	
GRSM0057	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/74-06/17/80	6	59	
GRSM0060	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/02/73-10/26/73	0	29	
GRSM0063	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	20	9	
GRSM0065	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/05/87-08/29/94	7	2	
GRSM0066	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-08/10/94	6	2	
GRSM0068	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-08/10/94	6	2	
GRSM0069	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/25/79-08/18/94	15	29	
GRSM0070	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/29/75-01/29/75	0	1	
GRSM0073	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/29/75-01/29/75	0	1	
GRSM0077	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/15/79-08/15/79	0	1	
GRSM0078	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/74-01/24/77	2	37	
GRSM0085	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-02/24/75	0	4	
GRSM0088	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-02/24/75	0	3	
GRSM0089	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0090	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0091	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/03/77-03/10/78	0	2	
GRSM0092	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0093	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	0	13	
GRSM0101	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-02/24/75	0	4	
GRSM0103	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/23/91-09/30/91	0	6	
GRSM0109	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-02/24/75	0	4	
GRSM0112	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/21/82-01/23/82	0	23	
GRSM0114	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/93-04/13/94	0	6	
GRSM0117	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/93-04/13/94	0	6	
GRSM0118	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/93-04/13/94	0	6	
GRSM0119	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/15/93-05/03/94	0	5	
GRSM0121	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/93-04/13/94	0	7	
GRSM0122	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/93-04/13/94	0	6	
GRSM0126	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/27/73-11/13/73	0	12	
GRSM0127	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/93-05/03/94	0	8	
GRSM0128	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/93-05/03/94	0	8	
GRSM0130	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/24/94-04/13/94	0	3	
GRSM0131	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/93-04/13/94	0	6	
GRSM0133	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/16/93-04/13/94	0	4	
GRSM0151	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/28/78-10/24/79	0	3	
GRSM0155	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/28/78-10/24/79	0	3	
GRSM0157	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/28/78-10/24/79	0	3	
GRSM0171	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/15/81-07/23/81	0	4	
GRSM0182	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/15/90-12/07/92	2	12	
GRSM0184	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/11/73-11/17/92	19	61	
GRSM0185	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/26/76-11/07/94	18	154	A
GRSM0189	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/28/78-10/24/79	0	3	
GRSM0192	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/15/81-07/23/81	0	5	
GRSM0196	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/20/91-08/20/91	0	1	
GRSM0197	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/01/90-07/28/92	1	2	
GRSM0199	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/01/90-07/28/92	1	2	
GRSM0202	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/24/74-03/18/75	0	11	
GRSM0203	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/01/90-07/28/92	1	2	
GRSM0205	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/01/90-07/28/92	1	2	
GRSM0210	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/01/90-07/28/92	1	2	
GRSM0212	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/01/90-07/28/92	1	2	
GRSM0214	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/05/78-05/05/78	0	1	
GRSM0216	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/04/78-05/04/78	0	1	
GRSM0217	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/06/78-05/06/78	0	1	
GRSM0218	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/15/81-08/13/81	0	5	
GRSM0219	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/15/81-08/13/81	0	5	
GRSM0225	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/15/81-08/13/81	0	5	
GRSM0226	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/30/81-08/13/81	0	3	
GRSM0228	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/06/81-05/06/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0234	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/15/81-08/13/81	0	5	
GRSM0236	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/15/81-08/13/81	0	6	
GRSM0239	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/15/81-08/13/81	0	6	
GRSM0246	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	0	10	
GRSM0247	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/24/73-09/20/73	0	18	
GRSM0250	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/21/75-02/08/77	1	17	
GRSM0251	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/21/75-09/07/76	0	13	
GRSM0253	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/05/73-06/08/73	0	4	
GRSM0256	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/25/73-12/05/94	21	148	T
GRSM0257	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/24/73-09/20/73	0	12	
GRSM0258	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/12/83-05/12/83	0	1	
GRSM0262	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/23/77-10/11/78	1	12	
GRSM0264	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/20/82-12/14/92	10	76	
GRSM0091	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/03/77-03/10/78	0	2	
GRSM0182	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/17/85-11/22/94	9	37	
GRSM0184	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/11/73-05/11/93	19	94	
GRSM0196	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/20/91-08/20/91	0	1	
GRSM0016	Yes	00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	06/17/80-08/12/81	1	2	
GRSM0027	Yes	00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	06/17/80-06/17/80	0	1	
GRSM0184	Yes	00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	03/05/74-09/01/76	2	4	
GRSM0103	No	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	05/23/91-09/30/91	0	6	
GRSM0171	Yes	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	04/15/81-07/23/81	0	4	
GRSM0192	Yes	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	04/15/81-07/23/81	0	5	
GRSM0218	No	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	04/15/81-08/13/81	0	5	
GRSM0219	No	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	04/15/81-08/13/81	0	5	
GRSM0225	Yes	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	04/15/81-08/13/81	0	5	
GRSM0226	Yes	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	05/30/81-08/13/81	0	3	
GRSM0228	Yes	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	05/06/81-05/06/81	0	1	
GRSM0234	No	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	04/15/81-08/13/81	0	5	
GRSM0236	No	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	04/15/81-08/13/81	0	6	
GRSM0239	No	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	04/15/81-08/13/81	0	6	
GRSM0264	No	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	10/20/82-12/14/92	10	78	
GRSM0010	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	11/06/70-11/08/71	1	5	
GRSM0094	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/26/82-03/26/82	0	1	
GRSM0108	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/26/82-03/26/82	0	1	
GRSM0110	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/26/82-03/26/82	0	1	
GRSM0111	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	07/29/82-07/29/82	0	1	
GRSM0112	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/17/82-08/01/82	0	91	
GRSM0115	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/11/82-08/11/82	0	1	
GRSM0134	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/26/82-03/26/82	0	1	
GRSM0137	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/24/82-04/22/82	0	2	
GRSM0138	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/24/82-03/24/82	0	1	
GRSM0139	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/22/82-03/22/82	0	1	
GRSM0143	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/22/82-03/22/82	0	1	
GRSM0145	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/24/82-03/24/82	0	1	
GRSM0148	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/24/82-03/24/82	0	1	
GRSM0150	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/26/82-03/26/82	0	1	
GRSM0160	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/20/82-04/20/82	0	1	
GRSM0163	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/23/82-04/20/82	0	2	
GRSM0167	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/21/82-04/21/82	0	1	
GRSM0173	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/25/82-03/25/82	0	1	
GRSM0175	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/25/82-03/25/82	0	1	
GRSM0182	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	11/20/67-09/30/68	0	10	
GRSM0184	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	11/01/67-05/29/79	11	7	
GRSM0249	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/27/68-07/21/70	2	2	
GRSM0007	No	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/29/75	1	2	
GRSM0011	No	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/29/68-12/10/74	6	13	
GRSM0013	Yes	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/31/75	1	6	
GRSM0016	Yes	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/29/75	1	2	
GRSM0022	No	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/29/75	1	2	
GRSM0024	Yes	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/31/75	1	6	
GRSM0027	Yes	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/29/75	1	2	
GRSM0037	No	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	06/20/68-11/21/74	6	12	
GRSM0041	No	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	10/18/82-10/18/82	0	1	
GRSM0055	No	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	06/20/68-11/21/74	6	12	
GRSM0059	No	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	06/20/68-11/27/74	6	8	
GRSM0061	Yes	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	10/19/82-10/19/82	0	1	
GRSM0063	Yes	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/29/75	1	2	
GRSM0070	No	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/29/68-01/29/75	6	15	
GRSM0072	Yes	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	12/13/83-05/08/85	1	24	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0073	No	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/29/68-01/29/75	6	15	
GRSM0077	No	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	10/18/82-10/18/82	0	1	
GRSM0229	Yes	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	12/13/83-05/15/85	1	51	
GRSM0007	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/29/75-07/29/75	0	1	
GRSM0009	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/24/75-04/21/76	1	9	
GRSM0010	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/26/71-05/09/72	0	3	
GRSM0013	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/29/75-07/29/75	0	1	
GRSM0016	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/29/75-07/29/75	0	1	
GRSM0022	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/29/75-07/29/75	0	1	
GRSM0024	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/29/75-07/29/75	0	1	
GRSM0027	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/29/75-07/29/75	0	1	
GRSM0031	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/23/73-05/10/73	0	3	
GRSM0037	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/28/75-05/28/75	0	1	
GRSM0055	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/28/75-05/28/75	0	1	
GRSM0056	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/21/68-03/16/71	2	8	
GRSM0063	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/29/75-07/29/75	0	1	
GRSM0070	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/29/75-01/29/75	0	1	
GRSM0073	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/29/75-01/29/75	0	1	
GRSM0076	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/25/68-09/25/68	0	1	
GRSM0085	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/29/75-02/24/75	0	2	
GRSM0088	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/24/75-02/24/75	0	1	
GRSM0091	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	10/03/77-03/10/78	0	2	
GRSM0101	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/29/75-02/24/75	0	2	
GRSM0107	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/24/68-09/24/68	0	1	
GRSM0109	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/29/75-02/24/75	0	2	
GRSM0120	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/24/68-09/24/68	0	1	
GRSM0144	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/25/68-09/25/68	0	1	
GRSM0161	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/25/68-09/25/68	0	1	
GRSM0164	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/25/68-09/25/68	0	1	
GRSM0178	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/24/68-09/24/68	0	1	
GRSM0184	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/01/68-11/02/82	14	41	
GRSM0221	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/25/68-09/25/68	0	1	
GRSM0227	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/25/68-09/25/68	0	1	
GRSM0240	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/24/68-09/24/68	0	1	
GRSM0249	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/11/68-03/23/71	2	11	
GRSM0254	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	12/19/79-12/19/79	0	1	
GRSM0256	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	10/25/73-12/04/75	2	7	
GRSM0050	Yes	00662	PHOSPHORUS (P), WATER, TOTAL RECOVERABLE UG/L	11/20/84-11/20/84	0	1	
GRSM0052	No	00662	PHOSPHORUS (P), WATER, TOTAL RECOVERABLE UG/L	11/20/84-11/20/84	0	1	
GRSM0080	No	00662	PHOSPHORUS (P), WATER, TOTAL RECOVERABLE UG/L	11/20/84-11/20/84	0	1	
GRSM0177	No	00662	PHOSPHORUS (P), WATER, TOTAL RECOVERABLE UG/L	11/20/84-11/20/84	0	1	
GRSM0191	No	00662	PHOSPHORUS (P), WATER, TOTAL RECOVERABLE UG/L	11/20/84-11/20/84	0	1	
GRSM0208	No	00662	PHOSPHORUS (P), WATER, TOTAL RECOVERABLE UG/L	11/29/84-11/29/84	0	1	
GRSM0001	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/24/74	0	12	
GRSM0002	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/24/74	0	13	
GRSM0003	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/22/93-08/18/94	1	4	
GRSM0004	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/03/73-10/26/73	0	23	
GRSM0005	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/29/70-09/29/70	0	1	
GRSM0006	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/25/79-09/26/79	0	20	
GRSM0007	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-07/31/79	5	8	
GRSM0008	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/29/70-09/26/79	8	21	
GRSM0009	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	20	103	
GRSM0011	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/29/68-07/28/71	2	8	
GRSM0013	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-08/29/94	20	13	
GRSM0015	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/05/87-08/29/94	7	2	
GRSM0016	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-08/29/94	20	13	
GRSM0018	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/05/87-08/29/94	7	2	
GRSM0019	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/02/73-10/26/73	0	20	
GRSM0020	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/22/93-08/18/94	1	4	
GRSM0021	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/03/66-01/31/67	0	9	
GRSM0022	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-07/31/79	5	8	
GRSM0023	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/02/73-10/26/73	0	24	
GRSM0024	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-08/29/94	20	12	
GRSM0026	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/05/87-08/29/94	7	2	
GRSM0027	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-08/29/94	20	13	
GRSM0029	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/05/87-08/29/94	7	2	
GRSM0030	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/02/73-10/26/73	0	21	
GRSM0031	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/06/73-09/06/73	0	1	
GRSM0032	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-08/10/94	6	2	
GRSM0034	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-07/27/88	0	1	
GRSM0036	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/04/74-01/17/77	2	38	
GRSM0037	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-03/12/81	12	54	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0038	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-08/10/94	6	2	
GRSM0040	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-08/10/94	6	2	
GRSM0042	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-08/10/94	6	2	
GRSM0044	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-08/10/94	6	2	
GRSM0045	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-08/10/94	6	2	
GRSM0047	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-08/10/94	6	2	
GRSM0048	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/03/74-01/17/77	2	36	
GRSM0051	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/24/74	0	12	
GRSM0054	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/15/77-12/27/78	1	23	
GRSM0055	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-10/22/86	18	124	
GRSM0056	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/71-05/24/72	0	3	
GRSM0057	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/66-06/17/80	14	67	
GRSM0060	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/02/73-10/26/73	0	29	
GRSM0063	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-08/29/94	20	9	
GRSM0065	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/05/87-08/29/94	7	2	
GRSM0066	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-08/10/94	6	2	
GRSM0068	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-08/10/94	6	2	
GRSM0069	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/25/79-08/18/94	15	28	
GRSM0070	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/29/75-01/29/75	0	1	
GRSM0071	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/85-07/11/85	0	4	
GRSM0073	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/29/75-01/29/75	0	1	
GRSM0077	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/15/79-08/15/79	0	1	
GRSM0078	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/28/74-01/24/77	2	37	
GRSM0081	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/85-07/08/85	0	4	
GRSM0084	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/21/68-03/24/69	0	7	
GRSM0085	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-02/24/75	0	4	
GRSM0086	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/20/85-07/03/85	0	4	
GRSM0087	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/23/67-03/24/69	2	17	
GRSM0088	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-02/24/75	0	3	
GRSM0089	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/24/74	0	13	
GRSM0090	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/24/74	0	12	
GRSM0091	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/03/77-03/10/78	0	2	
GRSM0092	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/10/74	0	12	
GRSM0093	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/24/74	0	13	
GRSM0095	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/03/85-07/03/85	0	1	
GRSM0099	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/22/85-07/16/85	0	2	
GRSM0100	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/08/85-07/08/85	0	1	
GRSM0101	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-02/24/75	0	4	
GRSM0102	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/30/68-03/24/69	0	8	
GRSM0103	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/23/91-09/30/91	0	6	
GRSM0105	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/30/68-03/24/69	0	9	
GRSM0106	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/85-07/16/85	0	4	
GRSM0109	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-02/24/75	0	4	
GRSM0112	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/21/82-01/23/82	0	23	
GRSM0114	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/93-04/13/94	0	6	
GRSM0117	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/93-04/13/94	0	6	
GRSM0118	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/93-04/13/94	0	6	
GRSM0119	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/15/93-05/03/94	0	5	
GRSM0121	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/93-04/13/94	0	7	
GRSM0122	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/93-04/13/94	0	6	
GRSM0126	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/27/73-11/13/73	0	12	
GRSM0127	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/93-05/03/94	0	8	
GRSM0128	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/93-05/03/94	0	8	
GRSM0130	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/24/94-04/13/94	0	3	
GRSM0131	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/93-04/13/94	0	6	
GRSM0133	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/16/93-04/13/94	0	4	
GRSM0151	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/28/78-04/11/79	0	2	
GRSM0152	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/10/85-07/10/85	0	1	
GRSM0155	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/28/78-04/11/79	0	2	
GRSM0157	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/28/78-04/11/79	0	2	
GRSM0171	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/15/81-07/23/81	0	4	
GRSM0182	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/17/85-11/22/94	9	37	
GRSM0184	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/09/70-05/11/93	23	103	
GRSM0185	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/26/76-11/07/94	18	153	A
GRSM0189	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/28/78-04/11/79	0	2	
GRSM0190	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/27/85-07/10/85	0	4	
GRSM0192	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/15/81-07/23/81	0	5	
GRSM0194	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/85-07/08/85	0	4	
GRSM0195	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/16/85-07/16/85	0	1	
GRSM0196	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/20/91-08/20/91	0	1	
GRSM0197	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/01/90-07/28/92	1	2	
GRSM0199	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/01/90-07/28/92	1	2	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0202	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/11/68-03/18/75	7	18	
GRSM0203	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/01/90-07/28/92	1	2	
GRSM0205	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/01/90-07/28/92	1	2	
GRSM0206	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/08/85-07/08/85	0	1	
GRSM0210	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/01/90-07/28/92	1	2	
GRSM0212	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/01/90-07/28/92	1	2	
GRSM0213	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/28/85-07/16/85	0	4	
GRSM0214	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/05/78-05/05/78	0	1	
GRSM0216	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/78-05/04/78	0	1	
GRSM0217	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/06/78-05/06/78	0	1	
GRSM0218	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/15/81-08/13/81	0	5	
GRSM0219	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/15/81-08/13/81	0	5	
GRSM0222	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/08/68-07/29/68	0	6	
GRSM0225	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/15/81-08/13/81	0	5	
GRSM0226	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/30/81-08/13/81	0	3	
GRSM0228	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/06/81-05/06/81	0	1	
GRSM0234	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/15/81-08/13/81	0	5	
GRSM0236	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/15/81-08/13/81	0	6	
GRSM0237	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/28/85-07/10/85	0	4	
GRSM0239	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/15/81-08/13/81	0	6	
GRSM0244	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/10/67-12/06/68	1	15	
GRSM0246	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/24/74	0	10	
GRSM0247	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/73-09/20/73	0	18	
GRSM0249	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/29/72-03/28/73	0	2	
GRSM0250	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/21/75-02/08/77	1	17	
GRSM0251	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/21/75-09/07/76	0	13	
GRSM0253	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/05/73-06/08/73	0	4	
GRSM0254	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/19/79-12/19/79	0	1	
GRSM0255	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/07/85-07/07/85	0	1	
GRSM0256	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/25/73-12/05/94	21	147	T
GRSM0257	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/73-09/20/73	0	12	
GRSM0258	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/12/83-05/12/83	0	1	
GRSM0259	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/85-07/07/85	0	4	
GRSM0262	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/23/77-10/11/78	1	12	
GRSM0264	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/20/82-12/14/92	10	76	
GRSM0013	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/12/81-08/04/82	0	2	
GRSM0016	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/12/81-08/04/82	0	2	
GRSM0021	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/03/66-01/31/67	0	9	
GRSM0024	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/12/81-08/04/82	0	2	
GRSM0027	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/12/81-08/04/82	0	2	
GRSM0036	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/19/76-04/19/76	0	1	
GRSM0048	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/19/76-05/17/76	0	2	
GRSM0057	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/04/66-05/20/76	10	10	
GRSM0078	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/19/76-05/17/76	0	2	
GRSM0084	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/21/68-03/24/69	0	6	
GRSM0087	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	01/23/67-03/24/69	2	15	
GRSM0091	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/03/77-03/10/78	0	2	
GRSM0102	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/30/68-12/02/68	0	5	
GRSM0105	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/30/68-03/24/69	0	8	
GRSM0182	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/17/85-11/22/94	9	37	
GRSM0184	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/11/73-05/11/93	19	84	
GRSM0196	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/20/91-08/20/91	0	1	
GRSM0202	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	01/08/68-03/18/75	7	18	
GRSM0222	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	01/08/68-07/29/68	0	6	
GRSM0250	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/21/75-02/08/77	1	17	
GRSM0251	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/21/75-09/07/76	0	13	
GRSM0258	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/12/83-05/12/83	0	1	
GRSM0016	Yes	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	06/17/80-08/12/81	1	2	
GRSM0027	Yes	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	06/17/80-06/17/80	0	1	
GRSM0035	Yes	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0053	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0097	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0184	Yes	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	03/05/74-09/01/76	2	4	
GRSM0001	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	0	12	
GRSM0002	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	0	13	
GRSM0003	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/22/93-08/18/94	1	4	
GRSM0004	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/03/73-10/26/73	0	23	
GRSM0019	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/02/73-10/26/73	0	21	
GRSM0020	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/22/93-08/18/94	1	4	
GRSM0023	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/02/73-10/26/73	0	24	
GRSM0030	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/02/73-10/26/73	0	21	
GRSM0051	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	0	13	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0057	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/20/79-06/17/80	1	9	
GRSM0060	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/02/73-10/26/73	0	29	
GRSM0069	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/21/93-08/18/94	1	8	
GRSM0089	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	0	13	
GRSM0090	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	0	13	
GRSM0091	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/03/77-03/10/78	0	2	
GRSM0092	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	0	13	
GRSM0093	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	0	13	
GRSM0125	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/29/91-10/29/91	0	1	
GRSM0126	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/27/73-11/13/73	0	12	
GRSM0129	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/29/91-10/29/91	0	1	
GRSM0132	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/31/91-10/31/91	0	1	
GRSM0135	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/30/91-10/30/91	0	1	
GRSM0140	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/30/91-10/30/91	0	1	
GRSM0147	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/29/91-10/29/91	0	1	
GRSM0149	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/29/91-10/29/91	0	1	
GRSM0153	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/30/91-10/30/91	0	1	
GRSM0154	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/31/91-10/31/91	0	1	
GRSM0156	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/31/91-10/31/91	0	1	
GRSM0158	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/31/91-10/31/91	0	1	
GRSM0159	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/31/91-10/31/91	0	1	
GRSM0162	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/31/91-10/31/91	0	1	
GRSM0165	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/31/91-10/31/91	0	1	
GRSM0170	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/29/91-10/29/91	0	1	
GRSM0172	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/31/91-10/31/91	0	1	
GRSM0174	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/29/91-10/29/91	0	1	
GRSM0176	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/30/91-10/30/91	0	1	
GRSM0179	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/30/91-10/30/91	0	1	
GRSM0180	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/30/91-10/30/91	0	1	
GRSM0182	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/17/85-11/22/94	9	38	
GRSM0183	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/29/91-10/29/91	0	1	
GRSM0184	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/07/73-05/11/93	19	81	
GRSM0196	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/20/91-08/20/91	0	1	
GRSM0246	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	0	10	
GRSM0247	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/24/73-09/20/73	0	18	
GRSM0254	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	12/19/79-12/19/79	0	1	
GRSM0257	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/24/73-09/20/73	0	12	
GRSM0006	No	00677	PHOSPHORUS,HYDROLYZABLE + ORTHO,DIS,AUTOANALYZER	04/25/79-09/26/79	0	15	
GRSM0008	Yes	00677	PHOSPHORUS,HYDROLYZABLE + ORTHO,DIS,AUTOANALYZER	04/25/79-09/26/79	0	17	
GRSM0069	Yes	00677	PHOSPHORUS,HYDROLYZABLE + ORTHO,DIS,AUTOANALYZER	04/25/79-09/26/79	0	17	
GRSM0003	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/22/93-08/18/94	1	4	
GRSM0009	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/02/75-12/11/80	5	11	
GRSM0020	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/22/93-08/18/94	1	4	
GRSM0037	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/21/79-12/11/80	1	7	
GRSM0054	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/15/77-10/24/78	1	8	
GRSM0055	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/09/77-12/11/80	3	11	
GRSM0057	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/17/77-06/17/80	3	16	
GRSM0069	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/21/93-08/18/94	1	8	
GRSM0072	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/16/84-05/16/84	0	1	
GRSM0094	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/26/82-03/26/82	0	1	
GRSM0108	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/26/82-03/26/82	0	1	
GRSM0110	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/26/82-03/26/82	0	1	
GRSM0111	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/29/82-07/29/82	0	1	
GRSM0112	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/26/82-08/01/82	0	64	
GRSM0115	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/11/82-08/11/82	0	1	
GRSM0134	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/26/82-03/26/82	0	1	
GRSM0137	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/24/82-04/22/82	0	2	
GRSM0138	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/24/82-03/24/82	0	1	
GRSM0139	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/22/82-03/22/82	0	1	
GRSM0143	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/22/82-03/22/82	0	1	
GRSM0145	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/24/82-03/24/82	0	1	
GRSM0148	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/24/82-03/24/82	0	1	
GRSM0150	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/26/82-03/26/82	0	1	
GRSM0160	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/20/82-04/20/82	0	1	
GRSM0163	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/23/82-04/20/82	0	2	
GRSM0167	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/21/82-04/21/82	0	1	
GRSM0173	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/25/82-03/25/82	0	1	
GRSM0175	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/25/82-03/25/82	0	1	
GRSM0184	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/15/69-07/12/82	13	32	
GRSM0185	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/19/79-12/15/80	1	9	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0202	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/24/74-01/14/75	0	4	
GRSM0214	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/05/78-05/05/78	0	1	
GRSM0216	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/04/78-05/04/78	0	1	
GRSM0217	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/06/78-05/06/78	0	1	
GRSM0229	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/15/84-05/15/84	0	1	
GRSM0250	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/08/77-02/08/77	0	1	
GRSM0253	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/05/73-06/08/73	0	4	
GRSM0256	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/19/79-12/15/80	1	7	
GRSM0258	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/12/83-05/12/83	0	1	
GRSM0262	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/23/77-10/11/78	1	8	
GRSM0050	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	11/20/84-11/20/84	0	1	
GRSM0052	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	11/20/84-11/20/84	0	1	
GRSM0057	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/20/79-03/20/79	0	1	
GRSM0071	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/25/85-07/11/85	0	4	
GRSM0072	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	12/13/83-05/08/85	1	24	
GRSM0080	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	11/20/84-11/20/84	0	1	
GRSM0081	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/25/85-07/08/85	0	4	
GRSM0086	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/20/85-07/03/85	0	4	
GRSM0094	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/26/82-03/26/82	0	1	
GRSM0095	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/03/85-07/03/85	0	1	
GRSM0099	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	04/22/85-07/16/85	0	2	
GRSM0100	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/08/85-07/08/85	0	1	
GRSM0106	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/25/85-07/16/85	0	4	
GRSM0108	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/26/82-03/26/82	0	1	
GRSM0110	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/26/82-03/26/82	0	1	
GRSM0111	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/29/82-07/29/82	0	1	
GRSM0112	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/26/82-08/01/82	0	64	
GRSM0115	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	08/11/82-08/11/82	0	1	
GRSM0134	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/26/82-03/26/82	0	1	
GRSM0137	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/24/82-04/22/82	0	2	
GRSM0138	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/24/82-03/24/82	0	1	
GRSM0139	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/22/82-03/22/82	0	1	
GRSM0143	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/22/82-03/22/82	0	1	
GRSM0145	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/24/82-03/24/82	0	1	
GRSM0148	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/24/82-03/24/82	0	1	
GRSM0150	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/26/82-03/26/82	0	1	
GRSM0152	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/10/85-07/10/85	0	1	
GRSM0160	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	04/20/82-04/20/82	0	1	
GRSM0163	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/23/82-04/20/82	0	2	
GRSM0167	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	04/21/82-04/21/82	0	1	
GRSM0173	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/25/82-03/25/82	0	1	
GRSM0175	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/25/82-03/25/82	0	1	
GRSM0177	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	11/20/84-11/20/84	0	1	
GRSM0184	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	10/11/73-09/08/82	8	37	
GRSM0190	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/27/85-07/10/85	0	4	
GRSM0191	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	11/20/84-11/20/84	0	1	
GRSM0194	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/25/85-07/08/85	0	4	
GRSM0195	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/16/85-07/16/85	0	1	
GRSM0206	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/08/85-07/08/85	0	1	
GRSM0208	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	11/29/84-11/29/84	0	1	
GRSM0213	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/28/85-07/16/85	0	4	
GRSM0229	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	12/13/83-05/15/85	1	51	
GRSM0237	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/28/85-07/10/85	0	4	
GRSM0255	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/07/85-07/07/85	0	1	
GRSM0259	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/24/85-07/07/85	0	4	
GRSM0184	Yes	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	03/05/74-09/01/76	2	4	
GRSM0184	Yes	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	01/30/79-09/08/82	3	7	
GRSM0050	Yes	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	11/20/84-11/20/84	0	1	
GRSM0052	No	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	11/20/84-11/20/84	0	1	
GRSM0071	Yes	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	03/25/85-07/11/85	0	4	
GRSM0080	No	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	11/20/84-11/20/84	0	1	
GRSM0081	Yes	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	03/25/85-07/08/85	0	4	
GRSM0086	Yes	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	03/20/85-07/03/85	0	4	
GRSM0095	Yes	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	07/03/85-07/03/85	0	1	
GRSM0099	No	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	04/22/85-07/16/85	0	2	
GRSM0100	Yes	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	07/08/85-07/08/85	0	1	
GRSM0106	No	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	03/25/85-07/16/85	0	4	
GRSM0152	Yes	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	07/10/85-07/10/85	0	1	
GRSM0177	No	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	11/20/84-11/20/84	0	1	
GRSM0190	Yes	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	03/27/85-07/10/85	0	4	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0191	No	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	11/20/84-11/20/84	0	1	
GRSM0194	Yes	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	03/25/85-07/08/85	0	4	
GRSM0195	Yes	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	07/16/85-07/16/85	0	1	
GRSM0206	Yes	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	07/08/85-07/08/85	0	1	
GRSM0208	No	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	11/29/84-11/29/84	0	1	
GRSM0213	Yes	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	03/28/85-07/16/85	0	4	
GRSM0237	Yes	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	03/28/85-07/10/85	0	4	
GRSM0255	Yes	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	07/07/85-07/07/85	0	1	
GRSM0259	No	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	03/24/85-07/07/85	0	4	
GRSM0007	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	07/16/74-07/29/75	1	2	
GRSM0013	Yes	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	07/16/74-07/29/75	1	2	
GRSM0016	Yes	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	07/16/74-07/29/75	1	2	
GRSM0022	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	07/16/74-07/29/75	1	2	
GRSM0024	Yes	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	07/16/74-07/06/78	3	3	
GRSM0027	Yes	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	07/16/74-07/29/75	1	2	
GRSM0063	Yes	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	07/16/74-07/29/75	1	2	
GRSM0070	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/29/75-01/29/75	0	1	
GRSM0073	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/29/75-01/29/75	0	1	
GRSM0184	Yes	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	03/05/74-09/08/82	8	12	
GRSM0214	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	05/05/78-05/05/78	0	1	
GRSM0216	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	05/04/78-05/04/78	0	1	
GRSM0217	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	05/06/78-05/06/78	0	1	
GRSM0230	Yes	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	06/05/80-06/05/80	0	1	
GRSM0249	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	08/29/72-08/29/72	0	1	
GRSM0230	Yes	00721	CYANIDE IN BOTTOM DEPOSITS (MG/KG AS CN DRY WGT)	06/05/80-06/05/80	0	1	
GRSM0007	No	00740	SULFITE (MG/L AS SO3)	07/29/75-07/29/75	0	1	
GRSM0011	No	00740	SULFITE (MG/L AS SO3)	06/25/73-12/10/74	1	4	
GRSM0013	Yes	00740	SULFITE (MG/L AS SO3)	07/09/75-07/29/75	0	2	
GRSM0016	Yes	00740	SULFITE (MG/L AS SO3)	07/29/75-07/29/75	0	1	
GRSM0022	No	00740	SULFITE (MG/L AS SO3)	07/29/75-07/29/75	0	1	
GRSM0024	Yes	00740	SULFITE (MG/L AS SO3)	07/09/75-07/29/75	0	2	
GRSM0027	Yes	00740	SULFITE (MG/L AS SO3)	07/29/75-07/29/75	0	1	
GRSM0037	No	00740	SULFITE (MG/L AS SO3)	06/25/73-11/21/74	1	2	
GRSM0055	No	00740	SULFITE (MG/L AS SO3)	06/25/73-11/21/74	1	2	
GRSM0059	No	00740	SULFITE (MG/L AS SO3)	06/25/73-11/27/74	1	2	
GRSM0063	Yes	00740	SULFITE (MG/L AS SO3)	07/29/75-07/29/75	0	1	
GRSM0070	No	00740	SULFITE (MG/L AS SO3)	06/21/73-01/29/75	1	6	
GRSM0073	No	00740	SULFITE (MG/L AS SO3)	06/21/73-01/29/75	1	6	
GRSM0009	No	00745	SULFIDE, TOTAL (MG/L AS S)	12/08/75-12/08/75	0	1	
GRSM0011	No	00745	SULFIDE, TOTAL (MG/L AS S)	07/29/68-07/28/71	2	8	
GRSM0020	Yes	00745	SULFIDE, TOTAL (MG/L AS S)	08/18/94-08/18/94	0	3	
GRSM0037	No	00745	SULFIDE, TOTAL (MG/L AS S)	06/20/68-07/28/71	3	9	
GRSM0055	No	00745	SULFIDE, TOTAL (MG/L AS S)	06/20/68-06/25/73	5	11	
GRSM0056	No	00745	SULFIDE, TOTAL (MG/L AS S)	12/08/70-12/08/70	0	1	
GRSM0167	Yes	00745	SULFIDE, TOTAL (MG/L AS S)	04/21/82-04/21/82	0	1	
GRSM0256	No	00745	SULFIDE, TOTAL (MG/L AS S)	10/18/68-05/17/73	4	2	
GRSM0009	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/02/75-01/09/95	20	75	
GRSM0010	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/19/56-05/09/72	15	72	
GRSM0031	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/23/73-09/06/73	0	4	
GRSM0055	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/77-08/20/86	9	21	
GRSM0056	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/21/68-05/24/72	4	11	
GRSM0057	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/20/79-06/17/80	1	9	
GRSM0074	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/06/56-04/13/62	5	8	
GRSM0076	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	0	1	
GRSM0091	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/23/73-08/08/74	0	2	
GRSM0107	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/24/68-09/24/68	0	1	
GRSM0114	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/15/93-04/13/94	0	6	
GRSM0117	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/15/93-04/13/94	0	6	
GRSM0118	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/15/93-03/16/94	0	5	
GRSM0119	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/15/93-05/03/94	0	5	
GRSM0120	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/24/68-09/24/68	0	1	
GRSM0121	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/15/93-03/16/94	0	6	
GRSM0122	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/15/93-04/13/94	0	6	
GRSM0127	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/15/93-05/03/94	0	8	
GRSM0128	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/17/93-05/03/94	0	7	
GRSM0130	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/24/94-04/13/94	0	3	
GRSM0131	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/17/93-04/13/94	0	5	
GRSM0133	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/16/93-04/13/94	0	5	
GRSM0144	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	0	1	
GRSM0161	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	0	1	
GRSM0164	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	0	1	
GRSM0178	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/24/68-09/24/68	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0182	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/10/63-12/10/85	22	22	
GRSM0184	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/18/62-02/11/86	23	83	
GRSM0185	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/24/83-12/05/94	11	85	
GRSM0186	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/23/76-04/23/76	0	1	
GRSM0214	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/05/78-05/05/78	0	1	
GRSM0216	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/04/78-05/04/78	0	1	
GRSM0217	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/06/78-05/06/78	0	1	
GRSM0221	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	0	1	
GRSM0223	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/06/67-08/01/68	0	4	
GRSM0227	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	0	1	
GRSM0240	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/24/68-09/24/68	0	1	
GRSM0244	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/10/67-12/06/68	1	15	
GRSM0249	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/17/57-03/28/73	15	74	
GRSM0251	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/21/75-09/07/76	0	13	
GRSM0256	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/24/83-12/05/94	11	72	
GRSM0264	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/20/82-12/14/92	10	80	
GRSM0010	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/19/56-05/09/72	15	72	
GRSM0031	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/23/73-09/06/73	0	4	
GRSM0056	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/21/68-05/24/72	4	11	
GRSM0074	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/06/56-04/13/62	5	8	
GRSM0076	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/25/68-09/25/68	0	1	
GRSM0091	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/23/73-08/08/74	0	2	
GRSM0107	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/24/68-09/24/68	0	1	
GRSM0120	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/24/68-09/24/68	0	1	
GRSM0144	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/25/68-09/25/68	0	1	
GRSM0161	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/25/68-09/25/68	0	1	
GRSM0164	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/25/68-09/25/68	0	1	
GRSM0178	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/24/68-09/24/68	0	1	
GRSM0182	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/10/63-12/10/85	22	22	
GRSM0184	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/18/62-02/11/86	23	83	
GRSM0186	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	04/23/76-04/23/76	0	1	
GRSM0214	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/05/78-05/05/78	0	1	
GRSM0216	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/04/78-05/04/78	0	1	
GRSM0217	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/06/78-05/06/78	0	1	
GRSM0221	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/25/68-09/25/68	0	1	
GRSM0223	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/06/67-08/01/68	0	4	
GRSM0227	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/25/68-09/25/68	0	1	
GRSM0240	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/24/68-09/24/68	0	1	
GRSM0249	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/17/57-03/28/73	15	74	
GRSM0050	Yes	00910	CALCIUM (MG/L AS CACO3)	11/20/84-11/20/84	0	1	
GRSM0052	No	00910	CALCIUM (MG/L AS CACO3)	11/20/84-11/20/84	0	1	
GRSM0080	No	00910	CALCIUM (MG/L AS CACO3)	11/20/84-11/20/84	0	1	
GRSM0177	No	00910	CALCIUM (MG/L AS CACO3)	11/20/84-11/20/84	0	1	
GRSM0191	No	00910	CALCIUM (MG/L AS CACO3)	11/20/84-11/20/84	0	1	
GRSM0208	No	00910	CALCIUM (MG/L AS CACO3)	11/29/84-11/29/84	0	1	
GRSM0244	No	00910	CALCIUM (MG/L AS CACO3)	10/10/67-12/06/68	1	15	
GRSM0010	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/19/56-05/09/72	15	72	
GRSM0031	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/23/73-09/06/73	0	4	
GRSM0041	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/18/82-10/18/82	0	1	
GRSM0056	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/21/68-05/24/72	4	11	
GRSM0061	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/19/82-10/19/82	0	1	
GRSM0071	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/25/85-07/11/85	0	4	
GRSM0072	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/13/83-05/08/85	1	24	
GRSM0074	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/06/56-04/13/62	5	8	
GRSM0076	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/68-09/25/68	0	1	
GRSM0077	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/18/82-10/18/82	0	1	
GRSM0081	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/25/85-07/08/85	0	4	
GRSM0086	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/20/85-07/03/85	0	4	
GRSM0091	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/23/73-08/08/74	0	2	
GRSM0095	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/03/85-07/03/85	0	1	
GRSM0099	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/22/85-07/16/85	0	2	
GRSM0100	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/08/85-07/08/85	0	1	
GRSM0106	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/25/85-07/16/85	0	4	
GRSM0107	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/24/68-09/24/68	0	1	
GRSM0120	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/24/68-09/24/68	0	1	
GRSM0125	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/29/91-10/29/91	0	1	
GRSM0129	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/29/91-10/29/91	0	1	
GRSM0132	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/91-10/31/91	0	1	
GRSM0135	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/30/91-10/30/91	0	1	
GRSM0140	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/30/91-10/30/91	0	1	
GRSM0144	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/68-09/25/68	0	1	
GRSM0147	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/29/91-10/29/91	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0149	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/29/91-10/29/91	0	1	
GRSM0152	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/10/85-07/10/85	0	1	
GRSM0153	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/30/91-10/30/91	0	1	
GRSM0154	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/91-10/31/91	0	1	
GRSM0156	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/91-10/31/91	0	1	
GRSM0158	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/91-10/31/91	0	1	
GRSM0159	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/91-10/31/91	0	1	
GRSM0161	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/68-09/25/68	0	1	
GRSM0162	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/91-10/31/91	0	1	
GRSM0164	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/68-09/25/68	0	1	
GRSM0165	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/91-10/31/91	0	1	
GRSM0170	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/29/91-10/29/91	0	1	
GRSM0172	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/91-10/31/91	0	1	
GRSM0174	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/29/91-10/29/91	0	1	
GRSM0176	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/30/91-10/30/91	0	1	
GRSM0178	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/24/68-09/24/68	0	1	
GRSM0179	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/30/91-10/30/91	0	1	
GRSM0180	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/30/91-10/30/91	0	1	
GRSM0182	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/10/63-11/22/94	31	58	S
GRSM0183	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/29/91-10/29/91	0	1	
GRSM0184	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/18/62-05/11/93	30	123	T,S
GRSM0186	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/23/76-04/23/76	0	1	
GRSM0190	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/27/85-07/10/85	0	4	
GRSM0194	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/25/85-07/08/85	0	4	
GRSM0195	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/16/85-07/16/85	0	1	
GRSM0206	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/08/85-07/08/85	0	1	
GRSM0213	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/28/85-07/16/85	0	4	
GRSM0214	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/05/78-05/05/78	0	1	
GRSM0216	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/04/78-05/04/78	0	1	
GRSM0217	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/06/78-05/06/78	0	1	
GRSM0221	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/68-09/25/68	0	1	
GRSM0223	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/06/67-08/01/68	0	4	
GRSM0227	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/68-09/25/68	0	1	
GRSM0229	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/13/83-05/15/85	1	51	
GRSM0237	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/28/85-07/10/85	0	4	
GRSM0240	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/24/68-09/24/68	0	1	
GRSM0249	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/17/57-03/28/73	15	74	
GRSM0255	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/07/85-07/07/85	0	1	
GRSM0259	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/24/85-07/07/85	0	4	
GRSM0009	No	00916	CALCIUM, TOTAL (MG/L AS CA)	02/15/77-12/21/89	12	7	
GRSM0014	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	08/05/87-08/05/87	0	1	
GRSM0017	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	08/05/87-08/05/87	0	1	
GRSM0021	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	05/03/66-01/31/67	0	9	
GRSM0025	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	08/05/87-08/05/87	0	1	
GRSM0028	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	08/05/87-08/05/87	0	1	
GRSM0036	No	00916	CALCIUM, TOTAL (MG/L AS CA)	02/04/74-01/17/77	2	37	
GRSM0037	No	00916	CALCIUM, TOTAL (MG/L AS CA)	05/17/77-03/13/79	1	4	
GRSM0048	No	00916	CALCIUM, TOTAL (MG/L AS CA)	03/03/74-01/17/77	2	36	
GRSM0054	No	00916	CALCIUM, TOTAL (MG/L AS CA)	02/15/77-10/24/78	1	8	
GRSM0055	No	00916	CALCIUM, TOTAL (MG/L AS CA)	02/15/77-03/21/78	1	8	
GRSM0057	No	00916	CALCIUM, TOTAL (MG/L AS CA)	10/24/66-02/26/79	12	49	
GRSM0064	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	08/05/87-08/05/87	0	1	
GRSM0078	No	00916	CALCIUM, TOTAL (MG/L AS CA)	01/28/74-01/24/77	2	37	
GRSM0084	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	04/30/68-03/24/69	0	8	
GRSM0087	No	00916	CALCIUM, TOTAL (MG/L AS CA)	01/23/67-03/24/69	2	17	
GRSM0094	No	00916	CALCIUM, TOTAL (MG/L AS CA)	03/26/82-03/26/82	0	1	
GRSM0102	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	04/30/68-03/24/69	0	8	
GRSM0105	No	00916	CALCIUM, TOTAL (MG/L AS CA)	04/30/68-03/24/69	0	9	
GRSM0108	No	00916	CALCIUM, TOTAL (MG/L AS CA)	03/26/82-03/26/82	0	1	
GRSM0110	No	00916	CALCIUM, TOTAL (MG/L AS CA)	11/12/81-03/26/82	0	3	
GRSM0111	No	00916	CALCIUM, TOTAL (MG/L AS CA)	12/01/81-12/01/81	0	3	
GRSM0112	No	00916	CALCIUM, TOTAL (MG/L AS CA)	11/12/81-08/01/82	0	130	
GRSM0115	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	08/11/82-08/11/82	0	1	
GRSM0134	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	03/26/82-03/26/82	0	1	
GRSM0136	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	11/12/81-11/12/81	0	1	
GRSM0137	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	12/02/81-04/22/82	0	3	
GRSM0138	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	11/12/81-03/24/82	0	3	
GRSM0139	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	03/22/82-03/22/82	0	1	
GRSM0142	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	12/02/81-12/02/81	0	1	
GRSM0143	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	03/22/82-03/22/82	0	1	
GRSM0145	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	03/24/82-03/24/82	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0148	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	03/24/82-03/24/82	0	1	
GRSM0150	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	03/26/82-03/26/82	0	1	
GRSM0160	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	04/20/82-04/20/82	0	1	
GRSM0163	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	03/23/82-04/20/82	0	2	
GRSM0167	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	04/21/82-04/21/82	0	1	
GRSM0173	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	03/25/82-03/25/82	0	1	
GRSM0175	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	12/02/81-03/25/82	0	2	
GRSM0185	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	05/20/77-03/15/89	11	4	
GRSM0202	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	01/08/68-03/18/75	7	18	
GRSM0222	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	01/08/68-07/29/68	0	5	
GRSM0230	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	06/05/80-06/05/80	0	1	
GRSM0250	No	00916	CALCIUM, TOTAL (MG/L AS CA)	10/21/75-02/08/77	1	17	
GRSM0251	No	00916	CALCIUM, TOTAL (MG/L AS CA)	10/21/75-09/07/76	0	13	
GRSM0256	No	00916	CALCIUM, TOTAL (MG/L AS CA)	05/20/77-11/09/77	0	2	
GRSM0258	No	00916	CALCIUM, TOTAL (MG/L AS CA)	11/03/71-11/03/71	0	1	
GRSM0262	No	00916	CALCIUM, TOTAL (MG/L AS CA)	02/23/77-10/11/78	1	8	
GRSM0003	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/16/93-08/16/93	0	1	
GRSM0020	Yes	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/16/93-08/16/93	0	1	
GRSM0069	Yes	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/16/93-08/16/93	0	2	
GRSM0230	Yes	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/05/80-06/05/80	0	1	
GRSM0244	No	00920	MAGNESIUM (MG/L AS CACO3)	10/10/67-12/06/68	1	15	
GRSM0003	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/16/93-08/16/93	0	1	
GRSM0020	Yes	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/16/93-08/16/93	0	1	
GRSM0027	Yes	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/17/80-08/04/82	2	2	
GRSM0069	Yes	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/16/93-08/16/93	0	2	
GRSM0230	Yes	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/05/80-06/05/80	0	1	
GRSM0256	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	02/23/82-08/15/85	3	2	
GRSM0010	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/56-05/09/72	15	72	
GRSM0031	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/23/73-09/06/73	0	4	
GRSM0041	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/18/82-10/18/82	0	1	
GRSM0050	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/20/84-11/20/84	0	1	
GRSM0052	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/20/84-11/20/84	0	1	
GRSM0056	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/21/68-05/24/72	4	11	
GRSM0061	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/82-10/19/82	0	1	
GRSM0071	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/25/85-07/11/85	0	4	
GRSM0072	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/13/83-05/08/85	1	24	
GRSM0074	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/06/56-04/13/62	5	8	
GRSM0076	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/68-09/25/68	0	1	
GRSM0077	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/18/82-10/18/82	0	1	
GRSM0080	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/20/84-11/20/84	0	1	
GRSM0081	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/25/85-07/08/85	0	4	
GRSM0086	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/20/85-07/03/85	0	4	
GRSM0091	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/23/73-08/08/74	0	2	
GRSM0095	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/03/85-07/03/85	0	1	
GRSM0099	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/22/85-07/16/85	0	2	
GRSM0100	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/08/85-07/08/85	0	1	
GRSM0106	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/25/85-07/16/85	0	4	
GRSM0107	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/24/68-09/24/68	0	1	
GRSM0120	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/24/68-09/24/68	0	1	
GRSM0125	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/91-10/29/91	0	1	
GRSM0129	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/91-10/29/91	0	1	
GRSM0132	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/91-10/31/91	0	1	
GRSM0135	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/30/91-10/30/91	0	1	
GRSM0140	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/30/91-10/30/91	0	1	
GRSM0144	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/68-09/25/68	0	1	
GRSM0147	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/91-10/29/91	0	1	
GRSM0149	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/91-10/29/91	0	1	
GRSM0152	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/10/85-07/10/85	0	1	
GRSM0153	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/30/91-10/30/91	0	1	
GRSM0154	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/91-10/31/91	0	1	
GRSM0156	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/91-10/31/91	0	1	
GRSM0158	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/91-10/31/91	0	1	
GRSM0159	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/91-10/31/91	0	1	
GRSM0161	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/68-09/25/68	0	1	
GRSM0162	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/91-10/31/91	0	1	
GRSM0164	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/68-09/25/68	0	1	
GRSM0165	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/91-10/31/91	0	1	
GRSM0170	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/91-10/29/91	0	1	
GRSM0172	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/91-10/31/91	0	1	
GRSM0174	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/91-10/29/91	0	1	
GRSM0176	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/30/91-10/30/91	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0177	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/20/84-11/20/84	0	1	
GRSM0178	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/24/68-09/24/68	0	1	
GRSM0179	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/30/91-10/30/91	0	1	
GRSM0180	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/30/91-10/30/91	0	1	
GRSM0182	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/10/63-11/22/94	31	58	S
GRSM0183	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/91-10/29/91	0	1	
GRSM0184	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/18/62-05/11/93	30	123	T,S
GRSM0186	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/23/76-04/23/76	0	1	
GRSM0190	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/27/85-07/10/85	0	4	
GRSM0191	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/20/84-11/20/84	0	1	
GRSM0194	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/25/85-07/08/85	0	4	
GRSM0195	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/16/85-07/16/85	0	1	
GRSM0206	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/08/85-07/08/85	0	1	
GRSM0208	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/29/84-11/29/84	0	1	
GRSM0213	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/28/85-07/16/85	0	4	
GRSM0214	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/05/78-05/05/78	0	1	
GRSM0216	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/04/78-05/04/78	0	1	
GRSM0217	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/06/78-05/06/78	0	1	
GRSM0221	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/68-09/25/68	0	1	
GRSM0223	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/06/67-08/01/68	0	4	
GRSM0227	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/68-09/25/68	0	1	
GRSM0229	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/13/83-05/15/85	1	51	
GRSM0237	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/28/85-07/10/85	0	4	
GRSM0240	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/24/68-09/24/68	0	1	
GRSM0249	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/17/57-03/28/73	15	74	
GRSM0255	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/07/85-07/07/85	0	1	
GRSM0259	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/24/85-07/07/85	0	4	
GRSM0009	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/08/75-12/21/89	14	11	
GRSM0011	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/29/68-12/08/70	2	6	
GRSM0014	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/05/87-08/05/87	0	1	
GRSM0017	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/05/87-08/05/87	0	1	
GRSM0021	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/03/66-01/31/67	0	9	
GRSM0025	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/05/87-08/05/87	0	1	
GRSM0028	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/05/87-08/05/87	0	1	
GRSM0036	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/04/74-01/17/77	2	37	
GRSM0037	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/17/77-05/17/77	0	1	
GRSM0048	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/03/74-01/17/77	2	36	
GRSM0054	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/15/77-10/24/78	1	8	
GRSM0055	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/15/77-10/18/77	0	4	
GRSM0057	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/24/66-02/26/79	12	49	
GRSM0064	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/05/87-08/05/87	0	1	
GRSM0070	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/29/68-06/18/70	1	5	
GRSM0073	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/29/68-06/18/70	1	5	
GRSM0078	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/28/74-01/24/77	2	37	
GRSM0084	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/30/68-03/24/69	0	8	
GRSM0087	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/23/67-03/24/69	2	17	
GRSM0094	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/26/82-03/26/82	0	1	
GRSM0102	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/30/68-03/24/69	0	8	
GRSM0103	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/01/91-08/01/91	0	1	
GRSM0105	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/30/68-03/24/69	0	9	
GRSM0108	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/26/82-03/26/82	0	1	
GRSM0110	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	11/12/81-03/26/82	0	3	
GRSM0111	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/01/81-12/01/81	0	3	
GRSM0112	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	11/12/81-08/01/82	0	130	
GRSM0115	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/11/82-08/11/82	0	1	
GRSM0134	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/26/82-03/26/82	0	1	
GRSM0136	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	11/12/81-11/12/81	0	1	
GRSM0137	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/02/81-04/22/82	0	3	
GRSM0138	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	11/12/81-03/24/82	0	3	
GRSM0139	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/22/82-03/22/82	0	1	
GRSM0142	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/02/81-12/02/81	0	1	
GRSM0143	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/22/82-03/22/82	0	1	
GRSM0145	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/24/82-03/24/82	0	1	
GRSM0148	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/24/82-03/24/82	0	1	
GRSM0150	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/26/82-03/26/82	0	1	
GRSM0160	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/20/82-04/20/82	0	1	
GRSM0163	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/23/82-04/20/82	0	2	
GRSM0167	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/21/82-04/21/82	0	1	
GRSM0173	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/25/82-03/25/82	0	1	
GRSM0175	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/02/81-03/25/82	0	2	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0185	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/20/77-03/15/89	11	2	
GRSM0202	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/08/68-03/18/75	7	18	
GRSM0222	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/08/68-07/29/68	0	5	
GRSM0230	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/05/80-06/05/80	0	1	
GRSM0250	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/21/75-02/08/77	1	17	
GRSM0251	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/21/75-09/07/76	0	13	
GRSM0256	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/20/77-05/20/77	0	1	
GRSM0258	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	11/03/71-11/03/71	0	1	
GRSM0262	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/23/77-10/11/78	1	8	
GRSM0009	No	00929	SODIUM, TOTAL (MG/L AS NA)	02/15/77-12/21/89	12	5	
GRSM0014	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	08/05/87-08/05/87	0	1	
GRSM0017	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	08/05/87-08/05/87	0	1	
GRSM0021	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	05/03/66-01/31/67	0	9	
GRSM0025	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	08/05/87-08/05/87	0	1	
GRSM0028	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	08/05/87-08/05/87	0	1	
GRSM0036	No	00929	SODIUM, TOTAL (MG/L AS NA)	02/04/74-01/17/77	2	36	
GRSM0048	No	00929	SODIUM, TOTAL (MG/L AS NA)	03/03/74-01/17/77	2	36	
GRSM0054	No	00929	SODIUM, TOTAL (MG/L AS NA)	02/15/77-10/24/78	1	8	
GRSM0055	No	00929	SODIUM, TOTAL (MG/L AS NA)	02/15/77-10/18/77	0	4	
GRSM0057	No	00929	SODIUM, TOTAL (MG/L AS NA)	01/28/74-02/26/79	5	46	
GRSM0064	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	08/05/87-08/05/87	0	1	
GRSM0078	No	00929	SODIUM, TOTAL (MG/L AS NA)	01/28/74-01/24/77	2	37	
GRSM0084	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	04/30/68-03/24/69	0	7	
GRSM0087	No	00929	SODIUM, TOTAL (MG/L AS NA)	01/23/67-03/24/69	2	17	
GRSM0094	No	00929	SODIUM, TOTAL (MG/L AS NA)	03/26/82-03/26/82	0	1	
GRSM0102	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	04/30/68-03/24/69	0	7	
GRSM0105	No	00929	SODIUM, TOTAL (MG/L AS NA)	04/30/68-03/24/69	0	8	
GRSM0108	No	00929	SODIUM, TOTAL (MG/L AS NA)	03/26/82-03/26/82	0	1	
GRSM0110	No	00929	SODIUM, TOTAL (MG/L AS NA)	11/12/81-03/26/82	0	3	
GRSM0111	No	00929	SODIUM, TOTAL (MG/L AS NA)	12/01/81-12/01/81	0	3	
GRSM0112	No	00929	SODIUM, TOTAL (MG/L AS NA)	11/12/81-08/01/82	0	130	
GRSM0115	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	08/11/82-08/11/82	0	1	
GRSM0134	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	03/26/82-03/26/82	0	1	
GRSM0136	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	11/12/81-11/12/81	0	1	
GRSM0137	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	12/02/81-04/22/82	0	3	
GRSM0138	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	11/12/81-03/24/82	0	3	
GRSM0139	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	03/22/82-03/22/82	0	1	
GRSM0142	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	12/02/81-12/02/81	0	1	
GRSM0143	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	03/22/82-03/22/82	0	1	
GRSM0145	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	03/24/82-03/24/82	0	1	
GRSM0148	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	03/24/82-03/24/82	0	1	
GRSM0150	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	03/26/82-03/26/82	0	1	
GRSM0160	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	04/20/82-04/20/82	0	1	
GRSM0163	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	03/23/82-04/20/82	0	2	
GRSM0167	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	04/21/82-04/21/82	0	1	
GRSM0173	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	03/25/82-03/25/82	0	1	
GRSM0175	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	12/02/81-03/25/82	0	2	
GRSM0185	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	05/20/77-03/15/89	11	2	
GRSM0202	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	01/08/68-03/18/75	7	19	
GRSM0222	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	01/08/68-07/29/68	0	5	
GRSM0230	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	06/05/80-06/05/80	0	1	
GRSM0244	No	00929	SODIUM, TOTAL (MG/L AS NA)	10/10/67-12/06/68	1	15	
GRSM0250	No	00929	SODIUM, TOTAL (MG/L AS NA)	10/21/75-02/08/77	1	17	
GRSM0251	No	00929	SODIUM, TOTAL (MG/L AS NA)	10/21/75-09/07/76	0	13	
GRSM0256	No	00929	SODIUM, TOTAL (MG/L AS NA)	05/20/77-05/20/77	0	1	
GRSM0262	No	00929	SODIUM, TOTAL (MG/L AS NA)	02/23/77-10/11/78	1	8	
GRSM0010	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/19/56-05/09/72	15	72	
GRSM0031	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	01/23/73-09/06/73	0	4	
GRSM0041	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/18/82-10/18/82	0	1	
GRSM0050	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/20/84-11/20/84	0	1	
GRSM0052	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/20/84-11/20/84	0	1	
GRSM0056	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/21/68-05/24/72	4	11	
GRSM0061	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/19/82-10/19/82	0	1	
GRSM0071	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/25/85-07/11/85	0	4	
GRSM0072	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	12/13/83-05/08/85	1	24	
GRSM0074	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/06/56-04/13/62	5	8	
GRSM0076	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/25/68-09/25/68	0	1	
GRSM0077	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/18/82-10/18/82	0	1	
GRSM0080	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/20/84-11/20/84	0	1	
GRSM0081	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/25/85-07/08/85	0	4	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0086	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/20/85-07/03/85	0	4	
GRSM0091	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/23/73-08/08/74	0	2	
GRSM0095	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/03/85-07/03/85	0	1	
GRSM0099	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/22/85-07/16/85	0	2	
GRSM0100	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/08/85-07/08/85	0	1	
GRSM0106	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/25/85-07/16/85	0	4	
GRSM0107	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/24/68-09/24/68	0	1	
GRSM0120	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/24/68-09/24/68	0	1	
GRSM0125	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/91-10/29/91	0	1	
GRSM0129	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/91-10/29/91	0	1	
GRSM0132	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/91-10/31/91	0	1	
GRSM0135	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/30/91-10/30/91	0	1	
GRSM0140	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/30/91-10/30/91	0	1	
GRSM0144	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/25/68-09/25/68	0	1	
GRSM0147	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/91-10/29/91	0	1	
GRSM0149	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/91-10/29/91	0	1	
GRSM0152	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/10/85-07/10/85	0	1	
GRSM0153	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/30/91-10/30/91	0	1	
GRSM0154	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/91-10/31/91	0	1	
GRSM0156	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/91-10/31/91	0	1	
GRSM0158	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/91-10/31/91	0	1	
GRSM0159	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/91-10/31/91	0	1	
GRSM0161	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/25/68-09/25/68	0	1	
GRSM0162	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/91-10/31/91	0	1	
GRSM0164	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/25/68-09/25/68	0	1	
GRSM0165	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/91-10/31/91	0	1	
GRSM0170	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/91-10/29/91	0	1	
GRSM0172	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/91-10/31/91	0	1	
GRSM0174	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/91-10/29/91	0	1	
GRSM0176	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/30/91-10/30/91	0	1	
GRSM0177	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/20/84-11/20/84	0	1	
GRSM0178	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/24/68-09/24/68	0	1	
GRSM0179	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/30/91-10/30/91	0	1	
GRSM0180	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/30/91-10/30/91	0	1	
GRSM0182	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/10/63-11/22/94	31	58	S
GRSM0183	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/91-10/29/91	0	1	
GRSM0184	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/18/62-05/11/93	30	123	T,S
GRSM0186	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/23/76-04/23/76	0	1	
GRSM0190	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/27/85-07/10/85	0	4	
GRSM0191	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/20/84-11/20/84	0	1	
GRSM0194	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/25/85-07/08/85	0	4	
GRSM0195	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/16/85-07/16/85	0	1	
GRSM0206	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/08/85-07/08/85	0	1	
GRSM0208	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/29/84-11/29/84	0	1	
GRSM0213	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/28/85-07/16/85	0	4	
GRSM0214	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/05/78-05/05/78	0	1	
GRSM0216	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/04/78-05/04/78	0	1	
GRSM0217	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/06/78-05/06/78	0	1	
GRSM0221	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/25/68-09/25/68	0	1	
GRSM0223	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/06/67-08/01/68	0	4	
GRSM0227	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/25/68-09/25/68	0	1	
GRSM0229	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	12/13/83-05/15/85	1	51	
GRSM0237	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/28/85-07/10/85	0	4	
GRSM0240	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/24/68-09/24/68	0	1	
GRSM0249	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/17/57-03/28/73	15	74	
GRSM0255	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/07/85-07/07/85	0	1	
GRSM0259	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/24/85-07/07/85	0	4	
GRSM0010	No	00931	SODIUM ADSORPTION RATIO	11/06/70-05/09/72	1	10	
GRSM0031	No	00931	SODIUM ADSORPTION RATIO	01/23/73-09/06/73	0	4	
GRSM0056	No	00931	SODIUM ADSORPTION RATIO	05/21/68-05/24/72	4	11	
GRSM0076	No	00931	SODIUM ADSORPTION RATIO	09/25/68-09/25/68	0	1	
GRSM0091	Yes	00931	SODIUM ADSORPTION RATIO	10/23/73-08/08/74	0	2	
GRSM0107	Yes	00931	SODIUM ADSORPTION RATIO	09/24/68-09/24/68	0	1	
GRSM0120	Yes	00931	SODIUM ADSORPTION RATIO	09/24/68-09/24/68	0	1	
GRSM0144	Yes	00931	SODIUM ADSORPTION RATIO	09/25/68-09/25/68	0	1	
GRSM0161	Yes	00931	SODIUM ADSORPTION RATIO	09/25/68-09/25/68	0	1	
GRSM0164	Yes	00931	SODIUM ADSORPTION RATIO	09/25/68-09/25/68	0	1	
GRSM0178	Yes	00931	SODIUM ADSORPTION RATIO	09/24/68-09/24/68	0	1	
GRSM0182	Yes	00931	SODIUM ADSORPTION RATIO	08/10/63-12/10/85	22	16	
GRSM0184	Yes	00931	SODIUM ADSORPTION RATIO	11/01/67-02/11/86	18	72	
GRSM0186	Yes	00931	SODIUM ADSORPTION RATIO	04/23/76-04/23/76	0	1	
GRSM0214	No	00931	SODIUM ADSORPTION RATIO	05/05/78-05/05/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0216	No	00931	SODIUM ADSORPTION RATIO	05/04/78-05/04/78	0	1	
GRSM0217	No	00931	SODIUM ADSORPTION RATIO	05/06/78-05/06/78	0	1	
GRSM0221	Yes	00931	SODIUM ADSORPTION RATIO	09/25/68-09/25/68	0	1	
GRSM0223	Yes	00931	SODIUM ADSORPTION RATIO	09/06/67-08/01/68	0	4	
GRSM0227	No	00931	SODIUM ADSORPTION RATIO	09/25/68-09/25/68	0	1	
GRSM0240	Yes	00931	SODIUM ADSORPTION RATIO	09/24/68-09/24/68	0	1	
GRSM0249	No	00931	SODIUM ADSORPTION RATIO	06/27/68-03/28/73	4	15	
GRSM0010	No	00932	SODIUM, PERCENT	11/06/70-05/09/72	1	10	
GRSM0031	No	00932	SODIUM, PERCENT	01/23/73-09/06/73	0	4	
GRSM0056	No	00932	SODIUM, PERCENT	05/21/68-05/24/72	4	11	
GRSM0076	No	00932	SODIUM, PERCENT	09/25/68-09/25/68	0	1	
GRSM0091	Yes	00932	SODIUM, PERCENT	10/23/73-08/08/74	0	2	
GRSM0107	Yes	00932	SODIUM, PERCENT	09/24/68-09/24/68	0	1	
GRSM0120	Yes	00932	SODIUM, PERCENT	09/24/68-09/24/68	0	1	
GRSM0144	Yes	00932	SODIUM, PERCENT	09/25/68-09/25/68	0	1	
GRSM0161	Yes	00932	SODIUM, PERCENT	09/25/68-09/25/68	0	1	
GRSM0164	Yes	00932	SODIUM, PERCENT	09/25/68-09/25/68	0	1	
GRSM0178	Yes	00932	SODIUM, PERCENT	09/24/68-09/24/68	0	1	
GRSM0182	Yes	00932	SODIUM, PERCENT	08/10/63-12/10/85	22	16	
GRSM0184	Yes	00932	SODIUM, PERCENT	11/01/67-02/11/86	18	72	
GRSM0186	Yes	00932	SODIUM, PERCENT	04/23/76-04/23/76	0	1	
GRSM0214	No	00932	SODIUM, PERCENT	05/05/78-05/05/78	0	1	
GRSM0216	No	00932	SODIUM, PERCENT	05/04/78-05/04/78	0	1	
GRSM0217	No	00932	SODIUM, PERCENT	05/06/78-05/06/78	0	1	
GRSM0221	Yes	00932	SODIUM, PERCENT	09/25/68-09/25/68	0	1	
GRSM0223	Yes	00932	SODIUM, PERCENT	09/06/67-08/01/68	0	4	
GRSM0227	No	00932	SODIUM, PERCENT	09/25/68-09/25/68	0	1	
GRSM0240	Yes	00932	SODIUM, PERCENT	09/24/68-09/24/68	0	1	
GRSM0249	No	00932	SODIUM, PERCENT	06/27/68-03/28/73	4	15	
GRSM0184	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	12/04/79-03/21/80	0	3	
GRSM0230	Yes	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	06/05/80-06/05/80	0	1	
GRSM0010	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/19/56-05/09/72	15	72	
GRSM0031	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	01/23/73-09/06/73	0	4	
GRSM0041	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/18/82-10/18/82	0	1	
GRSM0050	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/20/84-11/20/84	0	1	
GRSM0052	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/20/84-11/20/84	0	1	
GRSM0056	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/21/68-05/24/72	4	11	
GRSM0061	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/19/82-10/19/82	0	1	
GRSM0071	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/25/85-07/11/85	0	4	
GRSM0072	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/13/83-05/08/85	1	24	
GRSM0074	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/06/56-04/13/62	5	8	
GRSM0076	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/25/68-09/25/68	0	1	
GRSM0077	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/18/82-10/18/82	0	1	
GRSM0080	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/20/84-11/20/84	0	1	
GRSM0081	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/25/85-07/08/85	0	4	
GRSM0086	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/20/85-07/03/85	0	4	
GRSM0091	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/23/73-08/08/74	0	2	
GRSM0095	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/03/85-07/03/85	0	1	
GRSM0099	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/22/85-07/16/85	0	2	
GRSM0100	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/08/85-07/08/85	0	1	
GRSM0106	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/25/85-07/16/85	0	4	
GRSM0107	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/24/68-09/24/68	0	1	
GRSM0120	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/24/68-09/24/68	0	1	
GRSM0125	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/91-10/29/91	0	1	
GRSM0129	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/91-10/29/91	0	1	
GRSM0132	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/91-10/31/91	0	1	
GRSM0135	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/30/91-10/30/91	0	1	
GRSM0140	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/30/91-10/30/91	0	1	
GRSM0144	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/25/68-09/25/68	0	1	
GRSM0147	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/91-10/29/91	0	1	
GRSM0149	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/91-10/29/91	0	1	
GRSM0152	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/10/85-07/10/85	0	1	
GRSM0153	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/30/91-10/30/91	0	1	
GRSM0154	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/91-10/31/91	0	1	
GRSM0156	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/91-10/31/91	0	1	
GRSM0158	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/91-10/31/91	0	1	
GRSM0159	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/91-10/31/91	0	1	
GRSM0161	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/25/68-09/25/68	0	1	
GRSM0162	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/91-10/31/91	0	1	
GRSM0164	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/25/68-09/25/68	0	1	
GRSM0165	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/91-10/31/91	0	1	
GRSM0170	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/91-10/29/91	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0172	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/91-10/31/91	0	1	
GRSM0174	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/91-10/29/91	0	1	
GRSM0176	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/30/91-10/30/91	0	1	
GRSM0177	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/20/84-11/20/84	0	1	
GRSM0178	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/24/68-09/24/68	0	1	
GRSM0179	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/30/91-10/30/91	0	1	
GRSM0180	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/30/91-10/30/91	0	1	
GRSM0182	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/10/63-11/22/94	31	58	S
GRSM0183	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/91-10/29/91	0	1	
GRSM0184	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/18/62-05/11/93	30	123	T,S
GRSM0186	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/23/76-04/23/76	0	1	
GRSM0190	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/27/85-07/10/85	0	4	
GRSM0191	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/20/84-11/20/84	0	1	
GRSM0194	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/25/85-07/08/85	0	4	
GRSM0195	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/16/85-07/16/85	0	1	
GRSM0206	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/08/85-07/08/85	0	1	
GRSM0208	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/29/84-11/29/84	0	1	
GRSM0213	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/28/85-07/16/85	0	4	
GRSM0214	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/05/78-05/05/78	0	1	
GRSM0216	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/04/78-05/04/78	0	1	
GRSM0217	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/06/78-05/06/78	0	1	
GRSM0221	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/25/68-09/25/68	0	1	
GRSM0223	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/06/67-08/01/68	0	4	
GRSM0227	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/25/68-09/25/68	0	1	
GRSM0229	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/13/83-05/15/85	1	51	
GRSM0237	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/28/85-07/10/85	0	4	
GRSM0240	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/24/68-09/24/68	0	1	
GRSM0249	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/17/57-03/28/73	15	74	
GRSM0255	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/07/85-07/07/85	0	1	
GRSM0259	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/24/85-07/07/85	0	4	
GRSM0014	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	08/05/87-08/05/87	0	1	
GRSM0017	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	08/05/87-08/05/87	0	1	
GRSM0021	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	05/03/66-01/31/67	0	9	
GRSM0025	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	08/05/87-08/05/87	0	1	
GRSM0028	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	08/05/87-08/05/87	0	1	
GRSM0036	No	00937	POTASSIUM, TOTAL MG/L AS K)	02/04/74-01/17/77	2	36	
GRSM0048	No	00937	POTASSIUM, TOTAL MG/L AS K)	03/03/74-01/17/77	2	36	
GRSM0054	No	00937	POTASSIUM, TOTAL MG/L AS K)	02/15/77-10/24/78	1	8	
GRSM0057	No	00937	POTASSIUM, TOTAL MG/L AS K)	01/28/74-02/26/79	5	46	
GRSM0064	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	08/05/87-08/05/87	0	1	
GRSM0078	No	00937	POTASSIUM, TOTAL MG/L AS K)	01/28/74-01/24/77	2	37	
GRSM0084	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	04/30/68-03/24/69	0	7	
GRSM0087	No	00937	POTASSIUM, TOTAL MG/L AS K)	01/23/67-03/24/69	2	17	
GRSM0094	No	00937	POTASSIUM, TOTAL MG/L AS K)	03/26/82-03/26/82	0	1	
GRSM0102	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	04/30/68-03/24/69	0	7	
GRSM0105	No	00937	POTASSIUM, TOTAL MG/L AS K)	04/30/68-03/24/69	0	8	
GRSM0108	No	00937	POTASSIUM, TOTAL MG/L AS K)	03/26/82-03/26/82	0	1	
GRSM0110	No	00937	POTASSIUM, TOTAL MG/L AS K)	11/12/81-03/26/82	0	3	
GRSM0111	No	00937	POTASSIUM, TOTAL MG/L AS K)	12/01/81-12/01/81	0	3	
GRSM0112	No	00937	POTASSIUM, TOTAL MG/L AS K)	11/12/81-08/01/82	0	130	
GRSM0115	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	08/11/82-08/11/82	0	1	
GRSM0134	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	03/26/82-03/26/82	0	1	
GRSM0136	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	11/12/81-11/12/81	0	1	
GRSM0137	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	12/02/81-04/22/82	0	3	
GRSM0138	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	11/12/81-03/24/82	0	3	
GRSM0139	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	03/22/82-03/22/82	0	1	
GRSM0142	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	12/02/81-12/02/81	0	1	
GRSM0143	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	03/22/82-03/22/82	0	1	
GRSM0145	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	03/24/82-03/24/82	0	1	
GRSM0148	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	03/24/82-03/24/82	0	1	
GRSM0150	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	03/26/82-03/26/82	0	1	
GRSM0160	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	04/20/82-04/20/82	0	1	
GRSM0163	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	03/23/82-04/20/82	0	2	
GRSM0167	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	04/21/82-04/21/82	0	1	
GRSM0173	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	03/25/82-03/25/82	0	1	
GRSM0175	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	12/02/81-03/25/82	0	2	
GRSM0185	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	03/15/89-03/15/89	0	1	
GRSM0202	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	01/08/68-03/18/75	7	19	
GRSM0222	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	01/08/68-07/29/68	0	5	
GRSM0244	No	00937	POTASSIUM, TOTAL MG/L AS K)	10/10/67-12/06/68	1	15	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0250	No	00937	POTASSIUM, TOTAL MG/L AS K)	10/21/75-02/08/77	1	17	
GRSM0251	No	00937	POTASSIUM, TOTAL MG/L AS K)	10/21/75-09/07/76	0	13	
GRSM0262	No	00937	POTASSIUM, TOTAL MG/L AS K)	02/23/77-10/11/78	1	8	
GRSM0009	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/23/75-08/09/77	1	19	
GRSM0010	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/19/56-05/09/72	15	72	
GRSM0014	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	08/05/87-08/05/87	0	1	
GRSM0017	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	08/05/87-08/05/87	0	1	
GRSM0021	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	05/03/66-01/31/67	0	9	
GRSM0025	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	08/05/87-08/05/87	0	1	
GRSM0028	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	08/05/87-08/05/87	0	1	
GRSM0031	No	00940	CHLORIDE,TOTAL IN WATER MG/L	01/23/73-09/06/73	0	4	
GRSM0036	No	00940	CHLORIDE,TOTAL IN WATER MG/L	02/04/74-01/17/77	2	38	
GRSM0048	No	00940	CHLORIDE,TOTAL IN WATER MG/L	03/03/74-01/17/77	2	36	
GRSM0054	No	00940	CHLORIDE,TOTAL IN WATER MG/L	02/15/77-10/24/78	1	8	
GRSM0055	No	00940	CHLORIDE,TOTAL IN WATER MG/L	02/15/77-04/25/78	1	6	
GRSM0056	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/21/68-05/24/72	4	11	
GRSM0057	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/66-06/17/80	14	63	
GRSM0064	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	08/05/87-08/05/87	0	1	
GRSM0070	No	00940	CHLORIDE,TOTAL IN WATER MG/L	01/29/75-01/29/75	0	1	
GRSM0073	No	00940	CHLORIDE,TOTAL IN WATER MG/L	01/29/75-01/29/75	0	1	
GRSM0074	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	11/06/56-04/13/62	5	8	
GRSM0076	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/25/68-09/25/68	0	1	
GRSM0078	No	00940	CHLORIDE,TOTAL IN WATER MG/L	01/28/74-01/24/77	2	37	
GRSM0084	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	04/30/68-03/24/69	0	8	
GRSM0085	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	01/29/75-01/29/75	0	1	
GRSM0087	No	00940	CHLORIDE,TOTAL IN WATER MG/L	01/23/67-03/24/69	2	17	
GRSM0091	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/23/73-08/08/74	0	2	
GRSM0094	No	00940	CHLORIDE,TOTAL IN WATER MG/L	03/26/82-03/26/82	0	1	
GRSM0101	No	00940	CHLORIDE,TOTAL IN WATER MG/L	01/29/75-01/29/75	0	1	
GRSM0102	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	04/30/68-03/24/69	0	8	
GRSM0105	No	00940	CHLORIDE,TOTAL IN WATER MG/L	04/30/68-03/24/69	0	9	
GRSM0107	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/24/68-09/24/68	0	1	
GRSM0108	No	00940	CHLORIDE,TOTAL IN WATER MG/L	03/26/82-03/26/82	0	1	
GRSM0109	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	01/29/75-01/29/75	0	1	
GRSM0110	No	00940	CHLORIDE,TOTAL IN WATER MG/L	11/12/81-03/26/82	0	3	
GRSM0111	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/29/82-07/29/82	0	1	
GRSM0112	No	00940	CHLORIDE,TOTAL IN WATER MG/L	11/12/81-08/01/82	0	126	
GRSM0115	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	08/11/82-08/11/82	0	1	
GRSM0120	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/24/68-09/24/68	0	1	
GRSM0125	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/29/91-10/29/91	0	1	
GRSM0129	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/29/91-10/29/91	0	1	
GRSM0132	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/31/91-10/31/91	0	1	
GRSM0134	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	03/26/82-03/26/82	0	1	
GRSM0135	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/91-10/30/91	0	1	
GRSM0136	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	11/12/81-11/12/81	0	1	
GRSM0137	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	12/02/81-04/22/82	0	3	
GRSM0138	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	11/12/81-03/24/82	0	3	
GRSM0139	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	03/22/82-03/22/82	0	1	
GRSM0140	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/91-10/30/91	0	1	
GRSM0142	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	12/02/81-12/02/81	0	1	
GRSM0143	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	03/22/82-03/22/82	0	1	
GRSM0144	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/25/68-09/25/68	0	1	
GRSM0145	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	03/22/82-03/22/82	0	1	
GRSM0146	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	03/24/82-03/24/82	0	1	
GRSM0147	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/29/91-10/29/91	0	1	
GRSM0148	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	03/24/82-03/24/82	0	1	
GRSM0149	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/29/91-10/29/91	0	1	
GRSM0150	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	03/26/82-03/26/82	0	1	
GRSM0153	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/91-10/30/91	0	1	
GRSM0154	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/31/91-10/31/91	0	1	
GRSM0156	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/31/91-10/31/91	0	1	
GRSM0158	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/31/91-10/31/91	0	1	
GRSM0159	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/31/91-10/31/91	0	1	
GRSM0160	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	04/20/82-04/20/82	0	1	
GRSM0161	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/25/68-09/25/68	0	1	
GRSM0162	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/31/91-10/31/91	0	1	
GRSM0163	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	03/23/82-04/20/82	0	2	
GRSM0164	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/25/68-09/25/68	0	1	
GRSM0165	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/31/91-10/31/91	0	1	
GRSM0167	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	04/21/82-04/21/82	0	1	
GRSM0168	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	04/21/82-04/21/82	0	1	
GRSM0170	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/29/91-10/29/91	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0172	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/31/91-10/31/91	0	1	
GRSM0173	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	03/25/82-03/25/82	0	1	
GRSM0174	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/29/91-10/29/91	0	1	
GRSM0175	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	12/02/81-03/25/82	0	2	
GRSM0176	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/91-10/30/91	0	1	
GRSM0178	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/24/68-09/24/68	0	1	
GRSM0179	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/91-10/30/91	0	1	
GRSM0180	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/91-10/30/91	0	1	
GRSM0182	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	08/10/63-11/22/94	31	58	S
GRSM0183	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/29/91-10/29/91	0	1	
GRSM0184	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/18/62-05/11/93	30	122	T,S
GRSM0186	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	04/23/76-04/23/76	0	1	
GRSM0202	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	01/08/68-03/18/75	7	19	
GRSM0214	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/05/78-05/05/78	0	1	
GRSM0216	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/78-05/04/78	0	1	
GRSM0217	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/06/78-05/06/78	0	1	
GRSM0221	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/25/68-09/25/68	0	1	
GRSM0222	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	01/08/68-07/29/68	0	6	
GRSM0223	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/06/67-08/01/68	0	4	
GRSM0227	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/25/68-09/25/68	0	1	
GRSM0240	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/24/68-09/24/68	0	1	
GRSM0244	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/10/67-12/06/68	1	15	
GRSM0249	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/17/57-03/28/73	15	74	
GRSM0250	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/21/75-02/08/77	1	17	
GRSM0251	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/21/75-09/07/76	0	13	
GRSM0258	No	00940	CHLORIDE,TOTAL IN WATER MG/L	01/07/65-10/26/65	0	8	
GRSM0261	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/02/64-08/22/67	3	40	
GRSM0262	No	00940	CHLORIDE,TOTAL IN WATER MG/L	02/23/77-10/11/78	1	8	
GRSM0050	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/20/84-11/20/84	0	1	
GRSM0052	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/20/84-11/20/84	0	1	
GRSM0071	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	03/25/85-07/11/85	0	4	
GRSM0080	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/20/84-11/20/84	0	1	
GRSM0081	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	03/25/85-07/08/85	0	4	
GRSM0086	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	03/20/85-07/03/85	0	4	
GRSM0095	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	07/03/85-07/03/85	0	1	
GRSM0099	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	04/22/85-07/16/85	0	2	
GRSM0100	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	07/08/85-07/08/85	0	1	
GRSM0106	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	03/25/85-07/16/85	0	4	
GRSM0152	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	07/10/85-07/10/85	0	1	
GRSM0177	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/20/84-11/20/84	0	1	
GRSM0190	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	03/27/85-07/10/85	0	4	
GRSM0191	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/20/84-11/20/84	0	1	
GRSM0194	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	03/25/85-07/08/85	0	4	
GRSM0195	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	07/16/85-07/16/85	0	1	
GRSM0206	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	07/08/85-07/08/85	0	1	
GRSM0208	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/29/84-11/29/84	0	1	
GRSM0213	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	03/28/85-07/16/85	0	4	
GRSM0237	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	03/28/85-07/10/85	0	4	
GRSM0255	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	07/07/85-07/07/85	0	1	
GRSM0259	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	03/24/85-07/07/85	0	4	
GRSM0009	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/23/75-08/09/77	1	18	
GRSM0010	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/19/56-05/09/72	15	72	
GRSM0011	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/29/68-07/28/71	2	8	
GRSM0014	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	08/05/87-08/05/87	0	1	
GRSM0017	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	08/05/87-08/05/87	0	1	
GRSM0021	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	05/03/66-01/31/67	0	9	
GRSM0025	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	08/05/87-08/05/87	0	1	
GRSM0028	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	08/05/87-08/05/87	0	1	
GRSM0031	No	00945	SULFATE, TOTAL (MG/L AS SO4)	01/23/73-09/06/73	0	4	
GRSM0036	No	00945	SULFATE, TOTAL (MG/L AS SO4)	02/04/74-01/17/77	2	37	
GRSM0037	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/20/68-07/28/71	3	9	
GRSM0048	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/03/74-01/17/77	2	36	
GRSM0054	No	00945	SULFATE, TOTAL (MG/L AS SO4)	02/15/77-10/24/78	1	8	
GRSM0055	No	00945	SULFATE, TOTAL (MG/L AS SO4)	02/15/77-08/29/78	1	6	
GRSM0056	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/21/68-05/24/72	4	11	
GRSM0057	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/06/66-06/17/80	14	59	
GRSM0064	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	08/05/87-08/05/87	0	1	
GRSM0074	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	11/06/56-04/13/62	5	8	
GRSM0076	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/25/68-09/25/68	0	1	
GRSM0078	No	00945	SULFATE, TOTAL (MG/L AS SO4)	01/28/74-01/24/77	2	37	
GRSM0084	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	04/30/68-03/24/69	0	8	
GRSM0087	No	00945	SULFATE, TOTAL (MG/L AS SO4)	01/23/67-03/24/69	2	17	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0091	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/23/73-08/08/74	0	2	
GRSM0094	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/26/82-03/26/82	0	1	
GRSM0102	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	04/30/68-03/24/69	0	8	
GRSM0103	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/23/91-09/30/91	0	3	
GRSM0105	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/30/68-03/24/69	0	9	
GRSM0107	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/24/68-09/24/68	0	1	
GRSM0108	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/26/82-03/26/82	0	1	
GRSM0110	No	00945	SULFATE, TOTAL (MG/L AS SO4)	12/02/81-03/26/82	0	2	
GRSM0111	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/29/82-07/29/82	0	1	
GRSM0112	No	00945	SULFATE, TOTAL (MG/L AS SO4)	11/30/81-08/01/82	0	140	
GRSM0115	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	08/11/82-08/11/82	0	1	
GRSM0120	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/24/68-09/24/68	0	1	
GRSM0125	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/29/91-10/29/91	0	1	
GRSM0129	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/29/91-10/29/91	0	1	
GRSM0132	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/91-10/31/91	0	1	
GRSM0134	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	03/26/82-03/26/82	0	1	
GRSM0135	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/91-10/30/91	0	1	
GRSM0137	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	12/02/81-04/22/82	0	3	
GRSM0138	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	12/02/81-03/24/82	0	2	
GRSM0139	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	03/22/82-03/22/82	0	1	
GRSM0140	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/91-10/30/91	0	1	
GRSM0142	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	12/02/81-12/02/81	0	1	
GRSM0143	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	03/22/82-03/22/82	0	1	
GRSM0144	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/25/68-09/25/68	0	1	
GRSM0145	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	03/24/82-03/24/82	0	1	
GRSM0147	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/29/91-10/29/91	0	1	
GRSM0148	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	03/24/82-03/24/82	0	1	
GRSM0149	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/29/91-10/29/91	0	1	
GRSM0150	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	03/26/82-03/26/82	0	1	
GRSM0153	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/91-10/30/91	0	1	
GRSM0154	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/91-10/31/91	0	1	
GRSM0156	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/91-10/31/91	0	1	
GRSM0158	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/91-10/31/91	0	1	
GRSM0159	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/91-10/31/91	0	1	
GRSM0160	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	04/20/82-04/20/82	0	1	
GRSM0161	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/25/68-09/25/68	0	1	
GRSM0162	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/91-10/31/91	0	1	
GRSM0163	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	03/23/82-04/20/82	0	2	
GRSM0164	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/25/68-09/25/68	0	1	
GRSM0165	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/91-10/31/91	0	1	
GRSM0167	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	04/21/82-04/21/82	0	1	
GRSM0170	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/29/91-10/29/91	0	1	
GRSM0172	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/91-10/31/91	0	1	
GRSM0173	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	03/25/82-03/25/82	0	1	
GRSM0174	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/29/91-10/29/91	0	1	
GRSM0175	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	12/02/81-03/25/82	0	2	
GRSM0176	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/91-10/30/91	0	1	
GRSM0178	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/24/68-09/24/68	0	1	
GRSM0179	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/91-10/30/91	0	1	
GRSM0180	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/91-10/30/91	0	1	
GRSM0182	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	08/10/63-11/22/94	31	58	S
GRSM0183	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/29/91-10/29/91	0	1	
GRSM0184	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/18/62-05/11/93	30	124	T,S
GRSM0185	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	02/24/83-12/19/90	7	56	
GRSM0186	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	04/23/76-04/23/76	0	1	
GRSM0202	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	01/08/68-03/18/75	7	19	
GRSM0214	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/05/78-05/05/78	0	1	
GRSM0216	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/78-05/04/78	0	1	
GRSM0217	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/06/78-05/06/78	0	1	
GRSM0221	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/25/68-09/25/68	0	1	
GRSM0222	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	01/08/68-07/29/68	0	6	
GRSM0223	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/06/67-08/01/68	0	4	
GRSM0227	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/25/68-09/25/68	0	1	
GRSM0240	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/24/68-09/24/68	0	1	
GRSM0244	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/10/67-12/06/68	1	15	
GRSM0249	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/17/57-03/28/73	15	74	
GRSM0250	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/21/75-02/08/77	1	17	
GRSM0251	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/21/75-09/07/76	0	13	
GRSM0253	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/05/73-06/08/73	0	4	
GRSM0256	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/18/68-05/17/73	4	2	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0262	No	00945	SULFATE, TOTAL (MG/L AS SO4)	02/23/77-10/11/78	1	8	
GRSM0041	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	10/18/82-10/18/82	0	1	
GRSM0061	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	10/19/82-10/19/82	0	1	
GRSM0071	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/25/85-07/11/85	0	4	
GRSM0072	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	12/13/83-05/08/85	1	26	
GRSM0077	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	10/18/82-10/18/82	0	1	
GRSM0081	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/25/85-07/08/85	0	4	
GRSM0086	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/20/85-07/03/85	0	4	
GRSM0095	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/03/85-07/03/85	0	1	
GRSM0099	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	04/22/85-07/16/85	0	2	
GRSM0100	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/08/85-07/08/85	0	1	
GRSM0106	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/25/85-07/16/85	0	4	
GRSM0152	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/10/85-07/10/85	0	1	
GRSM0190	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/27/85-07/10/85	0	4	
GRSM0194	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/25/85-07/08/85	0	4	
GRSM0195	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/16/85-07/16/85	0	1	
GRSM0206	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/08/85-07/08/85	0	1	
GRSM0213	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/28/85-07/16/85	0	4	
GRSM0229	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	12/13/83-05/15/85	1	51	
GRSM0237	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/28/85-07/10/85	0	4	
GRSM0255	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/07/85-07/07/85	0	1	
GRSM0259	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/24/85-07/07/85	0	4	
GRSM0010	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/19/56-09/24/63	6	62	
GRSM0041	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/18/82-10/18/82	0	1	
GRSM0050	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/20/84-11/20/84	0	1	
GRSM0052	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/20/84-11/20/84	0	1	
GRSM0056	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/21/68-05/24/72	4	11	
GRSM0061	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/19/82-10/19/82	0	1	
GRSM0071	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/25/85-07/11/85	0	4	
GRSM0072	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/13/83-05/08/85	1	24	
GRSM0074	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/06/56-04/13/62	5	8	
GRSM0076	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/25/68-09/25/68	0	1	
GRSM0077	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/18/82-10/18/82	0	1	
GRSM0080	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/20/84-11/20/84	0	1	
GRSM0081	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/25/85-07/08/85	0	4	
GRSM0086	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/20/85-07/03/85	0	4	
GRSM0091	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/23/73-08/08/74	0	2	
GRSM0094	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/82-03/26/82	0	1	
GRSM0095	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/03/85-07/03/85	0	1	
GRSM0099	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/22/85-07/16/85	0	2	
GRSM0100	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/08/85-07/08/85	0	1	
GRSM0106	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/25/85-07/16/85	0	4	
GRSM0107	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/24/68-09/24/68	0	1	
GRSM0108	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/82-03/26/82	0	1	
GRSM0110	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/82-03/26/82	0	1	
GRSM0111	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/29/82-07/29/82	0	1	
GRSM0112	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/17/82-08/01/82	0	91	
GRSM0115	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/11/82-08/11/82	0	1	
GRSM0120	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/24/68-09/24/68	0	1	
GRSM0125	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/29/91-10/29/91	0	1	
GRSM0129	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/29/91-10/29/91	0	1	
GRSM0132	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/91-10/31/91	0	1	
GRSM0134	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/82-03/26/82	0	1	
GRSM0135	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/30/91-10/30/91	0	1	
GRSM0137	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/82-04/22/82	0	2	
GRSM0138	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/82-03/24/82	0	1	
GRSM0139	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/22/82-03/22/82	0	1	
GRSM0140	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/30/91-10/30/91	0	1	
GRSM0143	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/22/82-03/22/82	0	1	
GRSM0144	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/25/68-09/25/68	0	1	
GRSM0145	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/82-03/24/82	0	1	
GRSM0147	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/29/91-10/29/91	0	1	
GRSM0148	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/82-03/24/82	0	1	
GRSM0149	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/29/91-10/29/91	0	1	
GRSM0150	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/82-03/26/82	0	1	
GRSM0152	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/10/85-07/10/85	0	1	
GRSM0153	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/30/91-10/30/91	0	1	
GRSM0154	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/91-10/31/91	0	1	
GRSM0156	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/91-10/31/91	0	1	
GRSM0158	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/91-10/31/91	0	1	
GRSM0159	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/91-10/31/91	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0160	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/20/82-04/20/82	0	1	
GRSM0161	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/25/68-09/25/68	0	1	
GRSM0162	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/91-10/31/91	0	1	
GRSM0163	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/23/82-04/20/82	0	2	
GRSM0164	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/25/68-09/25/68	0	1	
GRSM0165	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/91-10/31/91	0	1	
GRSM0167	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/21/82-04/21/82	0	1	
GRSM0170	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/29/91-10/29/91	0	1	
GRSM0172	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/91-10/31/91	0	1	
GRSM0173	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/25/82-03/25/82	0	1	
GRSM0174	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/29/91-10/29/91	0	1	
GRSM0175	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/25/82-03/25/82	0	1	
GRSM0176	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/30/91-10/30/91	0	1	
GRSM0177	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/20/84-11/20/84	0	1	
GRSM0178	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/24/68-09/24/68	0	1	
GRSM0179	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/30/91-10/30/91	0	1	
GRSM0180	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/30/91-10/30/91	0	1	
GRSM0182	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/10/63-11/22/94	31	58	S
GRSM0183	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/29/91-10/29/91	0	1	
GRSM0184	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/18/62-05/11/93	30	123	T,S
GRSM0186	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/23/76-04/23/76	0	1	
GRSM0190	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/27/85-07/10/85	0	4	
GRSM0191	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/20/84-11/20/84	0	1	
GRSM0194	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/25/85-07/08/85	0	4	
GRSM0195	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/16/85-07/16/85	0	1	
GRSM0206	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/08/85-07/08/85	0	1	
GRSM0208	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/29/84-11/29/84	0	1	
GRSM0213	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/28/85-07/16/85	0	4	
GRSM0214	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/05/78-05/05/78	0	1	
GRSM0216	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/04/78-05/04/78	0	1	
GRSM0217	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/06/78-05/06/78	0	1	
GRSM0221	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/25/68-09/25/68	0	1	
GRSM0227	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/25/68-09/25/68	0	1	
GRSM0229	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/13/83-05/15/85	1	51	
GRSM0237	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/28/85-07/10/85	0	4	
GRSM0240	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/24/68-09/24/68	0	1	
GRSM0244	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/10/67-12/06/68	1	15	
GRSM0249	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/17/57-03/28/73	15	74	
GRSM0255	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/07/85-07/07/85	0	1	
GRSM0259	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/85-07/07/85	0	4	
GRSM0009	No	00951	FLUORIDE, TOTAL (MG/L AS F)	09/23/75-08/09/77	1	18	
GRSM0036	No	00951	FLUORIDE, TOTAL (MG/L AS F)	02/04/74-01/17/77	2	35	
GRSM0037	No	00951	FLUORIDE, TOTAL (MG/L AS F)	06/25/73-06/25/73	0	1	
GRSM0048	No	00951	FLUORIDE, TOTAL (MG/L AS F)	03/03/74-01/17/77	2	35	
GRSM0054	No	00951	FLUORIDE, TOTAL (MG/L AS F)	02/15/77-08/09/77	0	3	
GRSM0055	No	00951	FLUORIDE, TOTAL (MG/L AS F)	02/15/77-08/29/78	1	7	
GRSM0057	No	00951	FLUORIDE, TOTAL (MG/L AS F)	01/28/74-09/19/77	3	38	
GRSM0070	No	00951	FLUORIDE, TOTAL (MG/L AS F)	09/16/74-09/16/74	0	1	
GRSM0073	No	00951	FLUORIDE, TOTAL (MG/L AS F)	09/16/74-01/29/75	0	2	
GRSM0078	No	00951	FLUORIDE, TOTAL (MG/L AS F)	01/28/74-01/24/77	2	36	
GRSM0084	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	04/30/68-03/24/69	0	8	
GRSM0087	No	00951	FLUORIDE, TOTAL (MG/L AS F)	05/02/68-03/24/69	0	8	
GRSM0102	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	04/30/68-03/24/69	0	8	
GRSM0105	No	00951	FLUORIDE, TOTAL (MG/L AS F)	04/30/68-03/24/69	0	9	
GRSM0202	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	03/11/68-03/18/75	7	16	
GRSM0222	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	03/11/68-07/29/68	0	5	
GRSM0250	No	00951	FLUORIDE, TOTAL (MG/L AS F)	10/21/75-02/08/77	1	17	
GRSM0251	No	00951	FLUORIDE, TOTAL (MG/L AS F)	10/21/75-09/07/76	0	13	
GRSM0262	No	00951	FLUORIDE, TOTAL (MG/L AS F)	02/23/77-08/09/77	0	3	
GRSM0010	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/19/56-05/09/72	15	72	
GRSM0031	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	01/23/73-09/06/73	0	4	
GRSM0036	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/17/75-01/17/77	1	23	
GRSM0048	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/17/75-01/17/77	1	22	
GRSM0050	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/20/84-11/20/84	0	1	
GRSM0052	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/20/84-11/20/84	0	1	
GRSM0054	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	02/15/77-02/15/77	0	1	
GRSM0056	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/21/68-05/24/72	4	11	
GRSM0057	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/17/75-02/01/77	1	23	
GRSM0071	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/25/85-07/11/85	0	4	
GRSM0074	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/06/56-04/13/62	5	7	
GRSM0076	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/25/68-09/25/68	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0078	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/17/75-01/24/77	1	23	
GRSM0080	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/20/84-11/20/84	0	1	
GRSM0081	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/25/85-07/08/85	0	4	
GRSM0086	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/20/85-07/03/85	0	4	
GRSM0091	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/23/73-08/08/74	0	2	
GRSM0094	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/26/82-03/26/82	0	1	
GRSM0095	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/03/85-07/03/85	0	1	
GRSM0099	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/22/85-07/16/85	0	2	
GRSM0100	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/08/85-07/08/85	0	1	
GRSM0106	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/25/85-07/16/85	0	4	
GRSM0107	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/24/68-09/24/68	0	1	
GRSM0108	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/26/82-03/26/82	0	1	
GRSM0110	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/26/82-03/26/82	0	1	
GRSM0111	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/29/82-07/29/82	0	1	
GRSM0112	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/26/82-08/01/82	0	64	
GRSM0115	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/11/82-08/11/82	0	1	
GRSM0120	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/24/68-09/24/68	0	1	
GRSM0125	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/29/91-10/29/91	0	1	
GRSM0129	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/29/91-10/29/91	0	1	
GRSM0132	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/91-10/31/91	0	1	
GRSM0134	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/26/82-03/26/82	0	1	
GRSM0135	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/30/91-10/30/91	0	1	
GRSM0137	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/24/82-04/22/82	0	2	
GRSM0138	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/24/82-03/24/82	0	1	
GRSM0139	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/22/82-03/22/82	0	1	
GRSM0140	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/30/91-10/30/91	0	1	
GRSM0143	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/22/82-03/22/82	0	1	
GRSM0144	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/25/68-09/25/68	0	1	
GRSM0145	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/24/82-03/24/82	0	1	
GRSM0147	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/29/91-10/29/91	0	1	
GRSM0148	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/24/82-03/24/82	0	1	
GRSM0149	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/29/91-10/29/91	0	1	
GRSM0150	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/26/82-03/26/82	0	1	
GRSM0152	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/10/85-07/10/85	0	1	
GRSM0153	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/30/91-10/30/91	0	1	
GRSM0154	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/91-10/31/91	0	1	
GRSM0156	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/91-10/31/91	0	1	
GRSM0158	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/91-10/31/91	0	1	
GRSM0159	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/91-10/31/91	0	1	
GRSM0160	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/20/82-04/20/82	0	1	
GRSM0161	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/25/68-09/25/68	0	1	
GRSM0162	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/91-10/31/91	0	1	
GRSM0163	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/23/82-04/20/82	0	2	
GRSM0164	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/25/68-09/25/68	0	1	
GRSM0165	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/91-10/31/91	0	1	
GRSM0167	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/21/82-04/21/82	0	1	
GRSM0170	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/29/91-10/29/91	0	1	
GRSM0172	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/91-10/31/91	0	1	
GRSM0173	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/25/82-03/25/82	0	1	
GRSM0174	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/29/91-10/29/91	0	1	
GRSM0175	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/25/82-03/25/82	0	1	
GRSM0176	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/30/91-10/30/91	0	1	
GRSM0177	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/20/84-11/20/84	0	1	
GRSM0178	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/24/68-09/24/68	0	1	
GRSM0179	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/30/91-10/30/91	0	1	
GRSM0180	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/30/91-10/30/91	0	1	
GRSM0182	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/10/63-11/22/94	31	58	S
GRSM0183	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/29/91-10/29/91	0	1	
GRSM0184	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/18/62-05/11/93	30	123	T,S
GRSM0186	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/23/76-04/23/76	0	1	
GRSM0190	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/27/85-07/10/85	0	4	
GRSM0191	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/20/84-11/20/84	0	1	
GRSM0194	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/25/85-07/08/85	0	4	
GRSM0195	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/16/85-07/16/85	0	1	
GRSM0206	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/08/85-07/08/85	0	1	
GRSM0208	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/29/84-11/29/84	0	1	
GRSM0213	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/28/85-07/16/85	0	4	
GRSM0214	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/05/78-05/05/78	0	1	
GRSM0216	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/04/78-05/04/78	0	1	
GRSM0217	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/06/78-05/06/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0221	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/25/68-09/25/68	0	1	
GRSM0223	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/06/67-08/01/68	0	4	
GRSM0227	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/25/68-09/25/68	0	1	
GRSM0237	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/28/85-07/10/85	0	4	
GRSM0240	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/24/68-09/24/68	0	1	
GRSM0244	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/10/67-12/06/68	1	15	
GRSM0249	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/17/57-03/28/73	15	74	
GRSM0250	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/21/75-02/08/77	1	17	
GRSM0251	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/21/75-09/07/76	0	13	
GRSM0255	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/07/85-07/07/85	0	1	
GRSM0259	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/24/85-07/07/85	0	4	
GRSM0262	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	02/23/77-02/23/77	0	1	
GRSM0021	Yes	00956	SILICA, TOTAL (MG/L AS SI02)	05/03/66-01/31/67	0	9	
GRSM0036	No	00956	SILICA, TOTAL (MG/L AS SI02)	02/04/74-02/18/75	1	15	
GRSM0048	No	00956	SILICA, TOTAL (MG/L AS SI02)	03/03/74-02/24/75	0	13	
GRSM0057	No	00956	SILICA, TOTAL (MG/L AS SI02)	06/06/66-02/18/75	8	17	
GRSM0078	No	00956	SILICA, TOTAL (MG/L AS SI02)	01/28/74-02/17/75	1	14	
GRSM0084	Yes	00956	SILICA, TOTAL (MG/L AS SI02)	04/30/68-03/24/69	0	8	
GRSM0087	No	00956	SILICA, TOTAL (MG/L AS SI02)	01/23/67-03/24/69	2	17	
GRSM0094	No	00956	SILICA, TOTAL (MG/L AS SI02)	03/26/82-03/26/82	0	1	
GRSM0102	Yes	00956	SILICA, TOTAL (MG/L AS SI02)	04/30/68-03/24/69	0	8	
GRSM0105	No	00956	SILICA, TOTAL (MG/L AS SI02)	04/30/68-03/24/69	0	9	
GRSM0108	No	00956	SILICA, TOTAL (MG/L AS SI02)	03/26/82-03/26/82	0	1	
GRSM0110	No	00956	SILICA, TOTAL (MG/L AS SI02)	03/26/82-03/26/82	0	1	
GRSM0111	No	00956	SILICA, TOTAL (MG/L AS SI02)	07/29/82-07/29/82	0	1	
GRSM0112	No	00956	SILICA, TOTAL (MG/L AS SI02)	03/26/82-08/01/82	0	71	
GRSM0115	Yes	00956	SILICA, TOTAL (MG/L AS SI02)	08/11/82-08/11/82	0	1	
GRSM0134	Yes	00956	SILICA, TOTAL (MG/L AS SI02)	03/26/82-03/26/82	0	1	
GRSM0137	Yes	00956	SILICA, TOTAL (MG/L AS SI02)	03/24/82-04/22/82	0	2	
GRSM0138	Yes	00956	SILICA, TOTAL (MG/L AS SI02)	03/24/82-03/24/82	0	1	
GRSM0139	Yes	00956	SILICA, TOTAL (MG/L AS SI02)	03/22/82-03/22/82	0	1	
GRSM0143	Yes	00956	SILICA, TOTAL (MG/L AS SI02)	03/22/82-03/22/82	0	1	
GRSM0145	Yes	00956	SILICA, TOTAL (MG/L AS SI02)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	00956	SILICA, TOTAL (MG/L AS SI02)	03/24/82-03/24/82	0	1	
GRSM0148	Yes	00956	SILICA, TOTAL (MG/L AS SI02)	03/24/82-03/24/82	0	1	
GRSM0150	Yes	00956	SILICA, TOTAL (MG/L AS SI02)	03/26/82-03/26/82	0	1	
GRSM0160	Yes	00956	SILICA, TOTAL (MG/L AS SI02)	04/20/82-04/20/82	0	1	
GRSM0163	Yes	00956	SILICA, TOTAL (MG/L AS SI02)	03/23/82-04/20/82	0	2	
GRSM0167	Yes	00956	SILICA, TOTAL (MG/L AS SI02)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	00956	SILICA, TOTAL (MG/L AS SI02)	04/21/82-04/21/82	0	1	
GRSM0173	Yes	00956	SILICA, TOTAL (MG/L AS SI02)	03/25/82-03/25/82	0	1	
GRSM0175	Yes	00956	SILICA, TOTAL (MG/L AS SI02)	03/25/82-03/25/82	0	1	
GRSM0202	Yes	00956	SILICA, TOTAL (MG/L AS SI02)	01/08/68-03/18/75	7	19	
GRSM0222	Yes	00956	SILICA, TOTAL (MG/L AS SI02)	01/08/68-07/29/68	0	6	
GRSM0007	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/29/75	1	2	
GRSM0011	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	06/25/73-12/10/74	1	3	
GRSM0013	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/30/75	1	5	
GRSM0016	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/29/75	1	2	
GRSM0022	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/29/75	1	2	
GRSM0024	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/30/75	1	5	
GRSM0027	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/29/75	1	2	
GRSM0037	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	06/25/73-11/21/74	1	2	
GRSM0055	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	06/25/73-11/21/74	1	2	
GRSM0059	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	06/25/73-11/27/74	1	2	
GRSM0063	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/29/75	1	2	
GRSM0070	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	06/21/73-01/29/75	1	5	
GRSM0073	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	06/21/73-01/29/75	1	5	
GRSM0182	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/08/70-02/05/91	20	12	
GRSM0184	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/11/73-08/20/91	17	46	
GRSM0186	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/23/76-04/23/76	0	1	
GRSM0256	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/25/73-10/25/73	0	1	
GRSM0184	Yes	01001	ARSENIC, SUSPENDED (UG/L AS AS)	10/11/73-09/08/82	8	17	
GRSM0007	No	01002	ARSENIC, TOTAL (UG/L AS AS)	07/07/77-07/31/79	2	6	
GRSM0009	No	01002	ARSENIC, TOTAL (UG/L AS AS)	01/02/75-11/17/94	19	98	
GRSM0013	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	07/07/77-08/04/82	5	9	
GRSM0016	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	07/07/77-08/04/82	5	9	
GRSM0022	No	01002	ARSENIC, TOTAL (UG/L AS AS)	07/07/77-07/31/79	2	6	
GRSM0024	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	07/27/77-08/04/82	5	8	
GRSM0027	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	07/07/77-08/04/82	5	9	
GRSM0037	No	01002	ARSENIC, TOTAL (UG/L AS AS)	05/29/74-12/11/80	6	16	
GRSM0055	No	01002	ARSENIC, TOTAL (UG/L AS AS)	05/29/74-08/20/86	12	41	
GRSM0063	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	07/07/77-07/31/79	2	5	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0091	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	10/03/77-03/10/78	0	2	
GRSM0151	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	11/28/78-11/28/78	0	1	
GRSM0155	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	11/28/78-11/28/78	0	1	
GRSM0184	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	10/11/73-09/08/82	8	22	
GRSM0185	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	05/26/76-11/07/94	18	91	
GRSM0189	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	11/28/78-11/28/78	0	1	
GRSM0202	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	04/24/74-01/14/75	0	4	
GRSM0214	No	01002	ARSENIC, TOTAL (UG/L AS AS)	05/05/78-05/05/78	0	1	
GRSM0216	No	01002	ARSENIC, TOTAL (UG/L AS AS)	05/04/78-05/04/78	0	1	
GRSM0217	No	01002	ARSENIC, TOTAL (UG/L AS AS)	05/06/78-05/06/78	0	1	
GRSM0230	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	06/05/80-06/05/80	0	1	
GRSM0250	No	01002	ARSENIC, TOTAL (UG/L AS AS)	02/08/77-02/08/77	0	1	
GRSM0256	No	01002	ARSENIC, TOTAL (UG/L AS AS)	09/09/71-12/05/94	23	108	
GRSM0264	No	01002	ARSENIC, TOTAL (UG/L AS AS)	10/20/82-12/14/92	10	77	
GRSM0027	Yes	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/17/80-08/04/82	2	2	
GRSM0035	Yes	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0053	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0055	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	07/15/81-11/29/84	3	5	
GRSM0097	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0151	Yes	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	11/28/78-11/28/78	0	1	
GRSM0155	Yes	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	11/28/78-11/28/78	0	1	
GRSM0184	Yes	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	03/05/74-06/14/74	0	2	
GRSM0185	Yes	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	11/28/78-11/29/84	6	6	
GRSM0189	Yes	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	11/28/78-11/28/78	0	1	
GRSM0230	Yes	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/05/80-06/05/80	0	1	
GRSM0256	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/26/81-08/15/85	4	5	
GRSM0005	No	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	09/23/87-11/16/93	6	5	
GRSM0020	Yes	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	11/17/93-11/17/93	0	1	
GRSM0035	Yes	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	09/23/87-11/25/88	1	3	
GRSM0055	No	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	02/22/82-02/22/82	0	2	
GRSM0069	Yes	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	12/01/92-11/18/93	0	2	
GRSM0185	Yes	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	10/24/84-10/24/84	0	9	
GRSM0256	No	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	02/23/82-02/23/82	0	2	
GRSM0182	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/17/85-11/22/94	9	24	
GRSM0184	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/22/79-05/11/93	13	43	
GRSM0184	Yes	01006	BARIUM, SUSPENDED (UG/L AS BA)	10/22/79-01/20/82	2	4	
GRSM0009	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/09/77-08/09/77	0	1	
GRSM0054	No	01007	BARIUM, TOTAL (UG/L AS BA)	02/15/77-08/09/77	0	3	
GRSM0055	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/09/77-08/09/77	0	1	
GRSM0057	No	01007	BARIUM, TOTAL (UG/L AS BA)	03/17/77-09/19/77	0	3	
GRSM0184	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	03/05/74-09/08/82	8	14	
GRSM0202	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	04/24/74-01/14/75	0	5	
GRSM0214	No	01007	BARIUM, TOTAL (UG/L AS BA)	05/05/78-05/05/78	0	1	
GRSM0216	No	01007	BARIUM, TOTAL (UG/L AS BA)	05/04/78-05/04/78	0	1	
GRSM0217	No	01007	BARIUM, TOTAL (UG/L AS BA)	05/06/78-05/06/78	0	1	
GRSM0230	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	06/05/80-06/05/80	0	1	
GRSM0250	No	01007	BARIUM, TOTAL (UG/L AS BA)	02/08/77-02/08/77	0	1	
GRSM0262	No	01007	BARIUM, TOTAL (UG/L AS BA)	02/23/77-08/09/77	0	3	
GRSM0035	Yes	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0053	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0097	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0230	Yes	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/05/80-06/05/80	0	1	
GRSM0182	Yes	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/17/85-02/05/91	5	11	
GRSM0184	Yes	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/22/79-08/20/91	11	36	
GRSM0009	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/18/76-12/21/89	13	4	
GRSM0054	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	02/15/77-08/09/77	0	3	
GRSM0055	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/09/77-08/09/77	0	1	
GRSM0057	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/17/77-09/19/77	0	3	
GRSM0202	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	04/24/74-01/14/75	0	5	
GRSM0230	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/05/80-06/05/80	0	1	
GRSM0250	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	02/08/77-02/08/77	0	1	
GRSM0262	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	02/23/77-08/09/77	0	3	
GRSM0035	Yes	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0053	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0097	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0230	Yes	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/05/80-06/05/80	0	1	
GRSM0054	No	01022	BORON, TOTAL (UG/L AS B)	02/15/77-02/15/77	0	1	
GRSM0202	Yes	01022	BORON, TOTAL (UG/L AS B)	04/24/74-01/14/75	0	4	
GRSM0250	No	01022	BORON, TOTAL (UG/L AS B)	02/08/77-02/08/77	0	1	
GRSM0182	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/30/68-02/05/91	22	13	

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Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0184	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/11/73-08/20/91	17	46	
GRSM0186	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/23/76-04/23/76	0	1	
GRSM0249	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	07/21/70-08/29/72	2	2	
GRSM0256	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/25/73-10/25/73	0	1	
GRSM0184	Yes	01026	CADMIUM, SUSPENDED (UG/L AS CD)	10/11/73-01/20/82	8	15	
GRSM0007	No	01027	CADMIUM, TOTAL (UG/L AS CD)	07/29/75-07/31/79	4	7	
GRSM0009	No	01027	CADMIUM, TOTAL (UG/L AS CD)	01/02/75-11/17/94	19	100	
GRSM0013	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	07/29/75-08/04/82	7	10	
GRSM0014	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	08/05/87-08/05/87	0	1	
GRSM0016	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	07/29/75-08/04/82	7	10	
GRSM0017	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	08/05/87-08/05/87	0	1	
GRSM0022	No	01027	CADMIUM, TOTAL (UG/L AS CD)	07/29/75-07/31/79	4	7	
GRSM0024	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	07/29/75-08/04/82	7	9	
GRSM0025	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	08/05/87-08/05/87	0	1	
GRSM0027	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	07/29/75-08/04/82	7	10	
GRSM0028	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	08/05/87-08/05/87	0	1	
GRSM0037	No	01027	CADMIUM, TOTAL (UG/L AS CD)	05/29/74-03/12/81	6	17	
GRSM0054	No	01027	CADMIUM, TOTAL (UG/L AS CD)	02/15/77-10/24/78	1	8	
GRSM0055	No	01027	CADMIUM, TOTAL (UG/L AS CD)	05/29/74-08/20/86	12	54	
GRSM0057	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/17/77-06/17/80	3	18	
GRSM0063	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	07/29/75-07/31/79	4	7	
GRSM0064	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	08/05/87-08/05/87	0	1	
GRSM0151	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	11/28/78-11/28/78	0	1	
GRSM0155	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	11/28/78-11/28/78	0	1	
GRSM0171	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	07/23/81-07/23/81	0	1	
GRSM0184	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	10/11/73-09/08/82	8	22	
GRSM0185	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	05/26/76-11/07/94	18	96	
GRSM0189	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	11/28/78-11/28/78	0	1	
GRSM0192	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	07/23/81-07/23/81	0	1	
GRSM0202	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	04/24/74-01/14/75	0	5	
GRSM0214	No	01027	CADMIUM, TOTAL (UG/L AS CD)	05/05/78-05/05/78	0	1	
GRSM0216	No	01027	CADMIUM, TOTAL (UG/L AS CD)	05/04/78-05/04/78	0	1	
GRSM0217	No	01027	CADMIUM, TOTAL (UG/L AS CD)	05/06/78-05/06/78	0	1	
GRSM0218	No	01027	CADMIUM, TOTAL (UG/L AS CD)	07/23/81-08/13/81	0	2	
GRSM0219	No	01027	CADMIUM, TOTAL (UG/L AS CD)	07/23/81-08/13/81	0	2	
GRSM0225	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	08/13/81-08/13/81	0	1	
GRSM0226	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	08/13/81-08/13/81	0	1	
GRSM0230	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	06/05/80-06/05/80	0	1	
GRSM0234	No	01027	CADMIUM, TOTAL (UG/L AS CD)	07/23/81-08/13/81	0	2	
GRSM0236	No	01027	CADMIUM, TOTAL (UG/L AS CD)	07/23/81-08/13/81	0	2	
GRSM0239	No	01027	CADMIUM, TOTAL (UG/L AS CD)	07/23/81-08/13/81	0	2	
GRSM0250	No	01027	CADMIUM, TOTAL (UG/L AS CD)	02/08/77-02/08/77	0	1	
GRSM0256	No	01027	CADMIUM, TOTAL (UG/L AS CD)	02/04/74-12/05/94	20	103	
GRSM0262	No	01027	CADMIUM, TOTAL (UG/L AS CD)	02/23/77-10/11/78	1	8	
GRSM0264	No	01027	CADMIUM, TOTAL (UG/L AS CD)	10/20/82-12/14/92	10	77	
GRSM0003	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	0	1	
GRSM0020	Yes	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	0	1	
GRSM0027	Yes	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/17/80-08/04/82	2	2	
GRSM0035	Yes	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0053	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0055	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/15/81-11/29/84	3	5	
GRSM0069	Yes	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	0	2	
GRSM0097	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0151	Yes	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/28/78	0	1	
GRSM0155	Yes	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/28/78	0	1	
GRSM0184	Yes	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	03/05/74-06/14/74	0	2	
GRSM0185	Yes	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/29/84	6	6	
GRSM0189	Yes	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/28/78	0	1	
GRSM0230	Yes	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/05/80-06/05/80	0	1	
GRSM0256	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/26/81-08/15/85	4	5	
GRSM0003	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	0	1	
GRSM0020	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	0	1	
GRSM0027	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/17/80-08/04/82	2	2	
GRSM0035	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0053	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0055	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/15/81-11/29/84	3	5	
GRSM0069	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	0	2	
GRSM0097	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0151	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/28/78	0	1	
GRSM0155	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/28/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0157	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/28/78	0	1	
GRSM0184	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	03/05/74-09/01/76	2	4	
GRSM0185	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/29/84	6	6	
GRSM0189	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/28/78	0	1	
GRSM0230	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/05/80-06/05/80	0	1	
GRSM0256	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/26/81-08/15/85	4	5	
GRSM0007	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/29/75	1	2	
GRSM0011	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/25/73-12/10/74	1	4	
GRSM0013	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/31/75	1	6	
GRSM0016	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/29/75	1	2	
GRSM0022	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/29/75	1	2	
GRSM0024	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/31/75	1	6	
GRSM0027	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/29/75	1	2	
GRSM0037	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/25/73-11/21/74	1	2	
GRSM0055	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/25/73-11/21/74	1	2	
GRSM0059	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/25/73-11/27/74	1	2	
GRSM0063	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/29/75	1	2	
GRSM0070	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/21/73-01/29/75	1	6	
GRSM0073	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/21/73-01/29/75	1	6	
GRSM0091	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/03/77-03/10/78	0	2	
GRSM0182	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/17/85-02/05/91	5	11	
GRSM0184	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	12/12/68-08/20/91	22	63	
GRSM0186	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/23/76-04/23/76	0	1	
GRSM0253	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/06/73-06/08/73	0	3	
GRSM0091	Yes	01031	CHROMIUM, SUSPEND (UG/L AS CR)	10/03/77-03/10/78	0	2	
GRSM0184	Yes	01031	CHROMIUM, SUSPEND (UG/L AS CR)	10/11/73-01/20/82	8	31	
GRSM0009	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	01/02/75-01/02/75	0	1	
GRSM0182	Yes	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	10/08/70-10/08/70	0	1	
GRSM0214	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	05/05/78-05/05/78	0	1	
GRSM0216	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	05/04/78-05/04/78	0	1	
GRSM0217	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	05/06/78-05/06/78	0	1	
GRSM0007	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-07/31/79	4	7	
GRSM0009	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	09/23/75-11/17/94	19	100	
GRSM0013	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-08/04/82	7	10	
GRSM0014	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/05/87-08/05/87	0	1	
GRSM0016	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-08/04/82	7	10	
GRSM0017	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/05/87-08/05/87	0	1	
GRSM0022	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-07/31/79	4	7	
GRSM0024	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-08/04/82	7	9	
GRSM0025	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/05/87-08/05/87	0	1	
GRSM0027	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-08/04/82	7	10	
GRSM0028	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/05/87-08/05/87	0	1	
GRSM0037	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/29/74-03/12/81	6	17	
GRSM0055	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/28/75-08/20/86	11	53	
GRSM0063	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-07/31/79	4	7	
GRSM0064	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/05/87-08/05/87	0	1	
GRSM0091	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/03/77-03/10/78	0	2	
GRSM0151	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	11/28/78-11/28/78	0	1	
GRSM0155	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	11/28/78-11/28/78	0	1	
GRSM0171	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/23/81-07/23/81	0	1	
GRSM0182	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	09/30/68-09/30/68	0	1	
GRSM0184	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	11/01/67-09/08/82	14	35	
GRSM0185	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/26/76-11/07/94	18	96	
GRSM0189	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	11/28/78-11/28/78	0	1	
GRSM0192	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/23/81-07/23/81	0	1	
GRSM0202	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	04/24/74-01/14/75	0	5	
GRSM0218	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/23/81-08/13/81	0	2	
GRSM0219	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/23/81-08/13/81	0	2	
GRSM0225	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/13/81-08/13/81	0	1	
GRSM0226	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/13/81-08/13/81	0	1	
GRSM0230	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/05/80-06/05/80	0	1	
GRSM0234	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/23/81-08/13/81	0	2	
GRSM0236	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/23/81-08/13/81	0	2	
GRSM0239	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/23/81-08/13/81	0	2	
GRSM0249	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/21/70-07/21/70	0	1	
GRSM0250	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	02/08/77-02/08/77	0	1	
GRSM0253	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/05/73-06/08/73	0	4	
GRSM0256	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/25/73-12/05/94	21	104	
GRSM0264	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/20/82-12/14/92	10	22	
GRSM0182	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	09/30/68-11/22/94	26	26	S
GRSM0184	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	10/11/73-05/11/93	19	53	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0186	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	04/23/76-04/23/76	0	1	
GRSM0184	Yes	01036	COBALT, SUSPENDED (UG/L AS CO)	10/11/73-08/27/74	0	10	
GRSM0256	No	01036	COBALT, SUSPENDED (UG/L AS CO)	10/25/73-10/25/73	0	1	
GRSM0007	No	01037	COBALT, TOTAL (UG/L AS CO)	07/29/75-07/31/79	4	7	
GRSM0009	No	01037	COBALT, TOTAL (UG/L AS CO)	01/02/75-12/21/89	14	29	
GRSM0013	Yes	01037	COBALT, TOTAL (UG/L AS CO)	07/29/75-08/04/82	7	10	
GRSM0016	Yes	01037	COBALT, TOTAL (UG/L AS CO)	07/29/75-08/04/82	7	10	
GRSM0022	No	01037	COBALT, TOTAL (UG/L AS CO)	07/29/75-07/31/79	4	7	
GRSM0024	Yes	01037	COBALT, TOTAL (UG/L AS CO)	07/29/75-08/04/82	7	9	
GRSM0027	Yes	01037	COBALT, TOTAL (UG/L AS CO)	07/29/75-08/04/82	7	10	
GRSM0037	No	01037	COBALT, TOTAL (UG/L AS CO)	05/29/74-03/12/81	6	17	
GRSM0055	No	01037	COBALT, TOTAL (UG/L AS CO)	05/29/74-09/14/81	7	32	
GRSM0063	Yes	01037	COBALT, TOTAL (UG/L AS CO)	07/29/75-07/31/79	4	7	
GRSM0151	Yes	01037	COBALT, TOTAL (UG/L AS CO)	11/28/78-11/28/78	0	2	
GRSM0155	Yes	01037	COBALT, TOTAL (UG/L AS CO)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	01037	COBALT, TOTAL (UG/L AS CO)	11/28/78-11/28/78	0	2	
GRSM0184	Yes	01037	COBALT, TOTAL (UG/L AS CO)	10/11/73-08/27/74	0	10	
GRSM0185	Yes	01037	COBALT, TOTAL (UG/L AS CO)	05/26/76-05/26/87	11	20	
GRSM0189	Yes	01037	COBALT, TOTAL (UG/L AS CO)	11/28/78-11/28/78	0	2	
GRSM0230	Yes	01037	COBALT, TOTAL (UG/L AS CO)	06/05/80-06/05/80	0	1	
GRSM0256	No	01037	COBALT, TOTAL (UG/L AS CO)	02/04/74-09/17/81	7	25	
GRSM0027	Yes	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/17/80-06/17/80	0	1	
GRSM0035	Yes	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0053	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0097	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0184	Yes	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	03/05/74-06/14/74	0	2	
GRSM0230	Yes	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/05/80-06/05/80	0	1	
GRSM0151	Yes	01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/28/78-11/28/78	0	1	
GRSM0155	Yes	01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/28/78-11/28/78	0	1	
GRSM0185	Yes	01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/28/78-11/28/78	0	1	
GRSM0189	Yes	01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/28/78-11/28/78	0	1	
GRSM0007	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/29/75	1	2	
GRSM0011	No	01040	COPPER, DISSOLVED (UG/L AS CU)	06/25/73-12/10/74	1	4	
GRSM0013	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/31/75	1	6	
GRSM0016	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/29/75	1	2	
GRSM0022	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/29/75	1	2	
GRSM0024	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/31/75	1	6	
GRSM0027	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/29/75	1	2	
GRSM0037	No	01040	COPPER, DISSOLVED (UG/L AS CU)	06/25/73-11/21/74	1	2	
GRSM0055	No	01040	COPPER, DISSOLVED (UG/L AS CU)	06/25/73-11/21/74	1	2	
GRSM0059	No	01040	COPPER, DISSOLVED (UG/L AS CU)	06/25/73-11/27/74	1	2	
GRSM0063	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/29/75	1	2	
GRSM0070	No	01040	COPPER, DISSOLVED (UG/L AS CU)	06/21/73-01/29/75	1	6	
GRSM0073	No	01040	COPPER, DISSOLVED (UG/L AS CU)	06/21/73-01/29/75	1	6	
GRSM0091	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	10/03/77-03/10/78	0	2	
GRSM0182	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/30/68-02/05/91	22	12	
GRSM0184	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	11/01/67-08/20/91	23	67	
GRSM0249	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/21/70-08/29/72	2	2	
GRSM0253	No	01040	COPPER, DISSOLVED (UG/L AS CU)	06/06/73-06/08/73	0	3	
GRSM0256	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/25/73-10/25/73	0	1	
GRSM0091	Yes	01041	COPPER, SUSPENDED (UG/L AS CU)	10/03/77-03/10/78	0	2	
GRSM0184	Yes	01041	COPPER, SUSPENDED (UG/L AS CU)	10/11/73-03/21/80	6	29	
GRSM0007	No	01042	COPPER, TOTAL (UG/L AS CU)	07/16/74-07/31/79	5	8	
GRSM0009	No	01042	COPPER, TOTAL (UG/L AS CU)	01/02/75-11/17/94	19	101	
GRSM0013	Yes	01042	COPPER, TOTAL (UG/L AS CU)	07/16/74-08/04/82	8	11	
GRSM0014	Yes	01042	COPPER, TOTAL (UG/L AS CU)	08/05/87-08/05/87	0	1	
GRSM0016	Yes	01042	COPPER, TOTAL (UG/L AS CU)	07/16/74-08/04/82	8	11	
GRSM0017	Yes	01042	COPPER, TOTAL (UG/L AS CU)	08/05/87-08/05/87	0	1	
GRSM0022	No	01042	COPPER, TOTAL (UG/L AS CU)	07/16/74-07/31/79	5	8	
GRSM0024	Yes	01042	COPPER, TOTAL (UG/L AS CU)	07/16/74-08/04/82	8	10	
GRSM0025	Yes	01042	COPPER, TOTAL (UG/L AS CU)	08/05/87-08/05/87	0	1	
GRSM0027	Yes	01042	COPPER, TOTAL (UG/L AS CU)	07/16/74-08/04/82	8	11	
GRSM0028	Yes	01042	COPPER, TOTAL (UG/L AS CU)	08/05/87-08/05/87	0	1	
GRSM0037	No	01042	COPPER, TOTAL (UG/L AS CU)	05/29/74-03/12/81	6	17	
GRSM0054	No	01042	COPPER, TOTAL (UG/L AS CU)	02/15/77-10/24/78	1	8	
GRSM0055	No	01042	COPPER, TOTAL (UG/L AS CU)	05/29/74-08/20/86	12	54	
GRSM0057	No	01042	COPPER, TOTAL (UG/L AS CU)	03/17/77-06/17/80	3	18	
GRSM0063	Yes	01042	COPPER, TOTAL (UG/L AS CU)	07/16/74-07/31/79	5	8	
GRSM0064	Yes	01042	COPPER, TOTAL (UG/L AS CU)	08/05/87-08/05/87	0	1	
GRSM0087	No	01042	COPPER, TOTAL (UG/L AS CU)	04/30/67-04/30/67	0	1	
GRSM0091	Yes	01042	COPPER, TOTAL (UG/L AS CU)	10/03/77-03/10/78	0	2	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0094	No	01042	COPPER, TOTAL (UG/L AS CU)	03/26/82-03/26/82	0	1	
GRSM0102	Yes	01042	COPPER, TOTAL (UG/L AS CU)	05/21/68-07/21/68	0	2	
GRSM0108	No	01042	COPPER, TOTAL (UG/L AS CU)	03/26/82-03/26/82	0	1	
GRSM0110	No	01042	COPPER, TOTAL (UG/L AS CU)	03/26/82-03/26/82	0	1	
GRSM0112	No	01042	COPPER, TOTAL (UG/L AS CU)	03/26/82-06/21/82	0	12	
GRSM0115	Yes	01042	COPPER, TOTAL (UG/L AS CU)	08/11/82-08/11/82	0	1	
GRSM0134	Yes	01042	COPPER, TOTAL (UG/L AS CU)	03/26/82-03/26/82	0	1	
GRSM0137	Yes	01042	COPPER, TOTAL (UG/L AS CU)	03/24/82-04/22/82	0	2	
GRSM0138	Yes	01042	COPPER, TOTAL (UG/L AS CU)	03/24/82-03/24/82	0	1	
GRSM0139	Yes	01042	COPPER, TOTAL (UG/L AS CU)	03/22/82-03/22/82	0	1	
GRSM0143	Yes	01042	COPPER, TOTAL (UG/L AS CU)	03/22/82-03/22/82	0	1	
GRSM0145	Yes	01042	COPPER, TOTAL (UG/L AS CU)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	01042	COPPER, TOTAL (UG/L AS CU)	03/24/82-03/24/82	0	1	
GRSM0148	Yes	01042	COPPER, TOTAL (UG/L AS CU)	03/24/82-03/24/82	0	1	
GRSM0150	Yes	01042	COPPER, TOTAL (UG/L AS CU)	03/26/82-03/26/82	0	1	
GRSM0151	Yes	01042	COPPER, TOTAL (UG/L AS CU)	11/28/78-11/28/78	0	1	
GRSM0155	Yes	01042	COPPER, TOTAL (UG/L AS CU)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	01042	COPPER, TOTAL (UG/L AS CU)	11/28/78-11/28/78	0	1	
GRSM0160	Yes	01042	COPPER, TOTAL (UG/L AS CU)	04/20/82-04/20/82	0	1	
GRSM0163	Yes	01042	COPPER, TOTAL (UG/L AS CU)	03/23/82-04/20/82	0	2	
GRSM0167	Yes	01042	COPPER, TOTAL (UG/L AS CU)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	01042	COPPER, TOTAL (UG/L AS CU)	04/21/82-04/21/82	0	1	
GRSM0171	Yes	01042	COPPER, TOTAL (UG/L AS CU)	07/23/81-07/23/81	0	1	
GRSM0173	Yes	01042	COPPER, TOTAL (UG/L AS CU)	03/25/82-03/25/82	0	1	
GRSM0175	Yes	01042	COPPER, TOTAL (UG/L AS CU)	03/25/82-03/25/82	0	1	
GRSM0184	Yes	01042	COPPER, TOTAL (UG/L AS CU)	10/11/73-09/08/82	8	34	
GRSM0185	Yes	01042	COPPER, TOTAL (UG/L AS CU)	05/26/76-11/07/94	18	97	
GRSM0189	Yes	01042	COPPER, TOTAL (UG/L AS CU)	11/28/78-11/28/78	0	1	
GRSM0192	Yes	01042	COPPER, TOTAL (UG/L AS CU)	07/23/81-07/23/81	0	1	
GRSM0202	Yes	01042	COPPER, TOTAL (UG/L AS CU)	01/08/68-03/18/75	7	18	
GRSM0214	No	01042	COPPER, TOTAL (UG/L AS CU)	05/05/78-05/05/78	0	1	
GRSM0216	No	01042	COPPER, TOTAL (UG/L AS CU)	05/04/78-05/04/78	0	1	
GRSM0217	No	01042	COPPER, TOTAL (UG/L AS CU)	05/06/78-05/06/78	0	1	
GRSM0218	No	01042	COPPER, TOTAL (UG/L AS CU)	07/23/81-08/13/81	0	2	
GRSM0219	No	01042	COPPER, TOTAL (UG/L AS CU)	07/23/81-08/13/81	0	2	
GRSM0222	Yes	01042	COPPER, TOTAL (UG/L AS CU)	01/08/68-07/29/68	0	5	
GRSM0225	Yes	01042	COPPER, TOTAL (UG/L AS CU)	08/13/81-08/13/81	0	1	
GRSM0226	Yes	01042	COPPER, TOTAL (UG/L AS CU)	08/13/81-08/13/81	0	1	
GRSM0230	Yes	01042	COPPER, TOTAL (UG/L AS CU)	06/05/80-06/05/80	0	1	
GRSM0234	No	01042	COPPER, TOTAL (UG/L AS CU)	07/23/81-08/13/81	0	2	
GRSM0236	No	01042	COPPER, TOTAL (UG/L AS CU)	07/23/81-08/13/81	0	2	
GRSM0239	No	01042	COPPER, TOTAL (UG/L AS CU)	07/23/81-08/13/81	0	2	
GRSM0250	No	01042	COPPER, TOTAL (UG/L AS CU)	02/08/77-02/08/77	0	1	
GRSM0253	No	01042	COPPER, TOTAL (UG/L AS CU)	06/05/73-06/08/73	0	4	
GRSM0256	No	01042	COPPER, TOTAL (UG/L AS CU)	02/04/74-12/05/94	20	103	
GRSM0262	No	01042	COPPER, TOTAL (UG/L AS CU)	02/23/77-10/11/78	1	8	
GRSM0264	No	01042	COPPER, TOTAL (UG/L AS CU)	10/20/82-12/14/92	10	77	
GRSM0003	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/16/93-08/16/93	0	1	
GRSM0020	Yes	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/16/93-08/16/93	0	1	
GRSM0027	Yes	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/17/80-08/04/82	2	2	
GRSM0035	Yes	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0053	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0055	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	07/15/81-11/29/84	3	5	
GRSM0069	Yes	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/16/93-08/16/93	0	2	
GRSM0097	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0184	Yes	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	03/05/74-09/01/76	2	4	
GRSM0185	Yes	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/26/81-11/29/84	3	5	
GRSM0230	Yes	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/05/80-06/05/80	0	1	
GRSM0256	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/26/81-08/15/85	4	5	
GRSM0184	Yes	01044	IRON, SUSPENDED (UG/L AS FE)	01/30/79-09/08/82	3	8	
GRSM0007	No	01045	IRON, TOTAL (UG/L AS FE)	07/29/75-07/31/79	4	7	
GRSM0009	No	01045	IRON, TOTAL (UG/L AS FE)	01/02/75-11/17/94	19	55	
GRSM0010	No	01045	IRON, TOTAL (UG/L AS FE)	10/19/56-11/08/71	15	52	
GRSM0013	Yes	01045	IRON, TOTAL (UG/L AS FE)	07/29/75-08/04/82	7	10	
GRSM0016	Yes	01045	IRON, TOTAL (UG/L AS FE)	07/29/75-08/04/82	7	10	
GRSM0021	Yes	01045	IRON, TOTAL (UG/L AS FE)	05/03/66-01/31/67	0	9	
GRSM0022	No	01045	IRON, TOTAL (UG/L AS FE)	07/29/75-07/31/79	4	7	
GRSM0024	Yes	01045	IRON, TOTAL (UG/L AS FE)	07/29/75-08/04/82	7	9	
GRSM0027	Yes	01045	IRON, TOTAL (UG/L AS FE)	07/29/75-08/04/82	7	10	
GRSM0036	No	01045	IRON, TOTAL (UG/L AS FE)	02/04/74-01/17/77	2	36	
GRSM0037	No	01045	IRON, TOTAL (UG/L AS FE)	05/29/74-03/12/81	6	17	
GRSM0048	No	01045	IRON, TOTAL (UG/L AS FE)	03/03/74-01/17/77	2	36	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0054	No	01045	IRON, TOTAL (UG/L AS FE)	02/15/77-12/27/78	1	23	
GRSM0055	No	01045	IRON, TOTAL (UG/L AS FE)	05/29/74-09/14/81	7	36	
GRSM0057	No	01045	IRON, TOTAL (UG/L AS FE)	05/04/66-02/26/79	12	59	
GRSM0063	Yes	01045	IRON, TOTAL (UG/L AS FE)	07/29/75-07/31/79	4	7	
GRSM0074	Yes	01045	IRON, TOTAL (UG/L AS FE)	11/06/56-04/13/62	5	8	
GRSM0078	No	01045	IRON, TOTAL (UG/L AS FE)	01/28/74-01/24/77	2	37	
GRSM0084	Yes	01045	IRON, TOTAL (UG/L AS FE)	04/30/68-03/24/69	0	8	
GRSM0087	No	01045	IRON, TOTAL (UG/L AS FE)	01/23/67-03/24/69	2	17	
GRSM0091	Yes	01045	IRON, TOTAL (UG/L AS FE)	10/03/77-03/10/78	0	2	
GRSM0094	No	01045	IRON, TOTAL (UG/L AS FE)	03/26/82-03/26/82	0	1	
GRSM0102	Yes	01045	IRON, TOTAL (UG/L AS FE)	04/30/68-03/24/69	0	8	
GRSM0103	No	01045	IRON, TOTAL (UG/L AS FE)	05/23/91-09/30/91	0	3	
GRSM0105	No	01045	IRON, TOTAL (UG/L AS FE)	04/30/68-03/24/69	0	9	
GRSM0108	No	01045	IRON, TOTAL (UG/L AS FE)	03/26/82-03/26/82	0	1	
GRSM0110	No	01045	IRON, TOTAL (UG/L AS FE)	11/12/81-03/26/82	0	3	
GRSM0111	No	01045	IRON, TOTAL (UG/L AS FE)	12/01/81-12/01/81	0	3	
GRSM0112	No	01045	IRON, TOTAL (UG/L AS FE)	11/12/81-06/21/82	0	101	
GRSM0115	Yes	01045	IRON, TOTAL (UG/L AS FE)	08/11/82-08/11/82	0	1	
GRSM0134	Yes	01045	IRON, TOTAL (UG/L AS FE)	03/26/82-03/26/82	0	1	
GRSM0136	Yes	01045	IRON, TOTAL (UG/L AS FE)	11/12/81-11/12/81	0	1	
GRSM0137	Yes	01045	IRON, TOTAL (UG/L AS FE)	12/02/81-04/22/82	0	3	
GRSM0138	Yes	01045	IRON, TOTAL (UG/L AS FE)	11/12/81-03/24/82	0	3	
GRSM0139	Yes	01045	IRON, TOTAL (UG/L AS FE)	03/22/82-03/22/82	0	1	
GRSM0142	Yes	01045	IRON, TOTAL (UG/L AS FE)	12/02/81-12/02/81	0	1	
GRSM0143	Yes	01045	IRON, TOTAL (UG/L AS FE)	03/22/82-03/22/82	0	1	
GRSM0145	Yes	01045	IRON, TOTAL (UG/L AS FE)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	01045	IRON, TOTAL (UG/L AS FE)	03/24/82-03/24/82	0	1	
GRSM0148	Yes	01045	IRON, TOTAL (UG/L AS FE)	03/24/82-03/24/82	0	1	
GRSM0150	Yes	01045	IRON, TOTAL (UG/L AS FE)	03/26/82-03/26/82	0	1	
GRSM0151	Yes	01045	IRON, TOTAL (UG/L AS FE)	11/28/78-11/28/78	0	2	
GRSM0155	Yes	01045	IRON, TOTAL (UG/L AS FE)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	01045	IRON, TOTAL (UG/L AS FE)	11/28/78-11/28/78	0	2	
GRSM0160	Yes	01045	IRON, TOTAL (UG/L AS FE)	04/20/82-04/20/82	0	1	
GRSM0163	Yes	01045	IRON, TOTAL (UG/L AS FE)	03/23/82-04/20/82	0	2	
GRSM0167	Yes	01045	IRON, TOTAL (UG/L AS FE)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	01045	IRON, TOTAL (UG/L AS FE)	04/21/82-04/21/82	0	1	
GRSM0171	Yes	01045	IRON, TOTAL (UG/L AS FE)	07/23/81-07/23/81	0	1	
GRSM0173	Yes	01045	IRON, TOTAL (UG/L AS FE)	03/25/82-03/25/82	0	1	
GRSM0175	Yes	01045	IRON, TOTAL (UG/L AS FE)	12/02/81-03/25/82	0	2	
GRSM0184	Yes	01045	IRON, TOTAL (UG/L AS FE)	08/07/68-09/08/82	14	36	
GRSM0185	Yes	01045	IRON, TOTAL (UG/L AS FE)	05/26/76-11/07/94	18	57	
GRSM0189	Yes	01045	IRON, TOTAL (UG/L AS FE)	11/28/78-11/28/78	0	2	
GRSM0192	Yes	01045	IRON, TOTAL (UG/L AS FE)	07/23/81-07/23/81	0	1	
GRSM0202	Yes	01045	IRON, TOTAL (UG/L AS FE)	01/08/68-03/18/75	7	18	
GRSM0214	No	01045	IRON, TOTAL (UG/L AS FE)	05/05/78-05/05/78	0	1	
GRSM0216	No	01045	IRON, TOTAL (UG/L AS FE)	05/04/78-05/04/78	0	1	
GRSM0217	No	01045	IRON, TOTAL (UG/L AS FE)	05/06/78-05/06/78	0	1	
GRSM0218	No	01045	IRON, TOTAL (UG/L AS FE)	07/23/81-08/13/81	0	2	
GRSM0219	No	01045	IRON, TOTAL (UG/L AS FE)	07/23/81-08/13/81	0	2	
GRSM0222	Yes	01045	IRON, TOTAL (UG/L AS FE)	01/08/68-07/29/68	0	5	
GRSM0225	Yes	01045	IRON, TOTAL (UG/L AS FE)	08/13/81-08/13/81	0	1	
GRSM0226	Yes	01045	IRON, TOTAL (UG/L AS FE)	08/13/81-08/13/81	0	1	
GRSM0234	No	01045	IRON, TOTAL (UG/L AS FE)	07/23/81-08/13/81	0	2	
GRSM0236	No	01045	IRON, TOTAL (UG/L AS FE)	07/23/81-08/13/81	0	2	
GRSM0239	No	01045	IRON, TOTAL (UG/L AS FE)	07/23/81-08/13/81	0	2	
GRSM0244	No	01045	IRON, TOTAL (UG/L AS FE)	10/10/67-12/06/68	1	15	
GRSM0249	No	01045	IRON, TOTAL (UG/L AS FE)	10/17/57-08/28/69	11	49	
GRSM0250	No	01045	IRON, TOTAL (UG/L AS FE)	10/21/75-02/08/77	1	17	
GRSM0251	No	01045	IRON, TOTAL (UG/L AS FE)	11/18/75-09/07/76	0	12	
GRSM0253	No	01045	IRON, TOTAL (UG/L AS FE)	06/05/73-06/08/73	0	4	
GRSM0256	No	01045	IRON, TOTAL (UG/L AS FE)	10/25/73-12/05/94	21	64	
GRSM0262	No	01045	IRON, TOTAL (UG/L AS FE)	02/23/77-10/11/78	1	12	
GRSM0264	No	01045	IRON, TOTAL (UG/L AS FE)	10/13/83-12/14/92	9	59	
GRSM0010	No	01046	IRON, DISSOLVED (UG/L AS FE)	11/06/70-05/09/72	1	7	
GRSM0031	No	01046	IRON, DISSOLVED (UG/L AS FE)	01/23/73-09/06/73	0	3	
GRSM0054	No	01046	IRON, DISSOLVED (UG/L AS FE)	02/15/77-12/27/78	1	22	
GRSM0056	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/21/68-05/24/72	4	11	
GRSM0057	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/20/79-06/17/80	1	9	
GRSM0076	No	01046	IRON, DISSOLVED (UG/L AS FE)	09/25/68-09/25/68	0	1	
GRSM0084	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	04/30/68-03/24/69	0	7	
GRSM0087	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/02/68-02/19/69	0	7	
GRSM0091	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/03/77-03/10/78	0	2	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0102	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	04/30/68-03/24/69	0	8	
GRSM0105	No	01046	IRON, DISSOLVED (UG/L AS FE)	04/30/68-03/24/69	0	9	
GRSM0107	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/24/68-09/24/68	0	1	
GRSM0120	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/24/68-09/24/68	0	1	
GRSM0125	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/29/91-10/29/91	0	1	
GRSM0129	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/29/91-10/29/91	0	1	
GRSM0132	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/31/91-10/31/91	0	1	
GRSM0135	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/30/91-10/30/91	0	1	
GRSM0140	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/30/91-10/30/91	0	1	
GRSM0144	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/25/68-09/25/68	0	1	
GRSM0147	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/29/91-10/29/91	0	1	
GRSM0149	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/29/91-10/29/91	0	1	
GRSM0153	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/30/91-10/30/91	0	1	
GRSM0154	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/31/91-10/31/91	0	1	
GRSM0156	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/31/91-10/31/91	0	1	
GRSM0158	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/31/91-10/31/91	0	1	
GRSM0159	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/31/91-10/31/91	0	1	
GRSM0161	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/25/68-09/25/68	0	1	
GRSM0162	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/31/91-10/31/91	0	1	
GRSM0164	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/25/68-09/25/68	0	1	
GRSM0165	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/31/91-10/31/91	0	1	
GRSM0170	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/29/91-10/29/91	0	1	
GRSM0172	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/31/91-10/31/91	0	1	
GRSM0174	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/29/91-10/29/91	0	1	
GRSM0176	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/30/91-10/30/91	0	1	
GRSM0178	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/24/68-09/24/68	0	1	
GRSM0179	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/30/91-10/30/91	0	1	
GRSM0180	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/30/91-10/30/91	0	1	
GRSM0182	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	08/10/63-11/22/94	31	43	S
GRSM0183	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/29/91-10/29/91	0	1	
GRSM0184	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	11/01/67-05/11/93	25	82	S
GRSM0186	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	04/23/76-04/23/76	0	1	
GRSM0202	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	01/08/68-03/18/75	7	19	
GRSM0214	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/05/78-05/05/78	0	1	
GRSM0216	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/04/78-05/04/78	0	1	
GRSM0217	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/06/78-05/06/78	0	1	
GRSM0221	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/25/68-09/25/68	0	1	
GRSM0222	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	01/08/68-07/29/68	0	5	
GRSM0223	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	02/01/68-08/01/68	0	3	
GRSM0227	No	01046	IRON, DISSOLVED (UG/L AS FE)	09/25/68-09/25/68	0	1	
GRSM0240	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/24/68-09/24/68	0	1	
GRSM0249	No	01046	IRON, DISSOLVED (UG/L AS FE)	06/27/68-03/28/73	4	14	
GRSM0250	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/21/75-02/08/77	1	16	
GRSM0251	No	01046	IRON, DISSOLVED (UG/L AS FE)	11/18/75-09/07/76	0	11	
GRSM0253	No	01046	IRON, DISSOLVED (UG/L AS FE)	06/06/73-06/08/73	0	3	
GRSM0262	No	01046	IRON, DISSOLVED (UG/L AS FE)	02/23/77-10/11/78	1	12	
GRSM0021	Yes	01047	IRON, FERROUS (UG/L AS FE)	05/03/66-01/31/67	0	9	
GRSM0057	No	01047	IRON, FERROUS (UG/L AS FE)	05/04/66-01/30/67	0	8	
GRSM0084	Yes	01047	IRON, FERROUS (UG/L AS FE)	04/30/68-03/24/69	0	8	
GRSM0087	No	01047	IRON, FERROUS (UG/L AS FE)	01/23/67-03/24/69	2	17	
GRSM0102	Yes	01047	IRON, FERROUS (UG/L AS FE)	04/30/68-03/24/69	0	8	
GRSM0105	No	01047	IRON, FERROUS (UG/L AS FE)	04/30/68-03/24/69	0	8	
GRSM0202	Yes	01047	IRON, FERROUS (UG/L AS FE)	01/08/68-03/18/75	7	18	
GRSM0222	Yes	01047	IRON, FERROUS (UG/L AS FE)	01/08/68-07/29/68	0	6	
GRSM0091	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	10/03/77-03/10/78	0	2	
GRSM0182	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/30/68-02/05/91	22	13	
GRSM0184	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	11/01/67-08/20/91	23	66	
GRSM0186	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	04/23/76-04/23/76	0	1	
GRSM0249	No	01049	LEAD, DISSOLVED (UG/L AS PB)	07/21/70-08/29/72	2	2	
GRSM0091	Yes	01050	LEAD, SUSPENDED (UG/L AS PB)	10/03/77-03/10/78	0	2	
GRSM0184	Yes	01050	LEAD, SUSPENDED (UG/L AS PB)	10/11/73-02/09/81	7	30	
GRSM0007	No	01051	LEAD, TOTAL (UG/L AS PB)	07/16/74-07/31/79	5	8	
GRSM0009	No	01051	LEAD, TOTAL (UG/L AS PB)	01/02/75-11/17/94	19	100	
GRSM0013	Yes	01051	LEAD, TOTAL (UG/L AS PB)	07/16/74-08/04/82	8	11	
GRSM0014	Yes	01051	LEAD, TOTAL (UG/L AS PB)	08/05/87-08/05/87	0	1	
GRSM0016	Yes	01051	LEAD, TOTAL (UG/L AS PB)	07/16/74-08/04/82	8	11	
GRSM0017	Yes	01051	LEAD, TOTAL (UG/L AS PB)	08/05/87-08/05/87	0	1	
GRSM0022	No	01051	LEAD, TOTAL (UG/L AS PB)	07/16/74-07/31/79	5	8	
GRSM0024	Yes	01051	LEAD, TOTAL (UG/L AS PB)	07/16/74-08/04/82	8	10	
GRSM0025	Yes	01051	LEAD, TOTAL (UG/L AS PB)	08/05/87-08/05/87	0	1	
GRSM0027	Yes	01051	LEAD, TOTAL (UG/L AS PB)	07/16/74-08/04/82	8	11	
GRSM0028	Yes	01051	LEAD, TOTAL (UG/L AS PB)	08/05/87-08/05/87	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0037	No	01051	LEAD, TOTAL (UG/L AS PB)	05/29/74-03/12/81	6	17	
GRSM0054	No	01051	LEAD, TOTAL (UG/L AS PB)	02/15/77-10/24/78	1	8	
GRSM0055	No	01051	LEAD, TOTAL (UG/L AS PB)	05/29/74-08/20/86	12	53	
GRSM0057	No	01051	LEAD, TOTAL (UG/L AS PB)	03/17/77-06/17/80	3	18	
GRSM0063	Yes	01051	LEAD, TOTAL (UG/L AS PB)	07/16/74-07/31/79	5	8	
GRSM0064	Yes	01051	LEAD, TOTAL (UG/L AS PB)	08/05/87-08/05/87	0	1	
GRSM0091	Yes	01051	LEAD, TOTAL (UG/L AS PB)	10/03/77-03/10/78	0	2	
GRSM0151	Yes	01051	LEAD, TOTAL (UG/L AS PB)	11/28/78-11/28/78	0	1	
GRSM0155	Yes	01051	LEAD, TOTAL (UG/L AS PB)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	01051	LEAD, TOTAL (UG/L AS PB)	11/28/78-11/28/78	0	1	
GRSM0171	Yes	01051	LEAD, TOTAL (UG/L AS PB)	07/23/81-07/23/81	0	1	
GRSM0184	Yes	01051	LEAD, TOTAL (UG/L AS PB)	10/11/73-09/08/82	8	34	
GRSM0185	Yes	01051	LEAD, TOTAL (UG/L AS PB)	05/26/76-11/07/94	18	97	
GRSM0189	Yes	01051	LEAD, TOTAL (UG/L AS PB)	11/28/78-11/28/78	0	1	
GRSM0192	Yes	01051	LEAD, TOTAL (UG/L AS PB)	07/23/81-07/23/81	0	1	
GRSM0202	Yes	01051	LEAD, TOTAL (UG/L AS PB)	04/24/74-01/14/75	0	5	
GRSM0214	No	01051	LEAD, TOTAL (UG/L AS PB)	05/05/78-05/05/78	0	1	
GRSM0216	No	01051	LEAD, TOTAL (UG/L AS PB)	05/04/78-05/04/78	0	1	
GRSM0217	No	01051	LEAD, TOTAL (UG/L AS PB)	05/06/78-05/06/78	0	1	
GRSM0218	No	01051	LEAD, TOTAL (UG/L AS PB)	07/23/81-08/13/81	0	2	
GRSM0219	No	01051	LEAD, TOTAL (UG/L AS PB)	07/23/81-08/13/81	0	2	
GRSM0225	Yes	01051	LEAD, TOTAL (UG/L AS PB)	08/13/81-08/13/81	0	1	
GRSM0226	Yes	01051	LEAD, TOTAL (UG/L AS PB)	08/13/81-08/13/81	0	1	
GRSM0230	Yes	01051	LEAD, TOTAL (UG/L AS PB)	06/05/80-06/05/80	0	1	
GRSM0234	No	01051	LEAD, TOTAL (UG/L AS PB)	07/23/81-08/13/81	0	2	
GRSM0236	No	01051	LEAD, TOTAL (UG/L AS PB)	07/23/81-08/13/81	0	2	
GRSM0239	No	01051	LEAD, TOTAL (UG/L AS PB)	07/23/81-08/13/81	0	2	
GRSM0250	No	01051	LEAD, TOTAL (UG/L AS PB)	02/08/77-02/08/77	0	1	
GRSM0256	No	01051	LEAD, TOTAL (UG/L AS PB)	02/04/74-12/05/94	20	103	
GRSM0262	No	01051	LEAD, TOTAL (UG/L AS PB)	02/23/77-10/11/78	1	8	
GRSM0264	No	01051	LEAD, TOTAL (UG/L AS PB)	10/20/82-12/14/92	10	76	
GRSM0003	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/16/93-08/16/93	0	1	
GRSM0020	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/16/93-08/16/93	0	1	
GRSM0027	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/17/80-08/04/82	2	2	
GRSM0035	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0053	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0055	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	07/15/81-11/29/84	3	5	
GRSM0069	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/16/93-08/16/93	0	2	
GRSM0097	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0151	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	11/28/78-11/28/78	0	1	
GRSM0155	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	11/28/78-11/28/78	0	1	
GRSM0184	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	03/05/74-09/01/76	2	4	
GRSM0185	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	11/28/78-11/29/84	6	6	
GRSM0189	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	11/28/78-11/28/78	0	1	
GRSM0230	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/05/80-06/05/80	0	1	
GRSM0256	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/26/81-08/15/85	4	5	
GRSM0003	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/16/93-08/16/93	0	1	
GRSM0020	Yes	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/16/93-08/16/93	0	1	
GRSM0027	Yes	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/17/80-06/17/80	0	1	
GRSM0035	Yes	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0053	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0069	Yes	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/16/93-08/16/93	0	2	
GRSM0097	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0184	Yes	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	03/05/74-06/14/74	0	2	
GRSM0230	Yes	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/05/80-06/05/80	0	1	
GRSM0184	Yes	01054	MANGANESE, SUSPENDED (UG/L AS MN)	10/11/73-10/15/80	7	13	
GRSM0007	No	01055	MANGANESE, TOTAL (UG/L AS MN)	07/29/75-07/31/79	4	7	
GRSM0009	No	01055	MANGANESE, TOTAL (UG/L AS MN)	01/02/75-11/17/94	19	42	
GRSM0013	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	07/29/75-08/04/82	7	10	
GRSM0016	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	07/29/75-08/04/82	7	10	
GRSM0021	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	05/03/66-01/31/67	0	9	
GRSM0022	No	01055	MANGANESE, TOTAL (UG/L AS MN)	07/29/75-07/31/79	4	7	
GRSM0024	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	07/29/75-08/04/82	7	9	
GRSM0027	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	07/29/75-08/04/82	7	10	
GRSM0036	No	01055	MANGANESE, TOTAL (UG/L AS MN)	02/04/74-01/17/77	2	36	
GRSM0037	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/29/74-03/12/81	6	16	
GRSM0048	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/03/74-01/17/77	2	36	
GRSM0054	No	01055	MANGANESE, TOTAL (UG/L AS MN)	02/15/77-12/27/78	1	23	
GRSM0055	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/29/74-09/14/81	7	34	
GRSM0057	No	01055	MANGANESE, TOTAL (UG/L AS MN)	06/06/66-02/26/79	12	57	
GRSM0063	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	07/29/75-07/31/79	4	7	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0078	No	01055	MANGANESE, TOTAL (UG/L AS MN)	01/28/74-01/24/77	2	37	
GRSM0084	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	04/30/68-03/24/69	0	8	
GRSM0087	No	01055	MANGANESE, TOTAL (UG/L AS MN)	01/23/67-03/24/69	2	17	
GRSM0094	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/26/82-03/26/82	0	1	
GRSM0102	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	04/30/68-03/24/69	0	8	
GRSM0103	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/23/91-09/30/91	0	2	
GRSM0105	No	01055	MANGANESE, TOTAL (UG/L AS MN)	04/30/68-03/24/69	0	9	
GRSM0108	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/26/82-03/26/82	0	1	
GRSM0110	No	01055	MANGANESE, TOTAL (UG/L AS MN)	11/12/81-03/26/82	0	3	
GRSM0111	No	01055	MANGANESE, TOTAL (UG/L AS MN)	12/01/81-12/01/81	0	3	
GRSM0112	No	01055	MANGANESE, TOTAL (UG/L AS MN)	11/12/81-06/21/82	0	101	
GRSM0115	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	08/11/82-08/11/82	0	1	
GRSM0134	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	03/26/82-03/26/82	0	1	
GRSM0136	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	11/12/81-11/12/81	0	1	
GRSM0137	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	12/02/81-04/22/82	0	3	
GRSM0138	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	11/12/81-03/24/82	0	3	
GRSM0139	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	03/22/82-03/22/82	0	1	
GRSM0142	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	12/02/81-12/02/81	0	1	
GRSM0143	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	03/22/82-03/22/82	0	1	
GRSM0145	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	03/24/82-03/24/82	0	1	
GRSM0148	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	03/24/82-03/24/82	0	1	
GRSM0150	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	03/26/82-03/26/82	0	1	
GRSM0151	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	11/28/78-11/28/78	0	2	
GRSM0155	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	11/28/78-11/28/78	0	2	
GRSM0160	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	04/20/82-04/20/82	0	1	
GRSM0163	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	03/23/82-04/20/82	0	2	
GRSM0167	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	04/21/82-04/21/82	0	1	
GRSM0171	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	07/23/81-07/23/81	0	1	
GRSM0173	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	03/25/82-03/25/82	0	1	
GRSM0175	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	12/02/81-03/25/82	0	2	
GRSM0182	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	11/03/65-10/12/67	1	4	
GRSM0184	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	02/01/68-09/08/82	14	28	
GRSM0185	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	05/26/76-10/25/93	17	35	
GRSM0189	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	11/28/78-11/28/78	0	1	
GRSM0192	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	07/23/81-07/23/81	0	1	
GRSM0202	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	01/08/68-03/18/75	7	18	
GRSM0214	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/05/78-05/05/78	0	1	
GRSM0216	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/04/78-05/04/78	0	1	
GRSM0217	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/06/78-05/06/78	0	1	
GRSM0218	No	01055	MANGANESE, TOTAL (UG/L AS MN)	07/23/81-08/13/81	0	2	
GRSM0219	No	01055	MANGANESE, TOTAL (UG/L AS MN)	07/23/81-08/13/81	0	2	
GRSM0222	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	01/08/68-07/29/68	0	5	
GRSM0225	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	08/13/81-08/13/81	0	1	
GRSM0226	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	08/13/81-08/13/81	0	1	
GRSM0230	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	06/05/80-06/05/80	0	1	
GRSM0234	No	01055	MANGANESE, TOTAL (UG/L AS MN)	07/23/81-08/13/81	0	2	
GRSM0236	No	01055	MANGANESE, TOTAL (UG/L AS MN)	07/23/81-08/13/81	0	2	
GRSM0239	No	01055	MANGANESE, TOTAL (UG/L AS MN)	07/23/81-08/13/81	0	2	
GRSM0244	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/10/67-12/06/68	1	15	
GRSM0250	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/21/75-02/08/77	1	17	
GRSM0251	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/21/75-09/07/76	0	12	
GRSM0253	No	01055	MANGANESE, TOTAL (UG/L AS MN)	06/05/73-06/08/73	0	4	
GRSM0256	No	01055	MANGANESE, TOTAL (UG/L AS MN)	02/04/74-10/25/93	19	41	
GRSM0262	No	01055	MANGANESE, TOTAL (UG/L AS MN)	02/23/77-10/11/78	1	12	
GRSM0264	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/13/83-12/14/92	9	59	
GRSM0050	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/20/84-11/20/84	0	1	
GRSM0052	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/20/84-11/20/84	0	1	
GRSM0054	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	02/15/77-12/27/78	1	22	
GRSM0057	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/20/79-06/17/80	1	9	
GRSM0071	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/25/85-07/11/85	0	4	
GRSM0080	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/20/84-11/20/84	0	1	
GRSM0081	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/25/85-07/08/85	0	4	
GRSM0084	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/30/68-03/24/69	0	8	
GRSM0086	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/20/85-07/03/85	0	4	
GRSM0087	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/02/68-02/19/69	0	6	
GRSM0095	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/03/85-07/03/85	0	1	
GRSM0099	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/22/85-07/16/85	0	2	
GRSM0100	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/08/85-07/08/85	0	1	
GRSM0102	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/30/68-03/24/69	0	6	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0105	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/30/68-03/24/69	0	9	
GRSM0106	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/25/85-07/16/85	0	4	
GRSM0125	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/91-10/29/91	0	1	
GRSM0129	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/91-10/29/91	0	1	
GRSM0132	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/31/91-10/31/91	0	1	
GRSM0135	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/30/91-10/30/91	0	1	
GRSM0140	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/30/91-10/30/91	0	1	
GRSM0147	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/91-10/29/91	0	1	
GRSM0149	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/91-10/29/91	0	1	
GRSM0152	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/10/85-07/10/85	0	1	
GRSM0153	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/30/91-10/30/91	0	1	
GRSM0154	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/31/91-10/31/91	0	1	
GRSM0156	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/31/91-10/31/91	0	1	
GRSM0158	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/31/91-10/31/91	0	1	
GRSM0159	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/31/91-10/31/91	0	1	
GRSM0162	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/31/91-10/31/91	0	1	
GRSM0165	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/31/91-10/31/91	0	1	
GRSM0170	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/91-10/29/91	0	1	
GRSM0172	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/31/91-10/31/91	0	1	
GRSM0174	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/91-10/29/91	0	1	
GRSM0176	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/30/91-10/30/91	0	1	
GRSM0177	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/20/84-11/20/84	0	1	
GRSM0179	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/30/91-10/30/91	0	1	
GRSM0180	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/30/91-10/30/91	0	1	
GRSM0182	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/10/63-11/22/94	31	42	S
GRSM0183	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/91-10/29/91	0	1	
GRSM0184	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/21/69-05/11/93	23	56	
GRSM0186	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/23/76-04/23/76	0	1	
GRSM0190	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/27/85-07/10/85	0	4	
GRSM0191	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/20/84-11/20/84	0	1	
GRSM0194	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/25/85-07/08/85	0	4	
GRSM0195	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/16/85-07/16/85	0	1	
GRSM0202	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/08/68-03/18/75	7	19	
GRSM0206	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/08/85-07/08/85	0	1	
GRSM0208	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/29/84-11/29/84	0	1	
GRSM0213	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/28/85-07/16/85	0	4	
GRSM0214	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/05/78-05/05/78	0	1	
GRSM0216	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/04/78-05/04/78	0	1	
GRSM0217	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/06/78-05/06/78	0	1	
GRSM0222	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/08/68-06/27/68	0	4	
GRSM0237	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/28/85-07/10/85	0	4	
GRSM0249	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/21/70-07/21/70	0	1	
GRSM0250	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/21/75-02/08/77	1	16	
GRSM0251	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/21/75-09/07/76	0	11	
GRSM0253	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/06/73-06/08/73	0	3	
GRSM0255	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/07/85-07/07/85	0	1	
GRSM0256	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/25/73-10/25/73	0	1	
GRSM0259	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/24/85-07/07/85	0	4	
GRSM0262	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	02/23/77-10/11/78	1	12	
GRSM0182	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/17/85-11/22/94	9	24	
GRSM0184	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/22/79-05/11/93	13	43	
GRSM0239	No	01061	MOLYBDENUM, SUSPENDED (UG/L AS MO)	07/23/81-07/23/81	0	1	
GRSM0009	No	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	01/02/75-08/09/77	2	3	
GRSM0230	Yes	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	06/05/80-06/05/80	0	1	
GRSM0035	Yes	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0053	No	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0097	No	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0230	Yes	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	06/05/80-06/05/80	0	1	
GRSM0037	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	06/25/73-06/25/73	0	1	
GRSM0070	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/16/74-09/16/74	0	1	
GRSM0073	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/16/74-01/29/75	0	2	
GRSM0182	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/30/68-11/22/94	26	25	S
GRSM0184	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	11/01/67-05/11/93	25	40	S
GRSM0007	No	01067	NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	0	1	
GRSM0009	No	01067	NICKEL, TOTAL (UG/L AS NI)	09/23/75-11/17/94	19	83	
GRSM0013	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	0	1	
GRSM0014	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	08/05/87-08/05/87	0	1	
GRSM0016	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	0	1	
GRSM0017	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	08/05/87-08/05/87	0	1	
GRSM0022	No	01067	NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	0	1	
GRSM0024	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	0	1	
GRSM0025	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	08/05/87-08/05/87	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0027	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	0	1	
GRSM0028	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	08/05/87-08/05/87	0	1	
GRSM0037	No	01067	NICKEL, TOTAL (UG/L AS NI)	05/17/77-03/12/81	3	4	
GRSM0054	No	01067	NICKEL, TOTAL (UG/L AS NI)	02/15/77-10/24/78	1	8	
GRSM0055	No	01067	NICKEL, TOTAL (UG/L AS NI)	02/15/77-08/20/86	9	33	
GRSM0057	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/17/77-02/26/79	1	9	
GRSM0063	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	0	1	
GRSM0064	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	08/05/87-08/05/87	0	1	
GRSM0070	No	01067	NICKEL, TOTAL (UG/L AS NI)	07/29/68-10/16/69	1	3	
GRSM0073	No	01067	NICKEL, TOTAL (UG/L AS NI)	07/29/68-10/16/69	1	3	
GRSM0094	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/26/82-03/26/82	0	1	
GRSM0108	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/26/82-03/26/82	0	1	
GRSM0110	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/26/82-03/26/82	0	1	
GRSM0112	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/26/82-06/21/82	0	12	
GRSM0115	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	08/11/82-08/11/82	0	1	
GRSM0134	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	03/26/82-03/26/82	0	1	
GRSM0137	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	03/24/82-04/22/82	0	2	
GRSM0138	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	03/24/82-03/24/82	0	1	
GRSM0139	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	03/22/82-03/22/82	0	1	
GRSM0143	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	03/22/82-03/22/82	0	1	
GRSM0145	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	03/24/82-03/24/82	0	1	
GRSM0148	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	03/24/82-03/24/82	0	1	
GRSM0150	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	03/26/82-03/26/82	0	1	
GRSM0160	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	04/20/82-04/20/82	0	1	
GRSM0163	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	03/23/82-04/20/82	0	2	
GRSM0167	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	04/21/82-04/21/82	0	1	
GRSM0171	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	07/23/81-07/23/81	0	1	
GRSM0173	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	03/25/82-03/25/82	0	1	
GRSM0175	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	03/25/82-03/25/82	0	1	
GRSM0185	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	05/26/76-11/07/94	18	82	
GRSM0192	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	07/23/81-07/23/81	0	1	
GRSM0202	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	04/24/74-01/14/75	0	5	
GRSM0218	No	01067	NICKEL, TOTAL (UG/L AS NI)	07/23/81-08/13/81	0	2	
GRSM0219	No	01067	NICKEL, TOTAL (UG/L AS NI)	07/23/81-08/13/81	0	2	
GRSM0225	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	08/13/81-08/13/81	0	1	
GRSM0226	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	08/13/81-08/13/81	0	1	
GRSM0230	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	06/05/80-06/05/80	0	1	
GRSM0234	No	01067	NICKEL, TOTAL (UG/L AS NI)	07/23/81-08/13/81	0	2	
GRSM0236	No	01067	NICKEL, TOTAL (UG/L AS NI)	07/23/81-08/13/81	0	2	
GRSM0239	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/13/81-08/13/81	0	1	
GRSM0250	No	01067	NICKEL, TOTAL (UG/L AS NI)	02/08/77-02/08/77	0	1	
GRSM0256	No	01067	NICKEL, TOTAL (UG/L AS NI)	05/26/76-12/05/94	18	82	
GRSM0262	No	01067	NICKEL, TOTAL (UG/L AS NI)	02/23/77-10/11/78	1	8	
GRSM0264	No	01067	NICKEL, TOTAL (UG/L AS NI)	02/16/83-12/14/92	9	12	
GRSM0003	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	0	1	
GRSM0020	Yes	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	0	1	
GRSM0027	Yes	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/17/80-08/04/82	2	2	
GRSM0035	Yes	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0053	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0055	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/05/81-11/29/84	3	4	
GRSM0069	Yes	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	0	2	
GRSM0097	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0185	Yes	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/17/81-11/29/84	3	4	
GRSM0230	Yes	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/05/80-06/05/80	0	1	
GRSM0256	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	02/23/82-08/15/85	3	4	
GRSM0005	No	01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	09/23/87-11/25/88	1	3	
GRSM0035	Yes	01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	09/23/87-11/25/88	1	3	
GRSM0055	No	01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	02/22/82-02/22/82	0	2	
GRSM0185	Yes	01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	10/24/84-10/24/84	0	9	
GRSM0231	Yes	01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	06/09/80-06/09/80	0	1	
GRSM0256	No	01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	02/23/82-08/28/84	2	6	
GRSM0005	No	01073	THALLIUM,TISSUE,WET WEIGHT,MG/KG	09/23/87-11/25/88	1	3	
GRSM0035	Yes	01073	THALLIUM,TISSUE,WET WEIGHT,MG/KG	09/23/87-11/25/88	1	3	
GRSM0007	No	01075	SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/29/75	1	2	
GRSM0011	No	01075	SILVER, DISSOLVED (UG/L AS AG)	12/10/74-12/10/74	0	1	
GRSM0013	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/30/75	1	7	
GRSM0016	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/29/75	1	2	
GRSM0022	No	01075	SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/29/75	1	2	
GRSM0024	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/30/75	1	5	
GRSM0027	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/29/75	1	2	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0037	No	01075	SILVER, DISSOLVED (UG/L AS AG)	06/25/73-06/25/73	0	1	
GRSM0055	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/69-06/25/73	3	5	
GRSM0059	No	01075	SILVER, DISSOLVED (UG/L AS AG)	08/14/68-06/25/73	4	4	
GRSM0063	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/29/75	1	2	
GRSM0070	No	01075	SILVER, DISSOLVED (UG/L AS AG)	08/26/71-01/29/75	3	5	
GRSM0073	No	01075	SILVER, DISSOLVED (UG/L AS AG)	08/26/71-01/29/75	3	5	
GRSM0182	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	09/30/68-11/22/94	26	25	S
GRSM0184	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	10/22/79-05/11/93	13	43	
GRSM0184	Yes	01076	SILVER, SUSPENDED (UG/L AS AG)	10/22/79-06/23/81	1	5	
GRSM0009	No	01077	SILVER, TOTAL (UG/L AS AG)	11/18/75-12/21/89	14	7	
GRSM0054	No	01077	SILVER, TOTAL (UG/L AS AG)	02/15/77-08/09/77	0	3	
GRSM0055	No	01077	SILVER, TOTAL (UG/L AS AG)	08/09/77-08/09/77	0	1	
GRSM0057	No	01077	SILVER, TOTAL (UG/L AS AG)	03/17/77-09/19/77	0	3	
GRSM0184	Yes	01077	SILVER, TOTAL (UG/L AS AG)	05/07/74-09/08/82	8	13	
GRSM0202	Yes	01077	SILVER, TOTAL (UG/L AS AG)	04/24/74-01/14/75	0	5	
GRSM0214	No	01077	SILVER, TOTAL (UG/L AS AG)	05/05/78-05/05/78	0	1	
GRSM0216	No	01077	SILVER, TOTAL (UG/L AS AG)	05/04/78-05/04/78	0	1	
GRSM0217	No	01077	SILVER, TOTAL (UG/L AS AG)	05/06/78-05/06/78	0	1	
GRSM0230	Yes	01077	SILVER, TOTAL (UG/L AS AG)	06/05/80-06/05/80	0	1	
GRSM0250	No	01077	SILVER, TOTAL (UG/L AS AG)	02/08/77-02/08/77	0	1	
GRSM0262	No	01077	SILVER, TOTAL (UG/L AS AG)	02/23/77-08/09/77	0	3	
GRSM0035	Yes	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0053	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0097	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0230	Yes	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/05/80-06/05/80	0	1	
GRSM0182	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/30/68-11/22/94	26	25	S
GRSM0184	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	02/01/68-05/11/93	25	47	S
GRSM0186	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	04/23/76-04/23/76	0	1	
GRSM0230	Yes	01082	STRONTIUM, TOTAL (UG/L AS SR)	06/05/80-06/05/80	0	1	
GRSM0035	Yes	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0053	No	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0097	No	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0230	Yes	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	06/05/80-06/05/80	0	1	
GRSM0182	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/17/85-11/22/94	9	24	
GRSM0184	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/22/79-05/11/93	13	43	
GRSM0009	No	01087	VANADIUM, TOTAL (UG/L AS V)	12/08/75-08/09/77	1	2	
GRSM0230	Yes	01087	VANADIUM, TOTAL (UG/L AS V)	06/05/80-06/05/80	0	1	
GRSM0035	Yes	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0053	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0097	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0230	Yes	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/05/80-06/05/80	0	1	
GRSM0011	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/29/68-07/28/71	2	7	
GRSM0070	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/29/68-01/29/75	6	10	
GRSM0073	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/29/68-01/29/75	6	10	
GRSM0091	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/03/77-03/10/78	0	2	
GRSM0182	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/30/68-02/05/91	22	13	
GRSM0184	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	11/01/67-08/20/91	23	66	
GRSM0186	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/23/76-04/23/76	0	1	
GRSM0249	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/21/70-08/29/72	2	2	
GRSM0256	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/25/73-10/25/73	0	1	
GRSM0091	Yes	01091	ZINC, SUSPENDED (UG/L ZN)	10/03/77-03/10/78	0	2	
GRSM0184	Yes	01091	ZINC, SUSPENDED (UG/L ZN)	10/11/73-03/21/80	6	28	
GRSM0007	No	01092	ZINC, TOTAL (UG/L AS ZN)	07/16/74-07/31/79	5	8	
GRSM0009	No	01092	ZINC, TOTAL (UG/L AS ZN)	01/02/75-11/17/94	19	100	
GRSM0013	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	07/16/74-08/04/82	8	11	
GRSM0014	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	08/05/87-08/05/87	0	1	
GRSM0016	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	07/16/74-08/04/82	8	11	
GRSM0017	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	08/05/87-08/05/87	0	1	
GRSM0022	No	01092	ZINC, TOTAL (UG/L AS ZN)	07/16/74-07/31/79	5	8	
GRSM0024	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	07/16/74-08/04/82	8	10	
GRSM0025	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	08/05/87-08/05/87	0	1	
GRSM0027	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	07/16/74-08/04/82	8	11	
GRSM0028	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	08/05/87-08/05/87	0	1	
GRSM0037	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/29/74-03/12/81	6	17	
GRSM0054	No	01092	ZINC, TOTAL (UG/L AS ZN)	02/15/77-10/24/78	1	8	
GRSM0055	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/29/74-08/20/86	12	53	
GRSM0057	No	01092	ZINC, TOTAL (UG/L AS ZN)	01/30/67-06/17/80	13	19	
GRSM0063	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	07/16/74-07/31/79	5	8	
GRSM0064	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	08/05/87-08/05/87	0	1	
GRSM0087	No	01092	ZINC, TOTAL (UG/L AS ZN)	04/30/67-04/30/67	0	1	
GRSM0091	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	10/03/77-03/10/78	0	2	
GRSM0094	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/26/82-03/26/82	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0102	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	05/21/68-07/21/68	0	2	
GRSM0108	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/26/82-03/26/82	0	1	
GRSM0110	No	01092	ZINC, TOTAL (UG/L AS ZN)	11/12/81-03/26/82	0	3	
GRSM0111	No	01092	ZINC, TOTAL (UG/L AS ZN)	12/01/81-12/01/81	0	3	
GRSM0112	No	01092	ZINC, TOTAL (UG/L AS ZN)	11/12/81-06/21/82	0	47	
GRSM0115	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	08/11/82-08/11/82	0	1	
GRSM0134	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	03/26/82-03/26/82	0	1	
GRSM0136	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	11/12/81-11/12/81	0	1	
GRSM0137	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	12/02/81-04/22/82	0	3	
GRSM0138	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	11/12/81-03/24/82	0	3	
GRSM0139	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	03/22/82-03/22/82	0	1	
GRSM0142	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	12/02/81-12/02/81	0	1	
GRSM0143	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	03/22/82-03/22/82	0	1	
GRSM0145	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	03/24/82-03/24/82	0	1	
GRSM0148	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	03/24/82-03/24/82	0	1	
GRSM0150	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	03/26/82-03/26/82	0	1	
GRSM0151	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	11/28/78-11/28/78	0	2	
GRSM0155	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	11/28/78-11/28/78	0	2	
GRSM0160	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	04/20/82-04/20/82	0	1	
GRSM0163	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	03/23/82-04/20/82	0	2	
GRSM0167	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	04/21/82-04/21/82	0	1	
GRSM0171	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	07/23/81-07/23/81	0	1	
GRSM0173	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	03/25/82-03/25/82	0	1	
GRSM0175	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	12/02/81-03/25/82	0	2	
GRSM0184	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	10/11/73-09/08/82	8	33	
GRSM0185	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	05/26/76-11/07/94	18	97	
GRSM0189	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	11/28/78-11/28/78	0	2	
GRSM0192	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	07/23/81-07/23/81	0	1	
GRSM0202	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	01/08/68-03/18/75	7	18	
GRSM0214	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/05/78-05/05/78	0	1	
GRSM0216	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/04/78-05/04/78	0	1	
GRSM0217	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/06/78-05/06/78	0	1	
GRSM0218	No	01092	ZINC, TOTAL (UG/L AS ZN)	07/23/81-08/13/81	0	2	
GRSM0219	No	01092	ZINC, TOTAL (UG/L AS ZN)	07/23/81-08/13/81	0	2	
GRSM0222	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	01/08/68-07/29/68	0	5	
GRSM0225	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	08/13/81-08/13/81	0	1	
GRSM0226	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	08/13/81-08/13/81	0	1	
GRSM0230	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	06/05/80-06/05/80	0	1	
GRSM0234	No	01092	ZINC, TOTAL (UG/L AS ZN)	07/23/81-08/13/81	0	2	
GRSM0236	No	01092	ZINC, TOTAL (UG/L AS ZN)	07/23/81-08/13/81	0	2	
GRSM0239	No	01092	ZINC, TOTAL (UG/L AS ZN)	07/23/81-08/13/81	0	2	
GRSM0250	No	01092	ZINC, TOTAL (UG/L AS ZN)	02/08/77-02/08/77	0	1	
GRSM0256	No	01092	ZINC, TOTAL (UG/L AS ZN)	02/04/74-12/05/94	20	103	
GRSM0262	No	01092	ZINC, TOTAL (UG/L AS ZN)	02/23/77-10/11/78	1	8	
GRSM0264	No	01092	ZINC, TOTAL (UG/L AS ZN)	10/20/82-12/14/92	10	76	
GRSM0003	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/16/93-08/16/93	0	1	
GRSM0020	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/16/93-08/16/93	0	1	
GRSM0027	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/17/80-08/04/82	2	2	
GRSM0035	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0053	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0055	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	11/05/81-11/29/84	3	4	
GRSM0069	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/16/93-08/16/93	0	2	
GRSM0097	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0184	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	03/05/74-09/01/76	2	4	
GRSM0185	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	11/17/81-11/29/84	3	4	
GRSM0230	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/05/80-06/05/80	0	1	
GRSM0256	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	02/23/82-08/15/85	3	4	
GRSM0009	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	08/09/77-08/09/77	0	1	
GRSM0230	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/05/80-06/05/80	0	1	
GRSM0035	Yes	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0053	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0097	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0230	Yes	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/05/80-06/05/80	0	1	
GRSM0005	No	01099	ANTIMONY,TISSUE,WET WEIGHT,MG/KG	09/23/87-11/25/88	1	3	
GRSM0035	Yes	01099	ANTIMONY,TISSUE,WET WEIGHT,MG/KG	09/23/87-11/25/88	1	3	
GRSM0256	No	01099	ANTIMONY,TISSUE,WET WEIGHT,MG/KG	10/25/73-10/25/73	0	1	
GRSM0009	No	01102	TIN, TOTAL (UG/L AS SN)	08/09/77-08/09/77	0	1	
GRSM0230	Yes	01102	TIN, TOTAL (UG/L AS SN)	06/05/80-06/05/80	0	1	
GRSM0035	Yes	01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	06/27/73-06/27/73	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0053	No	01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0097	No	01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0230	Yes	01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	06/05/80-06/05/80	0	1	
GRSM0009	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	09/23/75-11/17/94	19	40	
GRSM0014	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/05/87-08/05/87	0	1	
GRSM0017	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/05/87-08/05/87	0	1	
GRSM0025	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/05/87-08/05/87	0	1	
GRSM0028	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/05/87-08/05/87	0	1	
GRSM0050	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	11/20/84-11/20/84	0	1	
GRSM0052	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	11/20/84-11/20/84	0	1	
GRSM0054	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	02/15/77-10/24/78	1	8	
GRSM0055	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	02/15/77-08/20/86	9	12	
GRSM0057	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/17/77-02/26/79	1	9	
GRSM0064	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/05/87-08/05/87	0	1	
GRSM0071	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/25/85-07/11/85	0	4	
GRSM0080	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	11/20/84-11/20/84	0	1	
GRSM0081	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/25/85-07/08/85	0	4	
GRSM0086	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/20/85-07/03/85	0	4	
GRSM0094	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/26/82-03/26/82	0	1	
GRSM0095	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	07/03/85-07/03/85	0	1	
GRSM0099	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	04/22/85-07/16/85	0	2	
GRSM0100	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	07/08/85-07/08/85	0	1	
GRSM0106	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/25/85-07/16/85	0	4	
GRSM0108	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/26/82-03/26/82	0	1	
GRSM0110	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	11/12/81-03/26/82	0	3	
GRSM0111	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/81-07/29/82	0	4	
GRSM0112	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	11/12/81-08/01/82	0	160	
GRSM0115	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/11/82-08/11/82	0	1	
GRSM0134	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/26/82-03/26/82	0	1	
GRSM0136	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	11/12/81-11/12/81	0	1	
GRSM0137	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/02/81-04/22/82	0	3	
GRSM0138	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	11/12/81-03/24/82	0	3	
GRSM0139	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/22/82-03/22/82	0	1	
GRSM0142	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/02/81-12/02/81	0	1	
GRSM0143	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/22/82-03/22/82	0	1	
GRSM0145	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/24/82-03/24/82	0	1	
GRSM0148	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/24/82-03/24/82	0	1	
GRSM0150	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/26/82-03/26/82	0	1	
GRSM0152	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	07/10/85-07/10/85	0	1	
GRSM0160	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	04/20/82-04/20/82	0	1	
GRSM0163	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/23/82-04/20/82	0	2	
GRSM0167	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	04/21/82-04/21/82	0	1	
GRSM0173	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/25/82-03/25/82	0	1	
GRSM0175	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/02/81-03/25/82	0	2	
GRSM0177	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	11/20/84-11/20/84	0	1	
GRSM0184	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	02/01/68-07/06/70	2	7	
GRSM0185	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	02/24/83-11/07/94	11	90	
GRSM0190	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/27/85-07/10/85	0	4	
GRSM0191	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	11/20/84-11/20/84	0	1	
GRSM0194	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/25/85-07/08/85	0	4	
GRSM0195	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	07/16/85-07/16/85	0	1	
GRSM0202	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	04/24/74-01/14/75	0	5	
GRSM0206	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	07/08/85-07/08/85	0	1	
GRSM0208	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	11/29/84-11/29/84	0	1	
GRSM0213	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/28/85-07/16/85	0	4	
GRSM0230	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	06/05/80-06/05/80	0	1	
GRSM0237	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/28/85-07/10/85	0	4	
GRSM0249	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/28/69-08/28/69	0	1	
GRSM0250	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	02/08/77-02/08/77	0	1	
GRSM0255	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	07/07/85-07/07/85	0	1	
GRSM0256	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/29/83-12/05/94	11	46	
GRSM0259	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/24/85-07/07/85	0	4	
GRSM0262	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	02/23/77-10/11/78	1	8	
GRSM0264	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/20/82-12/14/92	10	70	
GRSM0031	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/15/73-09/06/73	0	3	
GRSM0041	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/18/82-10/18/82	0	1	
GRSM0061	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/19/82-10/19/82	0	1	
GRSM0072	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/20/84-06/07/85	0	28	
GRSM0077	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/18/82-10/18/82	0	1	
GRSM0094	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/26/82-03/26/82	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0108	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/26/82-03/26/82	0	1	
GRSM0110	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/26/82-03/26/82	0	1	
GRSM0111	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/29/82-07/29/82	0	1	
GRSM0112	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/26/82-08/01/82	0	64	
GRSM0115	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/11/82-08/11/82	0	1	
GRSM0134	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/26/82-03/26/82	0	1	
GRSM0137	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/24/82-04/22/82	0	2	
GRSM0138	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/24/82-03/24/82	0	1	
GRSM0139	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/22/82-03/22/82	0	1	
GRSM0143	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/22/82-03/22/82	0	1	
GRSM0145	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/24/82-03/24/82	0	1	
GRSM0148	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/24/82-03/24/82	0	1	
GRSM0150	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/26/82-03/26/82	0	1	
GRSM0160	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	04/20/82-04/20/82	0	1	
GRSM0163	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/23/82-04/20/82	0	2	
GRSM0167	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	04/21/82-04/21/82	0	1	
GRSM0173	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/25/82-03/25/82	0	1	
GRSM0175	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/25/82-03/25/82	0	1	
GRSM0182	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/17/85-11/22/94	9	24	
GRSM0184	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/21/69-05/11/93	23	38	
GRSM0229	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/19/84-06/08/85	0	50	
GRSM0249	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/21/70-08/29/72	2	2	
GRSM0003	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/16/93-08/16/93	0	1	
GRSM0020	Yes	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/16/93-08/16/93	0	1	
GRSM0027	Yes	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/17/80-08/04/82	2	2	
GRSM0035	Yes	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0053	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0069	Yes	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/16/93-08/16/93	0	2	
GRSM0097	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0230	Yes	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/05/80-06/05/80	0	1	
GRSM0256	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	02/23/82-08/15/85	3	2	
GRSM0182	Yes	01130	LITHIUM, DISSOLVED (UG/L AS LI)	09/30/68-11/22/94	26	25	S
GRSM0184	Yes	01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/01/67-05/11/93	25	46	S
GRSM0007	No	01132	LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/29/75	1	2	
GRSM0009	No	01132	LITHIUM, TOTAL (UG/L AS LI)	08/09/77-12/21/89	12	3	
GRSM0011	No	01132	LITHIUM, TOTAL (UG/L AS LI)	06/25/73-12/10/74	1	4	
GRSM0013	Yes	01132	LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/31/75	1	6	
GRSM0016	Yes	01132	LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/29/75	1	2	
GRSM0022	No	01132	LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/29/75	1	2	
GRSM0024	Yes	01132	LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/31/75	1	6	
GRSM0027	Yes	01132	LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/29/75	1	2	
GRSM0037	No	01132	LITHIUM, TOTAL (UG/L AS LI)	06/25/73-11/21/74	1	2	
GRSM0054	No	01132	LITHIUM, TOTAL (UG/L AS LI)	02/15/77-08/09/77	0	3	
GRSM0055	No	01132	LITHIUM, TOTAL (UG/L AS LI)	06/25/73-08/09/77	4	3	
GRSM0057	No	01132	LITHIUM, TOTAL (UG/L AS LI)	03/17/77-09/19/77	0	3	
GRSM0059	No	01132	LITHIUM, TOTAL (UG/L AS LI)	06/25/73-11/27/74	1	2	
GRSM0063	Yes	01132	LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/29/75	1	2	
GRSM0070	No	01132	LITHIUM, TOTAL (UG/L AS LI)	06/21/73-01/29/75	1	6	
GRSM0073	No	01132	LITHIUM, TOTAL (UG/L AS LI)	06/21/73-01/29/75	1	6	
GRSM0202	Yes	01132	LITHIUM, TOTAL (UG/L AS LI)	04/24/74-01/14/75	0	5	
GRSM0250	No	01132	LITHIUM, TOTAL (UG/L AS LI)	02/08/77-02/08/77	0	1	
GRSM0262	No	01132	LITHIUM, TOTAL (UG/L AS LI)	02/23/77-08/09/77	0	3	
GRSM0035	Yes	01133	LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0053	No	01133	LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0097	No	01133	LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0182	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/17/85-11/22/94	9	24	
GRSM0184	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/22/79-05/11/93	13	43	
GRSM0184	Yes	01146	SELENIUM, SUSPENDED (UG/L AS SE)	10/22/79-06/23/81	1	5	
GRSM0009	No	01147	SELENIUM, TOTAL (UG/L AS SE)	11/18/75-12/08/75	0	2	
GRSM0091	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	10/03/77-03/10/78	0	2	
GRSM0184	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	06/18/75-09/08/82	7	12	
GRSM0202	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	04/24/74-01/14/75	0	4	
GRSM0214	No	01147	SELENIUM, TOTAL (UG/L AS SE)	05/05/78-05/05/78	0	1	
GRSM0216	No	01147	SELENIUM, TOTAL (UG/L AS SE)	05/04/78-05/04/78	0	1	
GRSM0217	No	01147	SELENIUM, TOTAL (UG/L AS SE)	05/06/78-05/06/78	0	1	
GRSM0230	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	06/05/80-06/05/80	0	1	
GRSM0250	No	01147	SELENIUM, TOTAL (UG/L AS SE)	02/08/77-02/08/77	0	1	
GRSM0264	No	01147	SELENIUM, TOTAL (UG/L AS SE)	06/24/86-07/21/88	2	2	
GRSM0035	Yes	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0053	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/27/73-06/27/73	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0097	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0230	Yes	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/05/80-06/05/80	0	1	
GRSM0005	No	01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	09/23/87-11/16/93	6	5	
GRSM0020	Yes	01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	11/17/93-11/17/93	0	1	
GRSM0035	Yes	01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	09/23/87-11/25/88	1	3	
GRSM0069	Yes	01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	12/01/92-11/18/93	0	2	
GRSM0054	No	01152	TITANIUM, TOTAL (UG/L AS TI)	02/15/77-08/09/77	0	3	
GRSM0057	No	01152	TITANIUM, TOTAL (UG/L AS TI)	03/17/77-09/19/77	0	3	
GRSM0202	Yes	01152	TITANIUM, TOTAL (UG/L AS TI)	04/24/74-01/14/75	0	5	
GRSM0230	Yes	01152	TITANIUM, TOTAL (UG/L AS TI)	06/05/80-06/05/80	0	1	
GRSM0250	No	01152	TITANIUM, TOTAL (UG/L AS TI)	02/08/77-02/08/77	0	1	
GRSM0262	No	01152	TITANIUM, TOTAL (UG/L AS TI)	02/23/77-08/09/77	0	3	
GRSM0230	Yes	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/05/80-06/05/80	0	1	
GRSM0230	Yes	01162	ZIRCONIUM, TOTAL (UG/L AS ZR)	06/05/80-06/05/80	0	1	
GRSM0230	Yes	01163	ZIRCONIUM IN BOTTOM DEPOSITS (MG/KG AS ZR DRY WT)	06/05/80-06/05/80	0	1	
GRSM0003	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/16/93-08/16/93	0	1	
GRSM0020	Yes	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/16/93-08/16/93	0	1	
GRSM0027	Yes	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/17/80-06/17/80	0	1	
GRSM0035	Yes	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0053	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0069	Yes	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/16/93-08/16/93	0	2	
GRSM0097	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0184	Yes	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	03/05/74-09/01/76	2	4	
GRSM0230	Yes	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/05/80-06/05/80	0	1	
GRSM0230	Yes	01203	YTTRIUM, TOTAL (UG/L AS Y)	06/05/80-06/05/80	0	1	
GRSM0249	No	01501	ALPHA, TOTAL	11/23/71-11/23/71	0	1	
GRSM0249	No	01502	ALPHA, TOTAL, COUNTING ERROR	11/23/71-11/23/71	0	1	
GRSM0249	No	01503	ALPHA, DISSOLVED	11/23/71-11/23/71	0	1	
GRSM0249	No	01504	ALPHA, DISSOLVED, COUNTING ERROR	11/23/71-11/23/71	0	1	
GRSM0249	No	01505	ALPHA, SUSPENDED	11/23/71-11/23/71	0	1	
GRSM0249	No	01506	ALPHA, SUSPENDED, COUNTING ERROR	11/23/71-11/23/71	0	1	
GRSM0182	Yes	01515	ALPHA, DISSOLVED GROSS, AS URANIUM-NATURAL, PC/L	10/12/67-10/25/68	1	3	
GRSM0184	Yes	01515	ALPHA, DISSOLVED GROSS, AS URANIUM-NATURAL, PC/L	10/03/67-09/08/82	14	5	
GRSM0182	Yes	01516	ALPHA, SUSPEND GROSS, AS URANIUM NATURAL, PC/L	10/12/67-10/25/68	1	3	
GRSM0184	Yes	01516	ALPHA, SUSPEND GROSS, AS URANIUM NATURAL, PC/L	10/03/67-10/15/80	13	4	
GRSM0249	No	03501	BETA, TOTAL	04/28/70-11/23/71	1	4	
GRSM0249	No	03502	BETA, TOTAL, COUNTING ERROR	11/23/71-11/23/71	0	1	
GRSM0249	No	03503	BETA, DISSOLVED	11/23/71-11/23/71	0	1	
GRSM0249	No	03504	BETA, DISSOLVED, COUNTING ERROR	11/23/71-11/23/71	0	1	
GRSM0249	No	03505	BETA, SUSPENDED	11/23/71-11/23/71	0	1	
GRSM0249	No	03506	BETA, SUSPENDED, COUNTING ERROR	11/23/71-11/23/71	0	1	
GRSM0182	Yes	03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	10/12/67-02/24/93	25	15	S
GRSM0184	Yes	03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	10/03/67-03/30/93	25	26	S
GRSM0182	Yes	03516	BETA, SUSPENDED GROSS, AS CS-137, PC/L	10/12/67-02/24/93	25	15	S
GRSM0184	Yes	03516	BETA, SUSPENDED GROSS, AS CS-137, PC/L	10/03/67-03/30/93	25	26	S
GRSM0182	Yes	04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	08/25/92-02/24/93	0	2	
GRSM0184	Yes	04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	08/17/92-03/30/93	0	2	
GRSM0182	Yes	04127	ALPHA, SUSPENDED, DRY WEIGHT,SED (AS TH-230) PCI/L	08/25/92-02/24/93	0	2	
GRSM0184	Yes	04127	ALPHA, SUSPENDED, DRY WEIGHT,SED (AS TH-230) PCI/L	08/17/92-03/30/93	0	2	
GRSM0182	Yes	09510	RADIUM 226, DISSOLVED, PLANCHET COUNT	06/24/68-06/24/68	0	1	
GRSM0184	Yes	09510	RADIUM 226, DISSOLVED, PLANCHET COUNT	10/03/72-10/03/72	0	1	
GRSM0182	Yes	09511	RADIUM 226, DISSOLVED, RADON METHOD	10/12/67-08/24/94	26	16	
GRSM0184	Yes	09511	RADIUM 226, DISSOLVED, RADON METHOD	10/03/67-03/30/93	25	25	S
GRSM0249	No	13501	STRONTIUM 90, TOTAL	11/23/71-11/23/71	0	1	
GRSM0249	No	15501	STRONTIUM 89, TOTAL	11/23/71-11/23/71	0	1	
GRSM0182	Yes	22703	URANIUM, NATURAL, DISSOLVED	10/12/67-08/24/94	26	14	
GRSM0184	Yes	22703	URANIUM, NATURAL, DISSOLVED	12/07/87-03/30/93	5	11	
GRSM0188	Yes	30344	PENTACHLORODIBENZO-P-DIOXIN,12378,FISH,WET WT,PG/G	10/17/84-10/17/84	0	3	
GRSM0188	Yes	30345	HEXACHLORODIBENZO-P-DIOXIN,123478,FISH,WET WT,PG/G	10/17/84-10/17/84	0	3	
GRSM0188	Yes	30346	HEXACHLORODIBENZO-P-DIOXIN,123678,FISH,WET WT,PG/G	10/17/84-10/17/84	0	3	
GRSM0188	Yes	30347	HEXACHLORODIBENZO-P-DIOXIN,123789,FISH,WET WT,PG/G	10/17/84-10/17/84	0	3	
GRSM0188	Yes	30348	HEPTACHLORODIBENZO-P-DIOXIN,1234678,TIS,WETWT,PG/G	10/17/84-10/17/84	0	3	
GRSM0188	Yes	30349	TETRACHLORODIBENZOFURAN, 2378- , FISH,WET WT.,PG/G	10/17/84-10/17/84	0	3	
GRSM0188	Yes	30350	PENTACHLORODIBENZOFURAN,12378- , FISH,WET WT.,PG/G	10/17/84-10/17/84	0	3	
GRSM0188	Yes	30351	PENTACHLORODIBENZOFURAN,23478- , FISH,WET WT.,PG/G	10/17/84-10/17/84	0	3	
GRSM0188	Yes	30352	HEXACHLORODIBENZOFURAN,123478- , FISH,WET WT.,PG/G	10/17/84-10/17/84	0	3	
GRSM0188	Yes	30353	HEXACHLORODIBENZOFURAN,123678- , FISH,WET WT.,PG/G	10/17/84-10/17/84	0	3	
GRSM0188	Yes	30354	HEXACHLORODIBENZOFURAN,123789- , FISH,WET WT.,PG/G	10/17/84-10/17/84	0	3	
GRSM0188	Yes	30355	HEXACHLORODIBENZOFURAN,234678- , FISH,WET WT.,PG/G	10/17/84-10/17/84	0	3	
GRSM0188	Yes	30356	HEPTACHLORODIBENZOFURAN,1234678- ,FISH,WET WT,PG/G	10/17/84-10/17/84	0	3	
GRSM0188	Yes	30357	HEPTACHLORODIBENZOFURAN,1234789- ,FISH,WET WT,PG/G	10/17/84-10/17/84	0	3	
GRSM0054	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	02/15/77-12/27/78	1	22	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0084	Yes	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	04/30/68-03/24/69	0	8	
GRSM0087	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	05/02/68-03/24/69	0	6	
GRSM0102	Yes	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	04/30/68-03/24/69	0	8	
GRSM0105	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	04/30/68-03/24/69	0	9	
GRSM0120	Yes	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	08/05/68-08/05/68	0	1	
GRSM0164	Yes	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	08/05/68-08/05/68	0	1	
GRSM0182	Yes	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	10/12/67-09/30/68	0	12	
GRSM0184	Yes	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/14/69-10/15/80	11	38	
GRSM0202	Yes	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	01/08/68-03/18/75	7	19	
GRSM0215	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	01/08/68-03/18/75	7	22	
GRSM0222	Yes	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	01/08/68-03/18/75	7	22	
GRSM0242	Yes	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	08/23/68-08/26/68	0	2	
GRSM0244	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	03/13/68-12/06/68	0	10	
GRSM0248	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	04/24/74-03/18/75	0	14	
GRSM0249	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/28/71-07/25/73	1	18	
GRSM0250	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	11/18/75-02/08/77	1	14	
GRSM0251	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	11/18/75-09/07/76	0	12	
GRSM0253	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	06/05/73-06/08/73	0	4	
GRSM0258	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	11/03/71-11/03/71	0	1	
GRSM0262	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	02/23/77-10/11/78	1	10	
GRSM0264	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	03/13/84-03/13/84	0	1	
GRSM0184	Yes	31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	11/01/67-12/12/68	1	6	
GRSM0009	No	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	09/23/75-10/29/75	0	2	
GRSM0055	No	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	04/15/85-04/15/85	0	1	
GRSM0185	Yes	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	05/07/74-10/15/80	6	13	
GRSM0256	No	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	07/02/68-06/03/70	1	5	
GRSM0021	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	05/03/66-01/31/67	0	9	
GRSM0057	No	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	05/04/66-01/30/67	0	8	
GRSM0059	No	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	10/15/69-10/15/69	0	1	
GRSM0070	No	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	05/14/69-01/29/75	5	4	
GRSM0073	No	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	05/14/69-01/29/75	5	4	
GRSM0087	No	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	01/23/67-05/27/67	0	9	
GRSM0258	No	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	01/07/65-10/26/65	0	8	
GRSM0007	No	31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	0	1	
GRSM0011	No	31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/68-12/10/74	6	13	
GRSM0013	Yes	31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/09/75-07/31/75	0	5	
GRSM0016	Yes	31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	0	1	
GRSM0022	No	31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	0	1	
GRSM0024	Yes	31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/09/75-07/31/75	0	5	
GRSM0027	Yes	31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	0	1	
GRSM0037	No	31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	06/20/68-11/21/74	6	12	
GRSM0055	No	31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	06/20/68-11/21/74	6	12	
GRSM0059	No	31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	06/20/68-11/27/74	6	8	
GRSM0063	Yes	31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	0	1	
GRSM0070	No	31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/68-01/29/75	6	15	
GRSM0073	No	31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/68-01/29/75	6	15	
GRSM0021	Yes	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	05/03/66-01/31/67	0	9	
GRSM0057	No	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	05/04/66-01/30/67	0	8	
GRSM0070	No	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	07/29/68-04/27/71	2	3	
GRSM0073	No	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	07/29/68-04/27/71	2	3	
GRSM0087	No	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/23/67-05/27/67	0	9	
GRSM0258	No	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/07/65-10/26/65	0	8	
GRSM0007	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-07/31/79	5	17	
GRSM0009	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	20	169	T,A
GRSM0011	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/10/74-07/13/77	2	2	
GRSM0013	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	8	26	
GRSM0016	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	8	19	
GRSM0022	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-07/31/79	5	17	
GRSM0024	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	8	24	
GRSM0027	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	8	20	
GRSM0036	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/18/76-05/17/78	2	4	
GRSM0037	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	7	78	
GRSM0048	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/18/76-07/22/76	0	3	
GRSM0054	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/15/77-12/27/78	1	22	
GRSM0055	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	17	145	A
GRSM0056	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/21/70-10/05/71	1	3	
GRSM0057	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/18/76-06/17/80	4	9	
GRSM0059	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/14/68-06/25/73	4	4	
GRSM0063	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-07/31/79	5	17	
GRSM0070	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/26/71-03/24/76	4	6	
GRSM0073	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/26/71-01/29/75	3	5	
GRSM0078	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/18/76-05/17/78	2	5	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0079	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/10/77-05/17/78	0	2	
GRSM0084	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/30/68-03/24/69	0	8	
GRSM0085	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-02/24/75	0	9	
GRSM0087	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/02/68-03/24/69	0	7	
GRSM0088	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-02/24/75	0	8	
GRSM0101	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-02/24/75	0	9	
GRSM0102	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/30/68-03/24/69	0	8	
GRSM0105	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/30/68-03/24/69	0	9	
GRSM0109	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-02/24/75	0	9	
GRSM0151	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/11/79-10/24/79	0	3	
GRSM0155	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/11/79-10/24/79	0	3	
GRSM0157	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/11/79-10/24/79	0	3	
GRSM0184	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/07/71-07/12/78	6	67	
GRSM0185	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	21	345	T,A
GRSM0189	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/11/79-10/24/79	0	3	
GRSM0202	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/08/68-03/18/75	7	18	
GRSM0215	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/08/68-03/18/75	7	21	
GRSM0222	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/08/68-03/18/75	7	21	
GRSM0242	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/23/68-08/26/68	0	2	
GRSM0244	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/13/68-12/06/68	0	10	
GRSM0245	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/20/82-06/07/83	0	9	
GRSM0248	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/24/74-03/18/75	0	14	
GRSM0249	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/23/71-09/29/71	0	2	
GRSM0250	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/18/75-02/08/77	1	18	
GRSM0251	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/18/75-09/07/76	0	13	
GRSM0253	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/05/73-06/08/73	0	4	
GRSM0256	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	24	241	A
GRSM0258	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/03/71-11/03/71	0	1	
GRSM0262	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/23/77-10/11/78	1	10	
GRSM0264	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/12/88-12/14/92	4	22	
GRSM0182	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	10/17/85-11/22/94	9	39	
GRSM0184	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	10/19/76-05/11/93	16	72	
GRSM0196	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	08/20/91-08/28/91	0	2	
GRSM0182	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/17/85-11/22/94	9	41	
GRSM0184	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/05/74-05/11/93	19	71	
GRSM0185	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/10/79-11/29/94	15	57	
GRSM0196	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/20/91-08/20/91	0	1	
GRSM0184	Yes	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	05/07/74-09/01/76	2	7	
GRSM0185	Yes	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	08/27/74-06/23/81	6	5	
GRSM0245	No	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/20/82-06/07/83	0	9	
GRSM0264	No	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	04/12/88-12/14/92	4	20	
GRSM0041	No	32023	ACIDS, STRONG	10/18/82-10/18/82	0	1	
GRSM0061	Yes	32023	ACIDS, STRONG	10/19/82-10/19/82	0	1	
GRSM0072	Yes	32023	ACIDS, STRONG	12/13/83-05/08/85	1	26	
GRSM0077	No	32023	ACIDS, STRONG	10/18/82-10/18/82	0	1	
GRSM0094	No	32023	ACIDS, STRONG	03/26/82-03/26/82	0	1	
GRSM0108	No	32023	ACIDS, STRONG	03/26/82-03/26/82	0	1	
GRSM0110	No	32023	ACIDS, STRONG	03/26/82-03/26/82	0	1	
GRSM0111	No	32023	ACIDS, STRONG	07/29/82-07/29/82	0	1	
GRSM0112	No	32023	ACIDS, STRONG	01/21/82-08/01/82	0	114	
GRSM0115	Yes	32023	ACIDS, STRONG	08/11/82-08/11/82	0	1	
GRSM0134	Yes	32023	ACIDS, STRONG	03/26/82-03/26/82	0	1	
GRSM0137	Yes	32023	ACIDS, STRONG	03/24/82-04/22/82	0	2	
GRSM0138	Yes	32023	ACIDS, STRONG	03/24/82-03/24/82	0	1	
GRSM0139	Yes	32023	ACIDS, STRONG	03/22/82-03/22/82	0	1	
GRSM0143	Yes	32023	ACIDS, STRONG	03/22/82-03/22/82	0	1	
GRSM0145	Yes	32023	ACIDS, STRONG	03/22/82-03/22/82	0	1	
GRSM0146	Yes	32023	ACIDS, STRONG	03/24/82-03/24/82	0	1	
GRSM0148	Yes	32023	ACIDS, STRONG	03/24/82-03/24/82	0	1	
GRSM0150	Yes	32023	ACIDS, STRONG	03/26/82-03/26/82	0	1	
GRSM0160	Yes	32023	ACIDS, STRONG	04/20/82-04/20/82	0	1	
GRSM0163	Yes	32023	ACIDS, STRONG	03/23/82-04/20/82	0	2	
GRSM0167	Yes	32023	ACIDS, STRONG	04/21/82-04/21/82	0	1	
GRSM0168	Yes	32023	ACIDS, STRONG	04/21/82-04/21/82	0	1	
GRSM0173	Yes	32023	ACIDS, STRONG	03/25/82-03/25/82	0	1	
GRSM0175	Yes	32023	ACIDS, STRONG	03/25/82-03/25/82	0	1	
GRSM0229	Yes	32023	ACIDS, STRONG	12/13/83-05/15/85	1	51	
GRSM0041	No	32024	ACIDS, WEAK	10/18/82-10/18/82	0	1	
GRSM0061	Yes	32024	ACIDS, WEAK	10/19/82-10/19/82	0	1	
GRSM0072	Yes	32024	ACIDS, WEAK	12/13/83-05/08/85	1	26	
GRSM0077	No	32024	ACIDS, WEAK	10/18/82-10/18/82	0	1	
GRSM0094	No	32024	ACIDS, WEAK	03/26/82-03/26/82	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0108	No	32024	ACIDS, WEAK	03/26/82-03/26/82	0	1	
GRSM0110	No	32024	ACIDS, WEAK	03/26/82-03/26/82	0	1	
GRSM0111	No	32024	ACIDS, WEAK	07/29/82-07/29/82	0	1	
GRSM0112	No	32024	ACIDS, WEAK	01/21/82-08/01/82	0	114	
GRSM0115	Yes	32024	ACIDS, WEAK	08/11/82-08/11/82	0	1	
GRSM0134	Yes	32024	ACIDS, WEAK	03/26/82-03/26/82	0	1	
GRSM0137	Yes	32024	ACIDS, WEAK	03/24/82-04/22/82	0	2	
GRSM0138	Yes	32024	ACIDS, WEAK	03/24/82-03/24/82	0	1	
GRSM0139	Yes	32024	ACIDS, WEAK	03/22/82-03/22/82	0	1	
GRSM0143	Yes	32024	ACIDS, WEAK	03/22/82-03/22/82	0	1	
GRSM0145	Yes	32024	ACIDS, WEAK	03/22/82-03/22/82	0	1	
GRSM0146	Yes	32024	ACIDS, WEAK	03/24/82-03/24/82	0	1	
GRSM0148	Yes	32024	ACIDS, WEAK	03/24/82-03/24/82	0	1	
GRSM0150	Yes	32024	ACIDS, WEAK	03/26/82-03/26/82	0	1	
GRSM0160	Yes	32024	ACIDS, WEAK	04/20/82-04/20/82	0	1	
GRSM0163	Yes	32024	ACIDS, WEAK	03/23/82-04/20/82	0	2	
GRSM0167	Yes	32024	ACIDS, WEAK	04/21/82-04/21/82	0	1	
GRSM0168	Yes	32024	ACIDS, WEAK	04/21/82-04/21/82	0	1	
GRSM0173	Yes	32024	ACIDS, WEAK	03/25/82-03/25/82	0	1	
GRSM0175	Yes	32024	ACIDS, WEAK	03/25/82-03/25/82	0	1	
GRSM0229	Yes	32024	ACIDS, WEAK	12/13/83-05/15/85	1	51	
GRSM0230	Yes	32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	32103	1,2-DICHLOROETHANE,WHOLE WATER,UG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	32104	BROMOFORM,WHOLE WATER,UG/L	06/05/80-06/05/80	0	1	
GRSM0192	Yes	32106	CHLOROFORM,WHOLE WATER,UG/L	05/06/81-05/06/81	0	1	
GRSM0230	Yes	32106	CHLOROFORM,WHOLE WATER,UG/L	06/05/80-06/05/80	0	1	
GRSM0013	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/12/81-08/29/94	13	4	
GRSM0016	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/12/81-08/29/94	13	4	
GRSM0024	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/12/81-08/29/94	13	4	
GRSM0027	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/12/81-08/29/94	13	4	
GRSM0032	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/88-08/10/94	6	2	
GRSM0038	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/88-08/10/94	6	2	
GRSM0042	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/88-08/10/94	6	2	
GRSM0045	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/88-08/10/94	6	2	
GRSM0063	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/05/87-08/29/94	7	2	
GRSM0066	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/88-08/10/94	6	2	
GRSM0103	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	05/23/91-09/30/91	0	3	
GRSM0197	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/01/90-07/28/92	1	2	
GRSM0203	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/01/90-07/28/92	1	2	
GRSM0210	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/01/90-07/28/92	1	2	
GRSM0007	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	07/02/79-07/02/79	0	1	
GRSM0013	Yes	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	04/05/77-06/17/80	3	4	
GRSM0016	Yes	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	04/05/77-06/17/80	3	3	
GRSM0022	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	04/05/77-07/02/79	2	2	
GRSM0024	Yes	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	07/06/78-06/17/80	1	2	
GRSM0027	Yes	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	06/17/80-06/17/80	0	1	
GRSM0063	Yes	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	04/04/77-07/02/79	2	4	
GRSM0003	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/22/93-10/19/94	1	14	
GRSM0007	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-07/02/79	4	3	
GRSM0011	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/25/73-12/10/74	1	2	
GRSM0013	Yes	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/09/75-06/17/80	4	6	
GRSM0016	Yes	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/29/75-06/17/80	4	4	
GRSM0020	Yes	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/22/93-10/19/94	1	14	
GRSM0022	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/29/75-07/02/79	3	3	
GRSM0024	Yes	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/09/75-06/17/80	4	4	
GRSM0027	Yes	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/29/75-06/17/80	4	2	
GRSM0037	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/25/73-11/21/74	1	2	
GRSM0055	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/25/73-11/21/74	1	2	
GRSM0059	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/25/73-11/27/74	1	2	
GRSM0063	Yes	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/29/75-07/02/79	3	5	
GRSM0069	Yes	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/21/93-10/20/94	1	18	
GRSM0070	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/21/73-01/29/75	1	4	
GRSM0073	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/21/73-01/29/75	1	4	
GRSM0003	No	32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	04/22/93-10/19/94	1	14	
GRSM0020	Yes	32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	04/22/93-10/19/94	1	14	
GRSM0069	Yes	32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	04/21/93-10/20/94	1	18	
GRSM0013	Yes	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/12/81-08/29/94	13	4	
GRSM0016	Yes	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/12/81-08/29/94	13	4	
GRSM0024	Yes	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/12/81-08/29/94	13	4	
GRSM0027	Yes	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/12/81-08/29/94	13	4	
GRSM0032	No	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	07/27/88-08/10/94	6	2	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0038	No	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	07/27/88-08/10/94	6	2	
GRSM0042	No	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	07/27/88-08/10/94	6	2	
GRSM0045	No	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	07/27/88-08/10/94	6	2	
GRSM0063	Yes	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/05/87-08/29/94	7	2	
GRSM0066	No	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	07/27/88-08/10/94	6	2	
GRSM0197	No	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/01/90-07/28/92	1	2	
GRSM0203	No	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/01/90-07/28/92	1	2	
GRSM0210	No	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/01/90-07/28/92	1	2	
GRSM0003	No	32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	04/22/93-10/19/94	1	14	
GRSM0020	Yes	32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	04/22/93-10/19/94	1	14	
GRSM0069	Yes	32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	04/21/93-10/20/94	1	18	
GRSM0004	No	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	06/03/73-10/26/73	0	3	
GRSM0013	Yes	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/12/81-08/29/94	13	4	
GRSM0016	Yes	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/12/81-08/29/94	13	4	
GRSM0019	Yes	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	06/02/73-10/26/73	0	3	
GRSM0023	Yes	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	06/02/73-10/26/73	0	3	
GRSM0024	Yes	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/12/81-08/29/94	13	4	
GRSM0027	Yes	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/12/81-08/29/94	13	4	
GRSM0030	Yes	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	06/02/73-10/26/73	0	3	
GRSM0032	No	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	07/27/88-08/10/94	6	2	
GRSM0038	No	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	07/27/88-08/10/94	6	2	
GRSM0042	No	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	07/27/88-08/10/94	6	2	
GRSM0045	No	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	07/27/88-08/10/94	6	2	
GRSM0060	Yes	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	06/02/73-10/26/73	0	3	
GRSM0063	Yes	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/05/87-08/29/94	7	2	
GRSM0066	No	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	07/27/88-08/10/94	6	2	
GRSM0126	Yes	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	06/27/73-11/13/73	0	3	
GRSM0197	No	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/01/90-07/28/92	1	2	
GRSM0203	No	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/01/90-07/28/92	1	2	
GRSM0210	No	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/01/90-07/28/92	1	2	
GRSM0247	No	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	03/24/73-09/20/73	0	3	
GRSM0257	No	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	03/24/73-09/20/73	0	3	
GRSM0003	No	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/22/93-10/19/94	1	14	
GRSM0007	No	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-07/02/79	4	3	
GRSM0009	No	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/02/75-01/02/75	0	1	
GRSM0011	No	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/29/68-12/10/74	6	13	
GRSM0013	Yes	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-06/17/80	5	10	
GRSM0016	Yes	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-06/17/80	5	5	
GRSM0020	Yes	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/22/93-10/19/94	1	14	
GRSM0022	No	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-07/02/79	4	4	
GRSM0024	Yes	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-06/17/80	5	8	
GRSM0027	Yes	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-06/17/80	5	3	
GRSM0037	No	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/20/68-11/21/74	6	12	
GRSM0055	No	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/20/68-11/21/74	6	11	
GRSM0059	No	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/20/68-11/27/74	6	8	
GRSM0063	Yes	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-07/02/79	4	6	
GRSM0069	Yes	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/21/93-10/20/94	1	18	
GRSM0070	No	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/29/68-01/29/75	6	15	
GRSM0073	No	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/29/68-01/29/75	6	14	
GRSM0157	Yes	32228	CHLOROPHYLL A, PERIPHYTON, SPECTRO, MG/M2	11/02/78-11/27/78	0	2	
GRSM0185	Yes	32228	CHLOROPHYLL A, PERIPHYTON, SPECTRO, MG/M2	11/27/78-08/06/80	1	5	
GRSM0189	Yes	32228	CHLOROPHYLL A, PERIPHYTON, SPECTRO, MG/M2	11/27/78-11/27/78	0	2	
GRSM0256	No	32228	CHLOROPHYLL A, PERIPHYTON, SPECTRO, MG/M2	08/06/80-08/06/80	0	3	
GRSM0244	No	32240	TANNIN AND LIGNIN (MG/L)	10/10/67-12/06/68	1	15	
GRSM0007	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	5	7	
GRSM0009	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	11/18/75-12/08/75	0	2	
GRSM0013	Yes	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	5	7	
GRSM0016	Yes	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	5	7	
GRSM0022	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	5	7	
GRSM0024	Yes	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	5	5	
GRSM0027	Yes	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	5	7	
GRSM0037	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	02/28/78-02/28/78	0	1	
GRSM0063	Yes	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	5	6	
GRSM0214	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	05/05/78-05/05/78	0	1	
GRSM0216	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	05/04/78-05/04/78	0	1	
GRSM0217	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	05/06/78-05/06/78	0	1	
GRSM0230	Yes	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	06/05/80-06/05/80	0	1	
GRSM0244	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	12/13/67-12/13/67	0	1	
GRSM0249	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/21/70-08/29/72	2	2	
GRSM0253	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	06/05/73-06/08/73	0	4	
GRSM0256	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/18/68-05/17/73	4	2	
GRSM0231	Yes	32734	PHENOLICS,TISSUE,WET WEIGHT,MG/KG	06/09/80-06/09/80	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0230	Yes	34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34200	ACENAPHTHYLENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34203	ACENAPHTHYLENE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34204	ACENAPHTHYLENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34205	ACENAPHTHENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34208	ACENAPHTHENE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34209	ACENAPHTHENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34210	ACROLEIN TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34215	ACRYLONITRILE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34220	ANTHRACENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34223	ANTHRACENE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34224	ANTHRACENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34230	BENZO(B)FLUORANTHENE,WHOLE WATER,UG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34233	BENZO(B)FLUORANTHENE,SEDIMENTS,DRY WGT,UG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34234	BENZO(B)FLUORANTHENE,TISSUE,WET WGT,MG/KG	06/09/80-06/09/80	0	1	
GRSM0231	Yes	34241	BENZIDINE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34242	BENZO(K)FLUORANTHENE, TOTAL, WATER UG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34245	BENZO(K)FLUORANTHENE, DRY WT, SEDIMENT UG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34246	BENZO(K)FLUORANTHENE, WET WT, TISSUE MG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34247	BENZO-A-PYRENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34250	BENZO-A-PYRENE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34251	BENZO-A-PYRENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0005	No	34252	BERYLLIUM WET WGTTISMG/KG	09/23/87-11/25/88	1	3	
GRSM0035	Yes	34252	BERYLLIUM WET WGTTISMG/KG	09/23/87-11/25/88	1	3	
GRSM0231	Yes	34252	BERYLLIUM WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0003	No	34257	B-BHC-BETA DRY WGTBOTUG/KG	08/16/93-08/16/93	0	1	
GRSM0020	Yes	34257	B-BHC-BETA DRY WGTBOTUG/KG	08/16/93-08/16/93	0	1	
GRSM0069	Yes	34257	B-BHC-BETA DRY WGTBOTUG/KG	08/16/93-08/16/93	0	2	
GRSM0230	Yes	34257	B-BHC-BETA DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0005	No	34258	B-BHC-BETA WET WGTTISMG/KG	09/23/87-11/16/93	6	4	
GRSM0020	Yes	34258	B-BHC-BETA WET WGTTISMG/KG	11/17/93-11/17/93	0	1	
GRSM0035	Yes	34258	B-BHC-BETA WET WGTTISMG/KG	09/23/87-11/25/88	1	2	
GRSM0069	Yes	34258	B-BHC-BETA WET WGTTISMG/KG	12/01/92-11/18/93	0	2	
GRSM0231	Yes	34258	B-BHC-BETA WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0003	No	34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	08/16/93-08/16/93	0	1	
GRSM0020	Yes	34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	08/16/93-08/16/93	0	1	
GRSM0069	Yes	34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	08/16/93-08/16/93	0	2	
GRSM0230	Yes	34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0005	No	34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	09/23/87-11/16/93	6	4	
GRSM0020	Yes	34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	11/17/93-11/17/93	0	1	
GRSM0035	Yes	34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	09/23/87-11/25/88	1	2	
GRSM0069	Yes	34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	12/01/92-11/18/93	0	2	
GRSM0231	Yes	34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0231	Yes	34272	BIS (CHLOROMETHYL) ETHER WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34273	BIS (2-CHLOROETHYL) ETHER TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34276	BIS (2-CHLOROETHYL) ETHER DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34277	BIS (2-CHLOROETHYL) ETHER WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34278	BIS (2-CHLOROETHOXY) METHANE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34281	BIS (2-CHLOROETHOXY) METHANE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34282	BIS (2-CHLOROETHOXY) METHANE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34283	BIS (2-CHLOROISOPROPYL) ETHER TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34286	BIS (2-CHLOROISOPROPYL) ETHER DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34287	BIS (2-CHLOROISOPROPYL) ETHER WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34295	N-BUTYL BENZYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34296	N-BUTYL BENZYL PHTHALATE,TISSUE,WET WGT,MG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34301	CHLOROBENZENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34306	CHLORODIBROMOMETHANE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34311	CHLOROETHANE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34320	CHRYSENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34323	CHRYSENE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34324	CHRYSENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0231	Yes	34326	CYANIDE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34336	DIETHYL PHTHALATE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34339	DIETHYL PHTHALATE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34340	DIETHYL PHTHALATE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34341	DIMETHYL PHTHALATE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34344	DIMETHYL PHTHALATE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34345	DIMETHYL PHTHALATE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34346	1,2-DIPHENYLHYDRAZINE TOTWUG/L	06/05/80-06/05/80	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0230	Yes	34349	1,2-DIPHENYLHYDRAZINE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34350	1,2-DIPHENYLHYDRAZINE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34351	ENDOSULFAN SULFATE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0003	No	34354	ENDOSULFAN SULFATE DRY WGTBOTUG/KG	08/16/93-08/16/93	0	1	
GRSM0020	Yes	34354	ENDOSULFAN SULFATE DRY WGTBOTUG/KG	08/16/93-08/16/93	0	1	
GRSM0069	Yes	34354	ENDOSULFAN SULFATE DRY WGTBOTUG/KG	08/16/93-08/16/93	0	2	
GRSM0230	Yes	34354	ENDOSULFAN SULFATE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0005	No	34355	ENDOSULFAN SULFATE WET WGTTISMG/KG	09/23/87-11/16/93	6	4	
GRSM0020	Yes	34355	ENDOSULFAN SULFATE WET WGTTISMG/KG	11/17/93-11/17/93	0	1	
GRSM0035	Yes	34355	ENDOSULFAN SULFATE WET WGTTISMG/KG	09/23/87-11/25/88	1	2	
GRSM0069	Yes	34355	ENDOSULFAN SULFATE WET WGTTISMG/KG	12/01/92-11/18/93	0	2	
GRSM0231	Yes	34355	ENDOSULFAN SULFATE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34356	ENDOSULFAN, BETA TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0003	No	34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	08/16/93-08/16/93	0	1	
GRSM0020	Yes	34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	08/16/93-08/16/93	0	1	
GRSM0069	Yes	34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	08/16/93-08/16/93	0	2	
GRSM0230	Yes	34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0005	No	34360	ENDOSULFAN, BETA WET WGTTISMG/KG	09/23/87-11/16/93	6	4	
GRSM0020	Yes	34360	ENDOSULFAN, BETA WET WGTTISMG/KG	11/17/93-11/17/93	0	1	
GRSM0035	Yes	34360	ENDOSULFAN, BETA WET WGTTISMG/KG	09/23/87-11/25/88	1	2	
GRSM0069	Yes	34360	ENDOSULFAN, BETA WET WGTTISMG/KG	12/01/92-11/18/93	0	2	
GRSM0231	Yes	34360	ENDOSULFAN, BETA WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34361	ENDOSULFAN, ALPHA TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0003	No	34364	ENDOSULFAN, ALPHA DRY WGTBOTUG/KG	08/16/93-08/16/93	0	1	
GRSM0020	Yes	34364	ENDOSULFAN, ALPHA DRY WGTBOTUG/KG	08/16/93-08/16/93	0	1	
GRSM0069	Yes	34364	ENDOSULFAN, ALPHA DRY WGTBOTUG/KG	08/16/93-08/16/93	0	2	
GRSM0230	Yes	34364	ENDOSULFAN, ALPHA DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0005	No	34365	ENDOSULFAN, ALPHA WET WGTTISMG/KG	09/23/87-11/16/93	6	4	
GRSM0020	Yes	34365	ENDOSULFAN, ALPHA WET WGTTISMG/KG	11/17/93-11/17/93	0	1	
GRSM0035	Yes	34365	ENDOSULFAN, ALPHA WET WGTTISMG/KG	09/23/87-11/25/88	1	2	
GRSM0069	Yes	34365	ENDOSULFAN, ALPHA WET WGTTISMG/KG	12/01/92-11/18/93	0	2	
GRSM0231	Yes	34365	ENDOSULFAN, ALPHA WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34366	ENDRIN ALDEHYDE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0003	No	34369	ENDRIN ALDEHYDE DRY WGTBOTUG/KG	08/16/93-08/16/93	0	1	
GRSM0020	Yes	34369	ENDRIN ALDEHYDE DRY WGTBOTUG/KG	08/16/93-08/16/93	0	1	
GRSM0069	Yes	34369	ENDRIN ALDEHYDE DRY WGTBOTUG/KG	08/16/93-08/16/93	0	2	
GRSM0230	Yes	34369	ENDRIN ALDEHYDE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0005	No	34370	ENDRIN ALDEHYDE WET WGTTISMG/KG	09/23/87-11/25/88	1	2	
GRSM0035	Yes	34370	ENDRIN ALDEHYDE WET WGTTISMG/KG	09/23/87-11/25/88	1	2	
GRSM0231	Yes	34370	ENDRIN ALDEHYDE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34371	ETHYLBENZENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34376	FLUORANTHENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34379	FLUORANTHENE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34380	FLUORANTHENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34381	FLUORENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34384	FLUORENE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34385	FLUORENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34386	HEXACHLOROCYCLOPENTADIENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34389	HEXACHLOROCYCLOPENTADIENE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34390	HEXACHLOROCYCLOPENTADIENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0188	Yes	34395	HEXACHLOROBUTADIENE WET WGTTISMG/KG	10/17/84-10/17/84	0	1	
GRSM0231	Yes	34395	HEXACHLOROBUTADIENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34396	HEXACHLOROETHANE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34399	HEXACHLOROETHANE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34400	HEXACHLOROETHANE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34403	INDENO (1,2,3-CD) PYRENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34406	INDENO (1,2,3-CD) PYRENE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34407	INDENO (1,2,3-CD) PYRENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34411	ISOPHORONE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34412	ISOPHORONE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34413	METHYL BROMIDE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34418	METHYL CHLORIDE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34423	METHYLENE CHLORIDE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34428	N-NITROSODI-N-PROPYLAMINE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34431	N-NITROSODI-N-PROPYLAMINE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34432	N-NITROSODI-N-PROPYLAMINE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34433	N-NITROSODIPHENYLAMINE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34436	N-NITROSODIPHENYLAMINE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34437	N-NITROSODIPHENYLAMINE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0231	Yes	34442	N-NITROSODIMETHYLAMINE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34445	NAPHTHALENE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34446	NAPHTHALENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	

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

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Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0230	Yes	34447	NITROBENZENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34450	NITROBENZENE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34451	NITROBENZENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34452	PARACHLOROMETA CRESOL TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34455	PARACHLOROMETA CRESOL DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34456	PARACHLOROMETA CRESOL WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34461	PHENANTHRENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34464	PHENANTHRENE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34465	PHENANTHRENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0231	Yes	34468	PHENOL WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34469	PYRENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34472	PYRENE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34473	PYRENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0005	No	34474	SILVER WET WGTTISMG/KG	09/23/87-11/25/88	1	3	
GRSM0035	Yes	34474	SILVER WET WGTTISMG/KG	09/23/87-11/25/88	1	3	
GRSM0231	Yes	34474	SILVER WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34475	TETRACHLOROETHYLENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34488	TRICHLOROFLUOROMETHANE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34496	1,1-DICHLOROETHANE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34501	1,1-DICHLOROETHYLENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34506	1,1,1-TRICHLOROETHANE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34511	1,1,2-TRICHLOROETHANE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34524	BENZO(GHI)PERYLENE1,12-BENZOPERYLENDRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34525	BENZO(GHI)PERYLENE1,12-BENZOPERYLENWET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34529	BENZO(A)ANTHRACENE1,2-BENZANTHRACENDRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34530	BENZO(A)ANTHRACENE1,2-BENZANTHRACENWET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34536	1,2-DICHLOROBENZENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34539	1,2-DICHLOROBENZENE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34540	1,2-DICHLOROBENZENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34541	1,2-DICHLOROPROPANE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34551	1,2,4-TRICHLOROBENZENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34554	1,2,4-TRICHLOROBENZENE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0188	Yes	34555	1,2,4-TRICHLOROBENZENE WET WGTTISMG/KG	10/17/84-10/17/84	0	1	
GRSM0231	Yes	34555	1,2,4-TRICHLOROBENZENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34556	1,2,5,6-DIBENZANTHRACENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34559	1,2,5,6-DIBENZANTHRACENE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34560	1,2,5,6-DIBENZANTHRACENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34561	1,3-DICHLOROPROPENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34566	1,3-DICHLOROBENZENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34569	1,3-DICHLOROBENZENE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34570	1,3-DICHLOROBENZENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34571	1,4-DICHLOROBENZENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34574	1,4-DICHLOROBENZENE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34575	1,4-DICHLOROBENZENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34576	2-CHLOROETHYL VINYL ETHER TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34581	2-CHLORONAPHTHALENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34584	2-CHLORONAPHTHALENE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34585	2-CHLORONAPHTHALENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34586	2-CHLOROPHENOL TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34589	2-CHLOROPHENOL DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34590	2-CHLOROPHENOL WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34591	2-NITROPHENOL TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34594	2-NITROPHENOL DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34595	2-NITROPHENOL WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34596	DI-N-OCTYL PHTHALATE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34599	DI-N-OCTYL PHTHALATE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34600	DI-N-OCTYL PHTHALATE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34601	2,4-DICHLOROPHENOL TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34604	2,4-DICHLOROPHENOL DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34605	2,4-DICHLOROPHENOL WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34606	2,4-DIMETHYLPHENOL TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34609	2,4-DIMETHYLPHENOL DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34610	2,4-DIMETHYLPHENOL WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34611	2,4-DINITROTOLUENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34614	2,4-DINITROTOLUENE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34615	2,4-DINITROTOLUENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34616	2,4-DINITROPHENOL TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34619	2,4-DINITROPHENOL DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	

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

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Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0231	Yes	34620	2,4-DINITROPHENOL WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34621	2,4,6-TRICHLOROPHENOL TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34624	2,4,6-TRICHLOROPHENOL DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34625	2,4,6-TRICHLOROPHENOL WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34626	2,6-DINITROTOLUENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34629	2,6-DINITROTOLUENE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34630	2,6-DINITROTOLUENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34631	3,3'-DICHLOROBENZIDINE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34634	3,3'-DICHLOROBENZIDINE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34635	3,3'-DICHLOROBENZIDINE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34636	4-BROMOPHENYL PHENYL ETHER TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34639	4-BROMOPHENYL PHENYL ETHER DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34640	4-BROMOPHENYL PHENYL ETHER WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34641	4-CHLOROPHENYL PHENYL ETHER TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34644	4-CHLOROPHENYL PHENYL ETHER DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34645	4-CHLOROPHENYL PHENYL ETHER WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34646	4-NITROPHENOL TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34649	4-NITROPHENOL DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34650	4-NITROPHENOL WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34657	DNOC (4,6-DINITRO-ORTHO-CRESOL) TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34660	DNOC (4,6-DINITRO-ORTHO-CRESOL) DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1	
GRSM0231	Yes	34661	DNOC (4,6-DINITRO-ORTHO-CRESOL) WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0005	No	34664	PCB - 1221 WET WGTTISMG/KG	09/23/87-11/16/93	6	4	
GRSM0020	Yes	34664	PCB - 1221 WET WGTTISMG/KG	11/17/93-11/17/93	0	1	
GRSM0035	Yes	34664	PCB - 1221 WET WGTTISMG/KG	09/23/87-11/25/88	1	2	
GRSM0069	Yes	34664	PCB - 1221 WET WGTTISMG/KG	12/01/92-11/18/93	0	2	
GRSM0083	No	34664	PCB - 1221 WET WGTTISMG/KG	02/25/87-02/25/87	0	5	
GRSM0096	No	34664	PCB - 1221 WET WGTTISMG/KG	02/11/87-02/11/87	0	1	
GRSM0231	Yes	34664	PCB - 1221 WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0005	No	34667	PCB - 1232 WET WGTTISMG/KG	09/23/87-11/16/93	6	4	
GRSM0020	Yes	34667	PCB - 1232 WET WGTTISMG/KG	11/17/93-11/17/93	0	1	
GRSM0035	Yes	34667	PCB - 1232 WET WGTTISMG/KG	09/23/87-11/25/88	1	2	
GRSM0069	Yes	34667	PCB - 1232 WET WGTTISMG/KG	12/01/92-11/18/93	0	2	
GRSM0083	No	34667	PCB - 1232 WET WGTTISMG/KG	02/25/87-02/25/87	0	5	
GRSM0096	No	34667	PCB - 1232 WET WGTTISMG/KG	02/11/87-02/11/87	0	1	
GRSM0231	Yes	34667	PCB - 1232 WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34668	DICHLORODIFUOROMETHANE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0005	No	34669	PCB - 1248 WET WGTTISMG/KG	09/23/87-11/16/93	6	4	
GRSM0020	Yes	34669	PCB - 1248 WET WGTTISMG/KG	11/17/93-11/17/93	0	1	
GRSM0035	Yes	34669	PCB - 1248 WET WGTTISMG/KG	09/23/87-11/25/88	1	2	
GRSM0069	Yes	34669	PCB - 1248 WET WGTTISMG/KG	12/01/92-11/18/93	0	2	
GRSM0083	No	34669	PCB - 1248 WET WGTTISMG/KG	02/25/87-02/25/87	0	5	
GRSM0096	No	34669	PCB - 1248 WET WGTTISMG/KG	02/11/87-02/11/87	0	1	
GRSM0231	Yes	34669	PCB - 1248 WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0005	No	34670	PCB - 1260 WET WGTTISMG/KG	09/23/87-11/16/93	6	4	
GRSM0020	Yes	34670	PCB - 1260 WET WGTTISMG/KG	11/17/93-11/17/93	0	1	
GRSM0035	Yes	34670	PCB - 1260 WET WGTTISMG/KG	09/23/87-11/25/88	1	2	
GRSM0069	Yes	34670	PCB - 1260 WET WGTTISMG/KG	12/01/92-11/18/93	0	2	
GRSM0083	No	34670	PCB - 1260 WET WGTTISMG/KG	02/25/87-02/25/87	0	5	
GRSM0096	No	34670	PCB - 1260 WET WGTTISMG/KG	02/11/87-02/11/87	0	1	
GRSM0231	Yes	34670	PCB - 1260 WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34671	PCB - 1016 TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0005	No	34674	PCB - 1016 WET WGTTISMG/KG	09/23/87-11/16/93	6	4	
GRSM0020	Yes	34674	PCB - 1016 WET WGTTISMG/KG	11/17/93-11/17/93	0	1	
GRSM0035	Yes	34674	PCB - 1016 WET WGTTISMG/KG	09/23/87-11/25/88	1	2	
GRSM0069	Yes	34674	PCB - 1016 WET WGTTISMG/KG	12/01/92-11/18/93	0	2	
GRSM0083	No	34674	PCB - 1016 WET WGTTISMG/KG	02/25/87-02/25/87	0	5	
GRSM0096	No	34674	PCB - 1016 WET WGTTISMG/KG	02/11/87-02/11/87	0	1	
GRSM0231	Yes	34674	PCB - 1016 WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0005	No	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	09/23/87-11/16/93	6	4	
GRSM0020	Yes	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	11/17/93-11/17/93	0	1	
GRSM0035	Yes	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	09/23/87-11/25/88	1	2	
GRSM0055	No	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	02/22/82-02/22/82	0	2	
GRSM0069	Yes	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	12/01/92-11/18/93	0	2	
GRSM0231	Yes	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	06/09/80-06/09/80	0	1	
GRSM0256	No	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	02/23/82-02/23/82	0	1	
GRSM0231	Yes	34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	06/09/80-06/09/80	0	1	
GRSM0231	Yes	34683	DI-N-BUTYL PHTHALATE,TISSUE,WET WGTWET WGT	06/09/80-06/09/80	0	1	
GRSM0055	No	34684	DIELDRIN TISMG/KG	02/22/82-02/22/82	0	2	
GRSM0256	No	34684	DIELDRIN TISMG/KG	02/23/82-02/23/82	0	1	
GRSM0005	No	34685	ENDRIN WET WGTTISMG/KG	09/23/87-11/16/93	6	4	
GRSM0020	Yes	34685	ENDRIN WET WGTTISMG/KG	11/17/93-11/17/93	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0035	Yes	34685	ENDRIN WET WGTTISMG/KG	09/23/87-11/25/88	1	2	
GRSM0055	No	34685	ENDRIN WET WGTTISMG/KG	07/15/81-02/22/82	0	3	
GRSM0069	Yes	34685	ENDRIN WET WGTTISMG/KG	12/01/92-11/18/93	0	2	
GRSM0188	Yes	34685	ENDRIN WET WGTTISMG/KG	10/17/84-10/17/84	0	1	
GRSM0231	Yes	34685	ENDRIN WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0256	No	34685	ENDRIN WET WGTTISMG/KG	02/23/82-02/23/82	0	1	
GRSM0005	No	34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	09/23/87-11/16/93	6	4	
GRSM0020	Yes	34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	11/17/93-11/17/93	0	1	
GRSM0035	Yes	34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	09/23/87-11/25/88	1	2	
GRSM0069	Yes	34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	12/01/92-11/18/93	0	2	
GRSM0188	Yes	34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	10/17/84-10/17/84	0	1	
GRSM0231	Yes	34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0005	No	34687	HEPTACHLOR WET WGTTISMG/KG	09/23/87-11/16/93	6	4	
GRSM0020	Yes	34687	HEPTACHLOR WET WGTTISMG/KG	11/17/93-11/17/93	0	1	
GRSM0035	Yes	34687	HEPTACHLOR WET WGTTISMG/KG	09/23/87-11/25/88	1	2	
GRSM0069	Yes	34687	HEPTACHLOR WET WGTTISMG/KG	12/01/92-11/18/93	0	2	
GRSM0188	Yes	34687	HEPTACHLOR WET WGTTISMG/KG	10/17/84-10/17/84	0	1	
GRSM0231	Yes	34687	HEPTACHLOR WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0055	No	34688	HEXACHLOROBENZENE WET WGTTISMG/KG	07/15/81-02/22/82	0	3	
GRSM0188	Yes	34688	HEXACHLOROBENZENE WET WGTTISMG/KG	10/17/84-10/17/84	0	1	
GRSM0231	Yes	34688	HEXACHLOROBENZENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0256	No	34688	HEXACHLOROBENZENE WET WGTTISMG/KG	02/23/82-02/23/82	0	1	
GRSM0005	No	34689	PCB - 1242 WET WGTTISMG/KG	09/23/87-11/16/93	6	4	
GRSM0020	Yes	34689	PCB - 1242 WET WGTTISMG/KG	11/17/93-11/17/93	0	1	
GRSM0035	Yes	34689	PCB - 1242 WET WGTTISMG/KG	09/23/87-11/25/88	1	2	
GRSM0069	Yes	34689	PCB - 1242 WET WGTTISMG/KG	12/01/92-11/18/93	0	2	
GRSM0083	No	34689	PCB - 1242 WET WGTTISMG/KG	02/25/87-02/25/87	0	5	
GRSM0096	No	34689	PCB - 1242 WET WGTTISMG/KG	02/11/87-02/11/87	0	1	
GRSM0231	Yes	34689	PCB - 1242 WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0005	No	34690	PCB - 1254 WET WGTTISMG/KG	09/23/87-11/16/93	6	4	
GRSM0020	Yes	34690	PCB - 1254 WET WGTTISMG/KG	11/17/93-11/17/93	0	1	
GRSM0035	Yes	34690	PCB - 1254 WET WGTTISMG/KG	09/23/87-11/25/88	1	2	
GRSM0069	Yes	34690	PCB - 1254 WET WGTTISMG/KG	12/01/92-11/18/93	0	2	
GRSM0083	No	34690	PCB - 1254 WET WGTTISMG/KG	02/25/87-02/25/87	0	5	
GRSM0096	No	34690	PCB - 1254 WET WGTTISMG/KG	02/11/87-02/11/87	0	1	
GRSM0231	Yes	34690	PCB - 1254 WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0005	No	34691	TOXAPHENE WET WGTTISMG/KG	09/23/87-11/16/93	6	4	
GRSM0020	Yes	34691	TOXAPHENE WET WGTTISMG/KG	11/17/93-11/17/93	0	1	
GRSM0035	Yes	34691	TOXAPHENE WET WGTTISMG/KG	09/23/87-11/25/88	1	2	
GRSM0069	Yes	34691	TOXAPHENE WET WGTTISMG/KG	12/01/92-11/18/93	0	2	
GRSM0231	Yes	34691	TOXAPHENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34695	PHENOL(C6H5OH)-SINGLE COMPOUND DRY WGTTUG/KG	06/05/80-06/05/80	0	1	
GRSM0230	Yes	34696	NAPHTHALENE TOTWUG/L	06/05/80-06/05/80	0	1	
GRSM0188	Yes	34754	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN TISWETWTPG/G	10/17/84-10/17/84	0	3	
GRSM0056	No	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	05/21/68-05/24/72	4	11	
GRSM0184	Yes	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	11/17/70-05/29/79	8	37	
GRSM0214	No	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	05/05/78-05/05/78	0	1	
GRSM0216	No	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	05/04/78-05/04/78	0	1	
GRSM0217	No	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	05/06/78-05/06/78	0	1	
GRSM0249	No	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	09/11/68-03/28/73	4	27	
GRSM0256	No	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	05/16/68-11/14/73	5	30	
GRSM0188	Yes	38824	ISOPROPALIN TISWETWGTMG/KG	10/17/84-10/17/84	0	1	
GRSM0230	Yes	39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE UG/L	06/05/80-06/05/80	0	1	
GRSM0184	Yes	39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	11/29/78-09/08/82	3	4	
GRSM0055	No	39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	07/15/81-02/22/82	0	3	
GRSM0231	Yes	39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	06/09/80-06/09/80	0	1	
GRSM0256	No	39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	02/23/82-02/23/82	0	1	
GRSM0185	Yes	39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	06/26/81-06/26/81	0	1	
GRSM0230	Yes	39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	06/05/80-06/05/80	0	1	
GRSM0256	No	39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	06/26/81-02/23/82	0	2	
GRSM0005	No	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	09/23/87-11/25/88	1	2	
GRSM0035	Yes	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	09/23/87-11/25/88	1	2	
GRSM0055	No	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	02/22/82-02/22/82	0	2	
GRSM0188	Yes	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/17/84-10/17/84	0	1	
GRSM0256	No	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	02/23/82-02/23/82	0	1	
GRSM0055	No	39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL	07/15/81-07/15/81	0	1	
GRSM0151	Yes	39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL	11/28/78-11/28/78	0	1	
GRSM0155	Yes	39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL	11/28/78-11/28/78	0	1	
GRSM0157	Yes	39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL	11/28/78-11/28/78	0	1	
GRSM0185	Yes	39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL	11/28/78-10/17/84	5	3	
GRSM0189	Yes	39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL	11/28/78-11/28/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0256	No	39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL	06/26/81-02/23/82	0	2	
GRSM0005	No	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	09/23/87-11/16/93	6	4	
GRSM0020	Yes	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	11/17/93-11/17/93	0	1	
GRSM0035	Yes	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	09/23/87-11/25/88	1	2	
GRSM0055	No	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	02/22/82-02/22/82	0	2	
GRSM0069	Yes	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	12/01/92-11/18/93	0	2	
GRSM0188	Yes	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/17/84-10/17/84	0	1	
GRSM0256	No	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	02/23/82-02/23/82	0	1	
GRSM0055	No	39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	07/15/81-07/15/81	0	1	
GRSM0151	Yes	39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	11/28/78-11/28/78	0	1	
GRSM0155	Yes	39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	11/28/78-11/28/78	0	1	
GRSM0157	Yes	39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	11/28/78-11/28/78	0	1	
GRSM0185	Yes	39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	11/28/78-10/17/84	5	3	
GRSM0189	Yes	39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	11/28/78-11/28/78	0	1	
GRSM0256	No	39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	06/26/81-02/23/82	0	2	
GRSM0005	No	39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	09/23/87-09/23/87	0	1	
GRSM0035	Yes	39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	09/23/87-09/23/87	0	1	
GRSM0005	No	39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	09/23/87-09/23/87	0	1	
GRSM0035	Yes	39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	09/23/87-09/23/87	0	1	
GRSM0055	No	39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	02/22/82-02/22/82	0	2	
GRSM0256	No	39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	02/23/82-02/23/82	0	1	
GRSM0055	No	39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	07/15/81-07/15/81	0	1	
GRSM0151	Yes	39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	11/28/78-11/28/78	0	1	
GRSM0155	Yes	39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	11/28/78-11/28/78	0	1	
GRSM0157	Yes	39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	11/28/78-11/28/78	0	1	
GRSM0185	Yes	39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	11/28/78-10/17/84	5	3	
GRSM0189	Yes	39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	11/28/78-11/28/78	0	1	
GRSM0256	No	39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	06/26/81-02/23/82	0	2	
GRSM0005	No	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	09/23/87-11/16/93	6	4	
GRSM0020	Yes	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	11/17/93-11/17/93	0	1	
GRSM0035	Yes	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	09/23/87-11/25/88	1	2	
GRSM0055	No	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	07/15/81-02/22/82	0	3	
GRSM0069	Yes	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	12/01/92-11/18/93	0	2	
GRSM0188	Yes	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	10/17/84-10/17/84	0	1	
GRSM0231	Yes	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	06/09/80-06/09/80	0	1	
GRSM0256	No	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	02/23/82-02/23/82	0	1	
GRSM0055	No	39075	BHC- GAMMA ISOMER, TISSUE WET WGT (UG/G)	07/15/81-02/22/82	0	3	
GRSM0256	No	39075	BHC- GAMMA ISOMER, TISSUE WET WGT (UG/G)	02/23/82-02/23/82	0	1	
GRSM0003	No	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	08/16/93-08/16/93	0	1	
GRSM0020	Yes	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	08/16/93-08/16/93	0	1	
GRSM0069	Yes	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	08/16/93-08/16/93	0	2	
GRSM0151	Yes	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	11/28/78-11/28/78	0	1	
GRSM0155	Yes	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	11/28/78-11/28/78	0	1	
GRSM0185	Yes	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	11/28/78-10/17/84	5	3	
GRSM0189	Yes	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	11/28/78-11/28/78	0	1	
GRSM0230	Yes	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	06/05/80-06/05/80	0	1	
GRSM0256	No	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	06/26/81-02/23/82	0	2	
GRSM0182	Yes	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/29/86-11/22/94	8	31	
GRSM0184	Yes	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	12/07/87-05/11/93	5	23	
GRSM0231	Yes	39099	BIS(2-ETHYLHEXYL)PHTHALATE,TISSUE,WET WGT,MG/KG	06/09/80-06/09/80	0	1	
GRSM0230	Yes	39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	39102	BIS(2-ETHYLHEXYL) PHTHALATE,SEDIMENT,DRY WGT,UG/KG	06/05/80-06/05/80	0	1	
GRSM0230	Yes	39110	DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	39112	DI-N-BUTYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	06/05/80-06/05/80	0	1	
GRSM0230	Yes	39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	0	1	
GRSM0230	Yes	39121	BENZIDINE IN BOTTOM DEPOS UG/KG DRY SOLIDS	06/05/80-06/05/80	0	1	
GRSM0230	Yes	39175	VINYL CHLORIDE-WHOLE WATER SAMPLE-UG/L	06/05/80-06/05/80	0	1	
GRSM0230	Yes	39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	06/05/80-06/05/80	0	1	
GRSM0184	Yes	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	10/19/76-09/08/82	5	6	
GRSM0184	Yes	39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	10/15/80-09/08/82	1	2	
GRSM0055	No	39290	DDT TOTAL IN TISSUE WET WGT BASIS (UG/G)	02/22/82-02/22/82	0	2	
GRSM0256	No	39290	DDT TOTAL IN TISSUE WET WGT BASIS (UG/G)	02/23/82-02/23/82	0	1	
GRSM0230	Yes	39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	0	1	
GRSM0003	No	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	0	1	
GRSM0020	Yes	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	0	1	
GRSM0055	No	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/15/81-07/15/81	0	1	
GRSM0069	Yes	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	0	2	
GRSM0151	Yes	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0155	Yes	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0185	Yes	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-10/17/84	5	3	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0189	Yes	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0230	Yes	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/05/80-06/05/80	0	1	
GRSM0256	No	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/26/81-02/23/82	0	2	
GRSM0005	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	09/23/87-11/16/93	6	4	
GRSM0020	Yes	39302	P P DDT IN TISSUE WET WGT (UG/G)	11/17/93-11/17/93	0	1	
GRSM0035	Yes	39302	P P DDT IN TISSUE WET WGT (UG/G)	09/23/87-11/25/88	1	2	
GRSM0055	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	02/22/82-02/22/82	0	2	
GRSM0069	Yes	39302	P P DDT IN TISSUE WET WGT (UG/G)	12/01/92-11/18/93	0	2	
GRSM0231	Yes	39302	P P DDT IN TISSUE WET WGT (UG/G)	06/09/80-06/09/80	0	1	
GRSM0256	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	02/23/82-02/23/82	0	1	
GRSM0055	No	39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/15/81-07/15/81	0	1	
GRSM0151	Yes	39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0155	Yes	39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0185	Yes	39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-10/17/84	5	3	
GRSM0189	Yes	39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0256	No	39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/26/81-02/23/82	0	2	
GRSM0230	Yes	39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	0	1	
GRSM0003	No	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	0	1	
GRSM0020	Yes	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	0	1	
GRSM0055	No	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/15/81-07/15/81	0	1	
GRSM0069	Yes	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	0	2	
GRSM0151	Yes	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0155	Yes	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0185	Yes	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-10/17/84	5	3	
GRSM0189	Yes	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0230	Yes	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/05/80-06/05/80	0	1	
GRSM0256	No	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/26/81-02/23/82	0	2	
GRSM0005	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	09/23/87-11/16/93	6	4	
GRSM0020	Yes	39312	P P DDD IN TISSUE WET WGT (UG/G)	11/17/93-11/17/93	0	1	
GRSM0035	Yes	39312	P P DDD IN TISSUE WET WGT (UG/G)	09/23/87-11/25/88	1	2	
GRSM0055	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	02/22/82-02/22/82	0	2	
GRSM0069	Yes	39312	P P DDD IN TISSUE WET WGT (UG/G)	12/01/92-11/18/93	0	2	
GRSM0231	Yes	39312	P P DDD IN TISSUE WET WGT (UG/G)	06/09/80-06/09/80	0	1	
GRSM0256	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	02/23/82-02/23/82	0	1	
GRSM0055	No	39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/15/81-07/15/81	0	1	
GRSM0151	Yes	39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0155	Yes	39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0185	Yes	39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-10/17/84	5	3	
GRSM0189	Yes	39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0256	No	39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/26/81-02/23/82	0	2	
GRSM0055	No	39318	O,P' DDT IN FISH OR ANIMAL BY WET WEIGHT UG/KG	02/22/82-02/22/82	0	2	
GRSM0256	No	39318	O,P' DDT IN FISH OR ANIMAL BY WET WEIGHT UG/KG	02/23/82-02/23/82	0	1	
GRSM0188	Yes	39319	MONOCHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1	
GRSM0230	Yes	39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	0	1	
GRSM0003	No	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	0	1	
GRSM0020	Yes	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	0	1	
GRSM0055	No	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/15/81-07/15/81	0	1	
GRSM0069	Yes	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	0	2	
GRSM0151	Yes	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0155	Yes	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0185	Yes	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-10/17/84	5	3	
GRSM0189	Yes	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0230	Yes	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/05/80-06/05/80	0	1	
GRSM0256	No	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/26/81-02/23/82	0	2	
GRSM0005	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	09/23/87-11/16/93	6	4	
GRSM0020	Yes	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	11/17/93-11/17/93	0	1	
GRSM0035	Yes	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	09/23/87-11/25/88	1	2	
GRSM0055	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	02/22/82-02/22/82	0	2	
GRSM0069	Yes	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	12/01/92-11/18/93	0	2	
GRSM0188	Yes	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	10/17/84-10/17/84	0	1	
GRSM0231	Yes	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	06/09/80-06/09/80	0	1	
GRSM0256	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	02/23/82-02/23/82	0	1	
GRSM0055	No	39325	O,P DDD IN TISSUE WET WGT (UG/G)	02/22/82-02/22/82	0	2	
GRSM0256	No	39325	O,P DDD IN TISSUE WET WGT (UG/G)	02/23/82-02/23/82	0	1	
GRSM0055	No	39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	07/15/81-07/15/81	0	1	
GRSM0151	Yes	39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0155	Yes	39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0185	Yes	39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/28/78-10/17/84	5	3	
GRSM0189	Yes	39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0256	No	39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	06/26/81-02/23/82	0	2	
GRSM0055	No	39329	O,P DDE IN TISSUE, WET WGT(UG/G)	02/22/82-02/22/82	0	2	
GRSM0256	No	39329	O,P DDE IN TISSUE, WET WGT(UG/G)	02/23/82-02/23/82	0	1	
GRSM0184	Yes	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/03/67-09/08/82	14	13	
GRSM0230	Yes	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	0	1	
GRSM0003	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	0	1	
GRSM0020	Yes	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	0	1	
GRSM0055	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/15/81-07/15/81	0	1	
GRSM0069	Yes	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	0	2	
GRSM0151	Yes	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0155	Yes	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0184	Yes	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/13/70-09/08/82	11	10	
GRSM0185	Yes	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-10/17/84	5	3	
GRSM0189	Yes	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0230	Yes	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/05/80-06/05/80	0	1	
GRSM0256	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/26/81-02/23/82	0	2	
GRSM0188	Yes	39335	DICHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1	
GRSM0230	Yes	39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	06/05/80-06/05/80	0	1	
GRSM0230	Yes	39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	06/05/80-06/05/80	0	1	
GRSM0188	Yes	39339	TRICHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1	
GRSM0184	Yes	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	04/15/69-09/08/82	13	11	
GRSM0230	Yes	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	06/05/80-06/05/80	0	1	
GRSM0003	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	08/16/93-08/16/93	0	1	
GRSM0020	Yes	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	08/16/93-08/16/93	0	1	
GRSM0069	Yes	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	08/16/93-08/16/93	0	2	
GRSM0184	Yes	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	10/13/70-09/08/82	11	10	
GRSM0230	Yes	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	06/05/80-06/05/80	0	1	
GRSM0188	Yes	39345	TETRACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1	
GRSM0188	Yes	39347	PENTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1	
GRSM0184	Yes	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	10/13/70-09/08/82	11	10	
GRSM0230	Yes	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	06/05/80-06/05/80	0	1	
GRSM0003	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	08/16/93-08/16/93	0	1	
GRSM0020	Yes	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	08/16/93-08/16/93	0	1	
GRSM0069	Yes	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	08/16/93-08/16/93	0	2	
GRSM0184	Yes	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	10/13/70-09/08/82	11	10	
GRSM0230	Yes	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	06/05/80-06/05/80	0	1	
GRSM0188	Yes	39354	HEPTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1	
GRSM0188	Yes	39355	OCTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1	
GRSM0184	Yes	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	10/03/67-09/08/82	14	13	
GRSM0184	Yes	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/13/70-09/08/82	11	10	
GRSM0184	Yes	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	10/03/67-09/08/82	14	13	
GRSM0184	Yes	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/13/70-09/08/82	11	10	
GRSM0184	Yes	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	10/03/67-09/08/82	14	13	
GRSM0055	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/15/81-07/15/81	0	1	
GRSM0184	Yes	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/13/70-09/08/82	11	10	
GRSM0185	Yes	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/26/81-10/17/84	3	2	
GRSM0256	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/26/81-02/23/82	0	2	
GRSM0184	Yes	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/03/67-09/08/82	14	13	
GRSM0230	Yes	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	0	1	
GRSM0003	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/16/93-08/16/93	0	1	
GRSM0020	Yes	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/16/93-08/16/93	0	1	
GRSM0055	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/15/81-07/15/81	0	1	
GRSM0069	Yes	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/16/93-08/16/93	0	2	
GRSM0151	Yes	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/28/78-11/28/78	0	1	
GRSM0155	Yes	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/28/78-11/28/78	0	1	
GRSM0184	Yes	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	10/13/70-09/08/82	11	10	
GRSM0185	Yes	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/28/78-10/17/84	5	3	
GRSM0189	Yes	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/28/78-11/28/78	0	1	
GRSM0230	Yes	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	06/05/80-06/05/80	0	1	
GRSM0256	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	06/26/81-02/23/82	0	2	
GRSM0184	Yes	39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	09/08/78-09/08/82	4	5	
GRSM0184	Yes	39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/15/80-09/08/82	1	2	
GRSM0184	Yes	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	10/03/67-09/08/82	14	13	
GRSM0230	Yes	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	0	1	
GRSM0003	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	0	1	
GRSM0020	Yes	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	0	1	
GRSM0069	Yes	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	0	2	
GRSM0151	Yes	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-11/28/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0155	Yes	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0184	Yes	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/13/70-09/08/82	11	10	
GRSM0185	Yes	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-10/17/84	5	3	
GRSM0189	Yes	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0230	Yes	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/05/80-06/05/80	0	1	
GRSM0256	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/26/81-02/23/82	0	2	
GRSM0184	Yes	39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	10/02/75-09/08/82	6	6	
GRSM0184	Yes	39399	ETHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	09/08/78-11/29/78	0	2	
GRSM0184	Yes	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/02/75-09/08/82	6	7	
GRSM0230	Yes	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	0	1	
GRSM0003	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/16/93-08/16/93	0	1	
GRSM0020	Yes	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/16/93-08/16/93	0	1	
GRSM0069	Yes	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/16/93-08/16/93	0	2	
GRSM0184	Yes	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	10/02/75-09/08/82	6	7	
GRSM0230	Yes	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	06/05/80-06/05/80	0	1	
GRSM0005	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	09/23/87-11/16/93	6	4	
GRSM0020	Yes	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	11/17/93-11/17/93	0	1	
GRSM0035	Yes	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	09/23/87-11/25/88	1	2	
GRSM0069	Yes	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	12/01/92-11/18/93	0	2	
GRSM0188	Yes	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	10/17/84-10/17/84	0	1	
GRSM0231	Yes	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	06/09/80-06/09/80	0	1	
GRSM0188	Yes	39408	NONACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1	
GRSM0188	Yes	39409	DECACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1	
GRSM0184	Yes	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	10/03/67-09/08/82	14	13	
GRSM0230	Yes	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	0	1	
GRSM0003	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	0	1	
GRSM0020	Yes	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	0	1	
GRSM0069	Yes	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	0	2	
GRSM0184	Yes	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	10/13/70-09/08/82	11	10	
GRSM0230	Yes	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	06/05/80-06/05/80	0	1	
GRSM0184	Yes	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/03/67-09/08/82	14	12	
GRSM0230	Yes	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	0	1	
GRSM0003	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	08/16/93-08/16/93	0	1	
GRSM0020	Yes	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	08/16/93-08/16/93	0	1	
GRSM0069	Yes	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	08/16/93-08/16/93	0	2	
GRSM0184	Yes	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	10/13/70-09/08/82	11	10	
GRSM0230	Yes	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	06/05/80-06/05/80	0	1	
GRSM0184	Yes	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	09/08/78-09/08/82	4	5	
GRSM0003	No	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	08/16/93-08/16/93	0	1	
GRSM0020	Yes	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	08/16/93-08/16/93	0	1	
GRSM0069	Yes	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	08/16/93-08/16/93	0	2	
GRSM0151	Yes	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/28/78-11/28/78	0	1	
GRSM0155	Yes	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/28/78-11/28/78	0	1	
GRSM0184	Yes	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	10/19/76-09/08/82	5	6	
GRSM0185	Yes	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/28/78-10/17/84	5	3	
GRSM0189	Yes	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/28/78-11/28/78	0	1	
GRSM0256	No	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	06/26/81-02/23/82	0	2	
GRSM0055	No	39482	METHOXYCHLOR IN FISH - UG/KG	07/15/81-02/22/82	0	3	
GRSM0256	No	39482	METHOXYCHLOR IN FISH - UG/KG	02/23/82-02/23/82	0	1	
GRSM0230	Yes	39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	06/05/80-06/05/80	0	1	
GRSM0003	No	39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	08/16/93-08/16/93	0	1	
GRSM0020	Yes	39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	08/16/93-08/16/93	0	1	
GRSM0069	Yes	39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	08/16/93-08/16/93	0	2	
GRSM0082	No	39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	10/06/86-10/06/86	0	1	
GRSM0104	No	39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	10/06/86-10/06/86	0	2	
GRSM0230	Yes	39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	06/05/80-06/05/80	0	1	
GRSM0230	Yes	39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	06/05/80-06/05/80	0	1	
GRSM0003	No	39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/16/93-08/16/93	0	1	
GRSM0020	Yes	39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/16/93-08/16/93	0	1	
GRSM0069	Yes	39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/16/93-08/16/93	0	2	
GRSM0082	No	39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/06/86-10/06/86	0	1	
GRSM0104	No	39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/06/86-10/06/86	0	2	
GRSM0230	Yes	39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	06/05/80-06/05/80	0	1	
GRSM0230	Yes	39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	06/05/80-06/05/80	0	1	
GRSM0003	No	39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/16/93-08/16/93	0	1	
GRSM0020	Yes	39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/16/93-08/16/93	0	1	
GRSM0069	Yes	39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/16/93-08/16/93	0	2	
GRSM0082	No	39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/06/86-10/06/86	0	1	
GRSM0104	No	39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/06/86-10/06/86	0	2	
GRSM0230	Yes	39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	06/05/80-06/05/80	0	1	

[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]
GRSM0230	Yes	39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	06/05/80-06/05/80	0	1	
GRSM0003	No	39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	0	1	
GRSM0020	Yes	39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	0	1	
GRSM0069	Yes	39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	0	2	
GRSM0082	No	39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/06/86-10/06/86	0	1	
GRSM0104	No	39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/06/86-10/06/86	0	2	
GRSM0230	Yes	39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	06/05/80-06/05/80	0	1	
GRSM0230	Yes	39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	06/05/80-06/05/80	0	1	
GRSM0249	No	39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	07/02/70-07/02/70	0	1	
GRSM0003	No	39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	0	1	
GRSM0020	Yes	39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	0	1	
GRSM0069	Yes	39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	0	2	
GRSM0082	No	39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/06/86-10/06/86	0	1	
GRSM0104	No	39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/06/86-10/06/86	0	2	
GRSM0230	Yes	39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	06/05/80-06/05/80	0	1	
GRSM0230	Yes	39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	06/05/80-06/05/80	0	1	
GRSM0003	No	39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	0	1	
GRSM0020	Yes	39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	0	1	
GRSM0069	Yes	39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	0	2	
GRSM0082	No	39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/06/86-10/06/86	0	1	
GRSM0104	No	39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/06/86-10/06/86	0	2	
GRSM0230	Yes	39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	06/05/80-06/05/80	0	1	
GRSM0003	No	39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	08/16/93-08/16/93	0	1	
GRSM0020	Yes	39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	08/16/93-08/16/93	0	1	
GRSM0069	Yes	39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	08/16/93-08/16/93	0	2	
GRSM0082	No	39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	10/06/86-10/06/86	0	1	
GRSM0104	No	39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	10/06/86-10/06/86	0	2	
GRSM0230	Yes	39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	06/05/80-06/05/80	0	1	
GRSM0005	No	39515	PCBS (MG/KG) FISH TISSUE MG/KG	09/23/87-11/25/88	1	2	
GRSM0035	Yes	39515	PCBS (MG/KG) FISH TISSUE MG/KG	09/23/87-11/25/88	1	2	
GRSM0055	No	39515	PCBS (MG/KG) FISH TISSUE MG/KG	07/15/81-02/22/82	0	3	
GRSM0083	No	39515	PCBS (MG/KG) FISH TISSUE MG/KG	02/25/87-02/25/87	0	5	
GRSM0096	No	39515	PCBS (MG/KG) FISH TISSUE MG/KG	02/11/87-02/11/87	0	1	
GRSM0256	No	39515	PCBS (MG/KG) FISH TISSUE MG/KG	02/23/82-02/23/82	0	1	
GRSM0184	Yes	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	10/11/73-09/08/82	8	8	
GRSM0082	No	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/06/86-10/06/86	0	1	
GRSM0104	No	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/06/86-10/06/86	0	2	
GRSM0151	Yes	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0155	Yes	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0184	Yes	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/11/73-09/08/82	8	8	
GRSM0185	Yes	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-10/17/84	5	3	
GRSM0189	Yes	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0256	No	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/26/81-02/23/82	0	2	
GRSM0184	Yes	39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	10/13/70-09/08/82	11	9	
GRSM0184	Yes	39531	MALATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/13/70-11/29/78	8	3	
GRSM0184	Yes	39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	10/13/70-09/08/82	11	9	
GRSM0184	Yes	39541	PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/13/70-11/29/78	8	3	
GRSM0184	Yes	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	10/13/70-09/08/82	11	9	
GRSM0184	Yes	39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/13/70-11/29/78	8	3	
GRSM0184	Yes	39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	10/13/70-09/08/82	11	9	
GRSM0184	Yes	39601	METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	10/13/70-11/29/78	8	3	
GRSM0230	Yes	39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	0	1	
GRSM0151	Yes	39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0155	Yes	39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0185	Yes	39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	11/28/78-10/17/84	5	3	
GRSM0189	Yes	39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0230	Yes	39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	06/05/80-06/05/80	0	1	
GRSM0256	No	39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	06/26/81-02/23/82	0	2	
GRSM0230	Yes	39702	HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE(UG/L)	06/05/80-06/05/80	0	1	
GRSM0230	Yes	39705	HEXACHLOROBUTADIENE BOT. DEPOS.(UG/KG DRY WGT)	06/05/80-06/05/80	0	1	
GRSM0184	Yes	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	06/13/68-09/08/82	14	10	
GRSM0184	Yes	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	06/13/68-09/08/82	14	10	
GRSM0184	Yes	39755	MIREX, TOTAL (UG/L)	09/08/78-09/08/82	4	5	
GRSM0184	Yes	39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	10/15/80-09/08/82	1	2	
GRSM0184	Yes	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	06/13/68-09/08/82	14	10	
GRSM0005	No	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	09/23/87-11/16/93	6	4	
GRSM0020	Yes	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	11/17/93-11/17/93	0	1	
GRSM0035	Yes	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	09/23/87-11/25/88	1	2	
GRSM0069	Yes	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	12/01/92-11/18/93	0	2	
GRSM0188	Yes	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	10/17/84-10/17/84	0	1	

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Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0231	Yes	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	06/09/80-06/09/80	0	1	
GRSM0184	Yes	39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	10/02/75-09/08/82	6	6	
GRSM0184	Yes	39787	TRITHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	09/08/78-11/29/78	0	2	
GRSM0184	Yes	39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	10/02/75-09/08/82	6	6	
GRSM0184	Yes	39791	METHYL TRITHION IN BOT DEPOS (UG/KG DRY SOLIDS)	09/08/78-11/29/78	0	2	
GRSM0151	Yes	39811	CHLORDANE,GAMMA,IN BOTTOM DEPOS(UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0155	Yes	39811	CHLORDANE,GAMMA,IN BOTTOM DEPOS(UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	39811	CHLORDANE,GAMMA,IN BOTTOM DEPOS(UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0185	Yes	39811	CHLORDANE,GAMMA,IN BOTTOM DEPOS(UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0189	Yes	39811	CHLORDANE,GAMMA,IN BOTTOM DEPOS(UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1	
GRSM0230	Yes	45513	TELLURIUM IN SEDIMENT (MG/KG AS TE DRY WT)	06/05/80-06/05/80	0	1	
GRSM0230	Yes	45514	YTTRIUM IN SEDIMENT (MG/KG AS YTTRIUM DRY WT)	06/05/80-06/05/80	0	1	
GRSM0005	No	45579	PERCENT LIPID EXTRACTABLE MATERIAL	09/23/87-11/16/93	6	4	
GRSM0020	Yes	45579	PERCENT LIPID EXTRACTABLE MATERIAL	11/17/93-11/17/93	0	1	
GRSM0035	Yes	45579	PERCENT LIPID EXTRACTABLE MATERIAL	09/23/87-11/25/88	1	2	
GRSM0069	Yes	45579	PERCENT LIPID EXTRACTABLE MATERIAL	12/01/92-11/18/93	0	2	
GRSM0083	No	45579	PERCENT LIPID EXTRACTABLE MATERIAL	02/25/87-02/25/87	0	5	
GRSM0096	No	45579	PERCENT LIPID EXTRACTABLE MATERIAL	02/11/87-02/11/87	0	1	
GRSM0188	Yes	46333	PENTACHLORONITROBENZENE (PCNB) IN TISSUE WET MG/KG	10/17/84-10/17/84	0	1	
GRSM0021	Yes	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	06/06/66-01/31/67	0	7	
GRSM0036	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	02/04/74-01/17/77	2	37	
GRSM0041	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	10/18/82-10/18/82	0	1	
GRSM0048	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	03/03/74-01/17/77	2	36	
GRSM0054	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	02/15/77-10/24/78	1	8	
GRSM0057	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	05/04/66-02/26/79	12	54	
GRSM0061	Yes	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	10/19/82-10/19/82	0	1	
GRSM0072	Yes	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	12/13/83-05/16/84	0	3	
GRSM0077	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	10/18/82-10/18/82	0	1	
GRSM0078	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	01/28/74-01/24/77	2	37	
GRSM0084	Yes	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	12/02/68-12/02/68	0	1	
GRSM0087	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	02/23/67-05/04/67	0	2	
GRSM0094	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	03/26/82-03/26/82	0	1	
GRSM0102	Yes	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	10/21/68-12/02/68	0	2	
GRSM0108	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	03/26/82-03/26/82	0	1	
GRSM0110	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	11/12/81-03/26/82	0	3	
GRSM0111	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	12/01/81-12/01/81	0	3	
GRSM0112	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	11/12/81-08/01/82	0	130	
GRSM0115	Yes	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	08/11/82-08/11/82	0	1	
GRSM0134	Yes	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	03/26/82-03/26/82	0	1	
GRSM0136	Yes	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	11/12/81-11/12/81	0	1	
GRSM0137	Yes	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	12/02/81-04/22/82	0	3	
GRSM0138	Yes	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	11/12/81-03/24/82	0	3	
GRSM0139	Yes	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	03/22/82-03/22/82	0	1	
GRSM0142	Yes	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	12/02/81-12/02/81	0	1	
GRSM0143	Yes	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	03/22/82-03/22/82	0	1	
GRSM0145	Yes	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	03/24/82-03/24/82	0	1	
GRSM0148	Yes	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	03/24/82-03/24/82	0	1	
GRSM0150	Yes	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	03/26/82-03/26/82	0	1	
GRSM0160	Yes	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	04/20/82-04/20/82	0	1	
GRSM0163	Yes	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	03/23/82-04/20/82	0	2	
GRSM0167	Yes	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	04/21/82-04/21/82	0	1	
GRSM0173	Yes	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	03/25/82-03/25/82	0	1	
GRSM0175	Yes	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	12/02/81-03/25/82	0	2	
GRSM0202	Yes	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	01/08/68-03/18/75	7	16	
GRSM0222	Yes	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	01/08/68-07/29/68	0	5	
GRSM0229	Yes	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	12/13/83-05/15/84	0	3	
GRSM0250	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	10/21/75-02/08/77	1	17	
GRSM0258	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	11/03/71-11/03/71	0	1	
GRSM0262	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	02/23/77-10/11/78	1	8	
GRSM0007	No	50086	SETTLEABLE MATTER (ML/L/HR)	07/25/78-07/25/78	0	1	
GRSM0184	Yes	60050	ALGAE, TOTAL (CELLS/ML)	04/12/74-03/21/79	4	9	
GRSM0050	Yes	70151	SURFACE AREA OF LAKE OR RESERVOIR SQ KM	11/20/84-11/20/84	0	1	
GRSM0052	No	70151	SURFACE AREA OF LAKE OR RESERVOIR SQ KM	11/20/84-11/20/84	0	1	
GRSM0080	No	70151	SURFACE AREA OF LAKE OR RESERVOIR SQ KM	11/20/84-11/20/84	0	1	
GRSM0177	No	70151	SURFACE AREA OF LAKE OR RESERVOIR SQ KM	11/20/84-11/20/84	0	1	
GRSM0191	No	70151	SURFACE AREA OF LAKE OR RESERVOIR SQ KM	11/20/84-11/20/84	0	1	
GRSM0208	No	70151	SURFACE AREA OF LAKE OR RESERVOIR SQ KM	11/29/84-11/29/84	0	1	
GRSM0006	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/25/79-09/26/79	0	12	
GRSM0007	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/74-07/29/75	1	2	
GRSM0008	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/25/79-09/26/79	0	12	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0010	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/19/56-05/09/72	15	72	
GRSM0011	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/28/71-12/10/74	3	6	
GRSM0013	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/74-07/31/75	1	8	
GRSM0016	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/74-07/29/75	1	2	
GRSM0022	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/74-07/29/75	1	2	
GRSM0024	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/74-07/31/75	1	6	
GRSM0027	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/74-07/29/75	1	2	
GRSM0031	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/23/73-09/06/73	0	4	
GRSM0036	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/04/74-01/17/77	2	37	
GRSM0037	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/28/71-11/21/74	3	5	
GRSM0048	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/03/74-12/13/76	2	35	
GRSM0054	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/15/77-10/24/78	1	8	
GRSM0055	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/25/73-11/21/74	1	2	
GRSM0056	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/21/68-05/24/72	4	10	
GRSM0057	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/28/74-06/17/80	6	55	
GRSM0059	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/25/73-11/27/74	1	2	
GRSM0063	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/74-07/29/75	1	3	
GRSM0069	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/25/79-09/26/79	0	12	
GRSM0070	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/21/73-01/29/75	1	6	
GRSM0073	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/21/73-01/29/75	1	6	
GRSM0074	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/06/56-04/13/62	5	8	
GRSM0076	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/25/68-09/25/68	0	1	
GRSM0078	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/28/74-01/24/77	2	37	
GRSM0091	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/23/73-08/08/74	0	2	
GRSM0094	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/82-03/26/82	0	1	
GRSM0107	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/24/68-09/24/68	0	1	
GRSM0108	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/82-03/26/82	0	1	
GRSM0110	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/12/81-03/26/82	0	3	
GRSM0112	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/12/81-06/21/82	0	96	
GRSM0120	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/24/68-09/24/68	0	1	
GRSM0134	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/82-03/26/82	0	1	
GRSM0136	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/12/81-11/12/81	0	1	
GRSM0137	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/02/81-04/22/82	0	3	
GRSM0138	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/12/81-03/24/82	0	3	
GRSM0139	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/22/82-03/22/82	0	1	
GRSM0142	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/02/81-12/02/81	0	1	
GRSM0143	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/22/82-03/22/82	0	1	
GRSM0144	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/25/68-09/25/68	0	1	
GRSM0145	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/22/82-03/22/82	0	1	
GRSM0146	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/24/82-03/24/82	0	1	
GRSM0148	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/24/82-03/24/82	0	1	
GRSM0150	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/82-03/26/82	0	1	
GRSM0160	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/20/82-04/20/82	0	1	
GRSM0161	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/25/68-09/25/68	0	1	
GRSM0163	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/23/82-04/20/82	0	2	
GRSM0164	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/25/68-09/25/68	0	1	
GRSM0167	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/82-04/21/82	0	1	
GRSM0168	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/82-04/21/82	0	1	
GRSM0173	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/25/82-03/25/82	0	1	
GRSM0175	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/02/81-03/25/82	0	2	
GRSM0178	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/24/68-09/24/68	0	1	
GRSM0182	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/10/63-11/22/94	31	57	S
GRSM0184	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/18/62-05/11/93	30	121	T,S
GRSM0193	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/11/83-08/31/83	0	6	
GRSM0202	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/24/74-03/18/75	0	13	
GRSM0214	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/05/78-05/05/78	0	1	
GRSM0215	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/24/74-03/18/75	0	14	
GRSM0216	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/04/78-05/04/78	0	1	
GRSM0217	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/06/78-05/06/78	0	1	
GRSM0221	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/25/68-09/25/68	0	1	
GRSM0222	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/24/74-03/18/75	0	14	
GRSM0223	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/06/67-08/01/68	0	4	
GRSM0227	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/25/68-09/25/68	0	1	
GRSM0240	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/24/68-09/24/68	0	1	
GRSM0248	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/24/74-03/18/75	0	14	
GRSM0249	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/17/57-03/28/73	15	74	
GRSM0250	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/21/75-02/08/77	1	17	
GRSM0251	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/21/75-09/07/76	0	13	
GRSM0258	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/12/83-09/06/83	0	2	
GRSM0262	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/23/77-10/11/78	1	8	
GRSM0031	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/23/73-09/06/73	0	4	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0056	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/21/68-05/24/72	4	11	
GRSM0076	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/25/68-09/25/68	0	1	
GRSM0091	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/23/73-08/08/74	0	2	
GRSM0107	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/24/68-09/24/68	0	1	
GRSM0120	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/24/68-09/24/68	0	1	
GRSM0144	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/25/68-09/25/68	0	1	
GRSM0161	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/25/68-09/25/68	0	1	
GRSM0164	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/25/68-09/25/68	0	1	
GRSM0178	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/24/68-09/24/68	0	1	
GRSM0182	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/05/66-12/10/85	19	15	
GRSM0184	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/01/67-02/11/86	18	69	
GRSM0186	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/23/76-04/23/76	0	1	
GRSM0214	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/05/78-05/05/78	0	1	
GRSM0216	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/04/78-05/04/78	0	1	
GRSM0217	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/06/78-05/06/78	0	1	
GRSM0221	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/25/68-09/25/68	0	1	
GRSM0227	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/25/68-09/25/68	0	1	
GRSM0240	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/24/68-09/24/68	0	1	
GRSM0249	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/27/68-03/28/73	4	15	
GRSM0010	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	11/06/70-05/09/72	1	10	
GRSM0056	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	05/21/68-05/24/72	4	8	
GRSM0076	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/25/68-09/25/68	0	1	
GRSM0107	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/24/68-09/24/68	0	1	
GRSM0120	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/24/68-09/24/68	0	1	
GRSM0144	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/25/68-09/25/68	0	1	
GRSM0161	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/25/68-09/25/68	0	1	
GRSM0164	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/25/68-09/25/68	0	1	
GRSM0178	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/24/68-09/24/68	0	1	
GRSM0182	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/10/63-09/30/68	5	16	
GRSM0184	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	11/01/67-01/03/83	15	71	
GRSM0186	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	04/23/76-04/23/76	0	1	
GRSM0221	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/25/68-09/25/68	0	1	
GRSM0223	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/06/67-08/01/68	0	4	
GRSM0227	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/25/68-09/25/68	0	1	
GRSM0240	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/24/68-09/24/68	0	1	
GRSM0249	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	06/27/68-03/28/73	4	14	
GRSM0251	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	10/21/75-06/07/76	0	10	
GRSM0010	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/06/70-05/09/72	1	10	
GRSM0031	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/23/73-09/06/73	0	4	
GRSM0056	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	05/21/68-05/24/72	4	11	
GRSM0076	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/25/68-09/25/68	0	1	
GRSM0091	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/23/73-08/08/74	0	2	
GRSM0107	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/24/68-09/24/68	0	1	
GRSM0120	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/24/68-09/24/68	0	1	
GRSM0144	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/25/68-09/25/68	0	1	
GRSM0161	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/25/68-09/25/68	0	1	
GRSM0164	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/25/68-09/25/68	0	1	
GRSM0178	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/24/68-09/24/68	0	1	
GRSM0182	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/10/63-09/30/68	5	14	
GRSM0184	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/01/67-01/03/83	15	71	
GRSM0186	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	04/23/76-04/23/76	0	1	
GRSM0214	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	05/05/78-05/05/78	0	1	
GRSM0216	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	05/04/78-05/04/78	0	1	
GRSM0217	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	05/06/78-05/06/78	0	1	
GRSM0221	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/25/68-09/25/68	0	1	
GRSM0223	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/06/67-08/01/68	0	4	
GRSM0227	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/25/68-09/25/68	0	1	
GRSM0240	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/24/68-09/24/68	0	1	
GRSM0249	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/27/68-03/28/73	4	15	
GRSM0251	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/21/75-09/07/76	0	13	
GRSM0007	No	70305	SALINITY BASED ON CONDUCTIVITY	07/16/74-07/19/78	4	3	
GRSM0009	No	70305	SALINITY BASED ON CONDUCTIVITY	08/18/74-02/15/77	2	4	
GRSM0013	Yes	70305	SALINITY BASED ON CONDUCTIVITY	07/16/74-07/19/78	4	3	
GRSM0016	Yes	70305	SALINITY BASED ON CONDUCTIVITY	07/16/74-07/29/75	1	2	
GRSM0022	No	70305	SALINITY BASED ON CONDUCTIVITY	07/16/74-07/29/75	1	2	
GRSM0024	Yes	70305	SALINITY BASED ON CONDUCTIVITY	07/16/74-07/19/78	4	3	
GRSM0027	Yes	70305	SALINITY BASED ON CONDUCTIVITY	07/16/74-07/29/75	1	2	
GRSM0037	No	70305	SALINITY BASED ON CONDUCTIVITY	05/29/74-12/08/75	1	4	
GRSM0055	No	70305	SALINITY BASED ON CONDUCTIVITY	02/27/74-12/08/75	1	5	
GRSM0063	Yes	70305	SALINITY BASED ON CONDUCTIVITY	07/16/74-07/29/75	1	2	
GRSM0085	Yes	70305	SALINITY BASED ON CONDUCTIVITY	08/18/74-08/19/74	0	2	
GRSM0088	Yes	70305	SALINITY BASED ON CONDUCTIVITY	08/19/74-08/19/74	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0101	No	70305	SALINITY BASED ON CONDUCTIVITY	08/18/74-08/19/74	0	2	
GRSM0109	Yes	70305	SALINITY BASED ON CONDUCTIVITY	08/18/74-08/19/74	0	2	
GRSM0185	Yes	70305	SALINITY BASED ON CONDUCTIVITY	01/29/74-02/09/77	3	18	
GRSM0256	No	70305	SALINITY BASED ON CONDUCTIVITY	03/11/74-02/09/77	2	10	
GRSM0003	No	70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	08/16/93-08/16/93	0	1	
GRSM0020	Yes	70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	08/16/93-08/16/93	0	1	
GRSM0069	Yes	70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	08/16/93-08/16/93	0	2	
GRSM0230	Yes	70320	MOISTURE CONTENT (PERCENT OF TOTAL WET WEIGHT)	06/05/80-06/05/80	0	1	
GRSM0003	No	70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	08/16/93-08/16/93	0	1	
GRSM0020	Yes	70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	08/16/93-08/16/93	0	1	
GRSM0069	Yes	70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	08/16/93-08/16/93	0	2	
GRSM0182	Yes	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	03/25/65-08/24/94	29	35	S
GRSM0184	Yes	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/17/77-03/30/93	15	98	
GRSM0182	Yes	70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	03/25/65-03/25/65	0	1	
GRSM0182	Yes	70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	03/25/65-03/25/65	0	1	
GRSM0182	Yes	70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	03/25/65-03/25/65	0	1	
GRSM0010	No	70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	02/24/79-02/24/79	0	1	
GRSM0182	Yes	70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	03/25/65-03/25/65	0	1	
GRSM0010	No	70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	02/24/79-03/21/80	1	2	
GRSM0182	Yes	70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	03/25/65-03/25/65	0	1	
GRSM0010	No	70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	02/24/79-03/21/80	1	2	
GRSM0182	Yes	70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	03/25/65-03/25/65	0	1	
GRSM0010	No	70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	02/24/79-03/21/80	1	2	
GRSM0182	Yes	70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	03/25/65-03/25/65	0	1	
GRSM0010	No	70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	02/24/79-03/21/80	1	2	
GRSM0182	Yes	70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	03/25/65-03/25/65	0	1	
GRSM0010	No	70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	02/24/79-03/21/80	1	2	
GRSM0010	No	70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	02/24/79-03/21/80	1	2	
GRSM0010	No	70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	02/24/79-03/21/80	1	2	
GRSM0010	No	70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	03/21/80-03/21/80	0	1	
GRSM0010	No	70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	03/21/80-03/21/80	0	1	
GRSM0007	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-07/02/79	1	5	
GRSM0009	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/23/76-06/18/91	14	57	
GRSM0013	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-08/05/87	10	9	
GRSM0015	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/05/87-08/05/87	0	1	
GRSM0016	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-08/05/87	10	9	
GRSM0018	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/05/87-08/05/87	0	1	
GRSM0022	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-07/02/79	1	5	
GRSM0024	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/77-08/05/87	10	8	
GRSM0026	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/05/87-08/05/87	0	1	
GRSM0027	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-08/05/87	10	9	
GRSM0029	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/05/87-08/05/87	0	1	
GRSM0032	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	0	1	
GRSM0034	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	0	1	
GRSM0037	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	12/14/76-03/12/81	4	28	
GRSM0038	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	0	1	
GRSM0040	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	0	1	
GRSM0042	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	0	1	
GRSM0044	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	0	1	
GRSM0045	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	0	1	
GRSM0047	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	0	1	
GRSM0055	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/17/77-10/22/86	9	91	
GRSM0063	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-08/05/87	10	5	
GRSM0065	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/05/87-08/05/87	0	1	
GRSM0066	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	0	1	
GRSM0068	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	0	1	
GRSM0091	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/03/77-03/10/78	0	2	
GRSM0151	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/28/78-04/11/79	0	2	
GRSM0155	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/28/78-04/11/79	0	2	
GRSM0157	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/28/78-04/11/79	0	2	
GRSM0182	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/15/90-12/07/92	2	12	
GRSM0184	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/07/73-11/17/92	19	41	
GRSM0185	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/09/77-09/25/91	14	106	
GRSM0189	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/28/78-04/11/79	0	2	
GRSM0196	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/20/91-08/20/91	0	1	
GRSM0197	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/01/90-08/01/90	0	1	
GRSM0199	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/01/90-08/01/90	0	1	
GRSM0203	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/01/90-08/01/90	0	1	
GRSM0205	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/01/90-08/01/90	0	1	
GRSM0210	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/01/90-08/01/90	0	1	
GRSM0212	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/01/90-08/01/90	0	1	
GRSM0256	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/20/77-09/19/91	14	87	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0110	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/02/81-12/02/81	0	1	
GRSM0112	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	11/30/81-01/03/82	0	34	
GRSM0137	Yes	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/02/81-12/02/81	0	1	
GRSM0138	Yes	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/02/81-12/02/81	0	1	
GRSM0142	Yes	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/02/81-12/02/81	0	1	
GRSM0175	Yes	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/02/81-12/02/81	0	1	
GRSM0016	Yes	70511	PHOSPHORUS,ORTHO,IN BOTTOM DEPOS.(MG/KG-P DRY WT)	06/17/80-08/12/81	1	2	
GRSM0027	Yes	70511	PHOSPHORUS,ORTHO,IN BOTTOM DEPOS.(MG/KG-P DRY WT)	06/17/80-06/17/80	0	1	
GRSM0188	Yes	70977	INSTRUMENT RATIO, LAB/FIELD CONCENTRATIONS, NUMBER	10/17/84-10/17/84	0	3	
GRSM0094	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/26/82-03/26/82	0	1	
GRSM0108	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/26/82-03/26/82	0	1	
GRSM0110	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/26/82-03/26/82	0	1	
GRSM0111	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	07/29/82-07/29/82	0	1	
GRSM0112	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/17/82-08/01/82	0	91	
GRSM0115	Yes	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	08/11/82-08/11/82	0	1	
GRSM0134	Yes	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/26/82-03/26/82	0	1	
GRSM0137	Yes	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/24/82-04/22/82	0	2	
GRSM0138	Yes	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/24/82-03/24/82	0	1	
GRSM0139	Yes	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/22/82-03/22/82	0	1	
GRSM0143	Yes	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/22/82-03/22/82	0	1	
GRSM0145	Yes	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/24/82-03/24/82	0	1	
GRSM0148	Yes	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/24/82-03/24/82	0	1	
GRSM0150	Yes	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/26/82-03/26/82	0	1	
GRSM0160	Yes	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/20/82-04/20/82	0	1	
GRSM0163	Yes	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/23/82-04/20/82	0	2	
GRSM0167	Yes	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/21/82-04/21/82	0	1	
GRSM0173	Yes	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/25/82-03/25/82	0	1	
GRSM0175	Yes	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/25/82-03/25/82	0	1	
GRSM0184	Yes	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	05/29/79-02/09/81	1	3	
GRSM0031	No	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	01/23/73-09/06/73	0	3	
GRSM0072	Yes	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	12/13/83-05/08/85	1	24	
GRSM0091	Yes	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	10/03/77-03/10/78	0	2	
GRSM0182	Yes	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	12/10/85-02/21/86	0	2	
GRSM0184	Yes	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	11/07/73-02/11/86	12	46	
GRSM0229	Yes	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	12/13/83-05/15/85	1	51	
GRSM0010	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/19/56-09/25/62	5	49	
GRSM0074	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	11/06/56-04/13/62	5	8	
GRSM0094	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/26/82-03/26/82	0	1	
GRSM0108	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/26/82-03/26/82	0	1	
GRSM0110	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/26/82-03/26/82	0	1	
GRSM0111	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	07/29/82-07/29/82	0	1	
GRSM0112	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/17/82-08/01/82	0	91	
GRSM0115	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	08/11/82-08/11/82	0	1	
GRSM0134	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/26/82-03/26/82	0	1	
GRSM0137	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/24/82-04/22/82	0	2	
GRSM0138	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/24/82-03/24/82	0	1	
GRSM0139	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/22/82-03/22/82	0	1	
GRSM0143	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/22/82-03/22/82	0	1	
GRSM0145	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/24/82-03/24/82	0	1	
GRSM0148	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/24/82-03/24/82	0	1	
GRSM0150	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/26/82-03/26/82	0	1	
GRSM0160	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	04/20/82-04/20/82	0	1	
GRSM0163	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/23/82-04/20/82	0	2	
GRSM0167	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	04/21/82-04/21/82	0	1	
GRSM0173	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/25/82-03/25/82	0	1	
GRSM0175	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/25/82-03/25/82	0	1	
GRSM0249	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/17/57-09/17/62	4	48	
GRSM0010	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/24/61-09/24/63	1	24	
GRSM0031	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	01/23/73-09/06/73	0	4	
GRSM0041	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/18/82-10/18/82	0	1	
GRSM0050	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/20/84-11/20/84	0	1	
GRSM0052	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/20/84-11/20/84	0	1	
GRSM0056	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/21/68-03/16/71	2	8	
GRSM0061	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/19/82-10/19/82	0	1	
GRSM0071	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/25/85-07/11/85	0	4	
GRSM0072	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	12/13/83-05/08/85	1	24	
GRSM0076	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/25/68-09/25/68	0	1	
GRSM0077	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/18/82-10/18/82	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0080	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/20/84-11/20/84	0	1	
GRSM0081	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/25/85-07/08/85	0	4	
GRSM0086	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/20/85-07/03/85	0	4	
GRSM0095	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/03/85-07/03/85	0	1	
GRSM0099	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	04/22/85-07/16/85	0	2	
GRSM0100	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/08/85-07/08/85	0	1	
GRSM0106	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/25/85-07/16/85	0	4	
GRSM0107	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/24/68-09/24/68	0	1	
GRSM0120	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/24/68-09/24/68	0	1	
GRSM0144	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/25/68-09/25/68	0	1	
GRSM0152	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/10/85-07/10/85	0	1	
GRSM0161	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/25/68-09/25/68	0	1	
GRSM0164	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/25/68-09/25/68	0	1	
GRSM0177	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/20/84-11/20/84	0	1	
GRSM0178	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/24/68-09/24/68	0	1	
GRSM0182	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/10/63-09/30/68	5	20	
GRSM0184	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/18/62-08/02/71	8	24	
GRSM0186	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	04/23/76-04/23/76	0	1	
GRSM0190	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/27/85-07/10/85	0	4	
GRSM0191	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/20/84-11/20/84	0	1	
GRSM0194	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/25/85-07/08/85	0	4	
GRSM0195	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/16/85-07/16/85	0	1	
GRSM0206	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/08/85-07/08/85	0	1	
GRSM0208	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/29/84-11/29/84	0	1	
GRSM0213	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/28/85-07/16/85	0	4	
GRSM0221	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/25/68-09/25/68	0	1	
GRSM0223	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/06/67-08/01/68	0	4	
GRSM0227	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/25/68-09/25/68	0	1	
GRSM0229	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	12/13/83-05/15/85	1	51	
GRSM0237	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/28/85-07/10/85	0	4	
GRSM0240	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/24/68-09/24/68	0	1	
GRSM0249	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/17/61-03/28/73	11	37	
GRSM0255	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/07/85-07/07/85	0	1	
GRSM0259	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/24/85-07/07/85	0	4	
GRSM0125	Yes	71870	BROMIDE (MG/L AS BR)	10/29/91-10/29/91	0	1	
GRSM0129	Yes	71870	BROMIDE (MG/L AS BR)	10/29/91-10/29/91	0	1	
GRSM0132	Yes	71870	BROMIDE (MG/L AS BR)	10/31/91-10/31/91	0	1	
GRSM0135	Yes	71870	BROMIDE (MG/L AS BR)	10/30/91-10/30/91	0	1	
GRSM0140	Yes	71870	BROMIDE (MG/L AS BR)	10/30/91-10/30/91	0	1	
GRSM0147	Yes	71870	BROMIDE (MG/L AS BR)	10/29/91-10/29/91	0	1	
GRSM0149	Yes	71870	BROMIDE (MG/L AS BR)	10/29/91-10/29/91	0	1	
GRSM0153	Yes	71870	BROMIDE (MG/L AS BR)	10/30/91-10/30/91	0	1	
GRSM0154	Yes	71870	BROMIDE (MG/L AS BR)	10/31/91-10/31/91	0	1	
GRSM0156	Yes	71870	BROMIDE (MG/L AS BR)	10/31/91-10/31/91	0	1	
GRSM0158	Yes	71870	BROMIDE (MG/L AS BR)	10/31/91-10/31/91	0	1	
GRSM0159	Yes	71870	BROMIDE (MG/L AS BR)	10/31/91-10/31/91	0	1	
GRSM0162	Yes	71870	BROMIDE (MG/L AS BR)	10/31/91-10/31/91	0	1	
GRSM0165	Yes	71870	BROMIDE (MG/L AS BR)	10/31/91-10/31/91	0	1	
GRSM0170	Yes	71870	BROMIDE (MG/L AS BR)	10/29/91-10/29/91	0	1	
GRSM0172	Yes	71870	BROMIDE (MG/L AS BR)	10/31/91-10/31/91	0	1	
GRSM0174	Yes	71870	BROMIDE (MG/L AS BR)	10/29/91-10/29/91	0	1	
GRSM0176	Yes	71870	BROMIDE (MG/L AS BR)	10/30/91-10/30/91	0	1	
GRSM0179	Yes	71870	BROMIDE (MG/L AS BR)	10/30/91-10/30/91	0	1	
GRSM0180	Yes	71870	BROMIDE (MG/L AS BR)	10/30/91-10/30/91	0	1	
GRSM0182	Yes	71870	BROMIDE (MG/L AS BR)	10/30/91-10/30/91	0	1	
GRSM0183	Yes	71870	BROMIDE (MG/L AS BR)	10/29/91-10/29/91	0	1	
GRSM0184	Yes	71870	BROMIDE (MG/L AS BR)	10/31/91-10/31/91	0	1	
GRSM0009	No	71876	SOAPS, RESIN ACID (MG/L)	11/18/75-12/08/75	0	2	
GRSM0256	No	71876	SOAPS, RESIN ACID (MG/L)	04/06/72-04/06/72	0	1	
GRSM0009	No	71880	FORMALDEHYDE (MG/L)	11/18/75-12/08/75	0	2	
GRSM0010	No	71885	IRON (UG/L AS FE)	10/24/61-09/24/63	1	24	
GRSM0050	Yes	71885	IRON (UG/L AS FE)	11/20/84-11/20/84	0	1	
GRSM0052	No	71885	IRON (UG/L AS FE)	11/20/84-11/20/84	0	1	
GRSM0071	Yes	71885	IRON (UG/L AS FE)	03/25/85-07/11/85	0	4	
GRSM0080	No	71885	IRON (UG/L AS FE)	11/20/84-11/20/84	0	1	
GRSM0081	Yes	71885	IRON (UG/L AS FE)	03/25/85-07/08/85	0	4	
GRSM0086	Yes	71885	IRON (UG/L AS FE)	03/20/85-07/03/85	0	4	
GRSM0095	Yes	71885	IRON (UG/L AS FE)	07/03/85-07/03/85	0	1	
GRSM0099	No	71885	IRON (UG/L AS FE)	04/22/85-07/16/85	0	2	
GRSM0100	Yes	71885	IRON (UG/L AS FE)	07/08/85-07/08/85	0	1	
GRSM0106	No	71885	IRON (UG/L AS FE)	03/25/85-07/16/85	0	4	
GRSM0152	Yes	71885	IRON (UG/L AS FE)	07/10/85-07/10/85	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0177	No	71885	IRON (UG/L AS FE)	11/20/84-11/20/84	0	1	
GRSM0184	Yes	71885	IRON (UG/L AS FE)	10/18/62-09/06/63	0	11	
GRSM0190	Yes	71885	IRON (UG/L AS FE)	03/27/85-07/10/85	0	4	
GRSM0191	No	71885	IRON (UG/L AS FE)	11/20/84-11/20/84	0	1	
GRSM0194	Yes	71885	IRON (UG/L AS FE)	03/25/85-07/08/85	0	4	
GRSM0195	Yes	71885	IRON (UG/L AS FE)	07/16/85-07/16/85	0	1	
GRSM0206	Yes	71885	IRON (UG/L AS FE)	07/08/85-07/08/85	0	1	
GRSM0208	No	71885	IRON (UG/L AS FE)	11/29/84-11/29/84	0	1	
GRSM0213	Yes	71885	IRON (UG/L AS FE)	03/28/85-07/16/85	0	4	
GRSM0237	Yes	71885	IRON (UG/L AS FE)	03/28/85-07/10/85	0	4	
GRSM0249	No	71885	IRON (UG/L AS FE)	10/17/61-09/16/63	1	23	
GRSM0255	Yes	71885	IRON (UG/L AS FE)	07/07/85-07/07/85	0	1	
GRSM0259	No	71885	IRON (UG/L AS FE)	03/24/85-07/07/85	0	4	
GRSM0091	Yes	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	03/10/78-03/10/78	0	1	
GRSM0182	Yes	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	10/17/85-02/21/86	0	2	
GRSM0184	Yes	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	01/26/78-11/18/85	7	31	
GRSM0214	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	05/05/78-05/05/78	0	1	
GRSM0216	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	05/04/78-05/04/78	0	1	
GRSM0217	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	05/06/78-05/06/78	0	1	
GRSM0091	Yes	71887	NITROGEN, TOTAL, AS NO3 - MG/L	10/03/77-03/10/78	0	2	
GRSM0184	Yes	71887	NITROGEN, TOTAL, AS NO3 - MG/L	10/11/73-09/08/82	8	42	
GRSM0056	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	09/21/70-09/21/70	0	1	
GRSM0182	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	10/17/85-02/05/91	5	11	
GRSM0184	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	10/11/73-08/20/91	17	43	
GRSM0186	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	04/23/76-04/23/76	0	1	
GRSM0184	Yes	71895	MERCURY, SUSPENDED (UG/L AS HG)	10/11/73-03/21/80	6	12	
GRSM0007	No	71900	MERCURY, TOTAL (UG/L AS HG)	07/16/74-07/31/79	5	8	
GRSM0009	No	71900	MERCURY, TOTAL (UG/L AS HG)	01/02/75-11/17/94	19	93	
GRSM0011	No	71900	MERCURY, TOTAL (UG/L AS HG)	12/08/70-12/08/70	0	1	
GRSM0012	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	08/05/70-08/05/70	0	1	
GRSM0013	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	07/16/74-08/04/82	8	11	
GRSM0014	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	08/05/87-08/05/87	0	1	
GRSM0016	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	07/16/74-08/04/82	8	11	
GRSM0017	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	08/05/87-08/05/87	0	1	
GRSM0022	No	71900	MERCURY, TOTAL (UG/L AS HG)	07/16/74-07/31/79	5	8	
GRSM0024	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	07/16/74-08/04/82	8	10	
GRSM0025	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	08/05/87-08/05/87	0	1	
GRSM0027	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	07/16/74-08/04/82	8	11	
GRSM0028	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	08/05/87-08/05/87	0	1	
GRSM0037	No	71900	MERCURY, TOTAL (UG/L AS HG)	12/08/70-03/12/81	10	18	
GRSM0054	No	71900	MERCURY, TOTAL (UG/L AS HG)	02/15/77-10/24/78	1	8	
GRSM0055	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/04/70-08/20/86	16	49	
GRSM0056	No	71900	MERCURY, TOTAL (UG/L AS HG)	12/08/70-12/08/70	0	1	
GRSM0057	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/17/77-06/17/80	3	17	
GRSM0063	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	07/16/74-07/31/79	5	8	
GRSM0064	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	08/05/87-08/05/87	0	1	
GRSM0070	No	71900	MERCURY, TOTAL (UG/L AS HG)	12/08/70-12/08/70	0	1	
GRSM0073	No	71900	MERCURY, TOTAL (UG/L AS HG)	12/08/70-12/08/70	0	1	
GRSM0091	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	10/03/77-03/10/78	0	2	
GRSM0094	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/26/82-03/26/82	0	1	
GRSM0108	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/26/82-03/26/82	0	1	
GRSM0110	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/26/82-03/26/82	0	1	
GRSM0112	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/26/82-06/21/82	0	12	
GRSM0134	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	03/26/82-03/26/82	0	1	
GRSM0137	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	03/24/82-04/22/82	0	2	
GRSM0138	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	03/24/82-03/24/82	0	1	
GRSM0139	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	03/22/82-03/22/82	0	1	
GRSM0143	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	03/22/82-03/22/82	0	1	
GRSM0145	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	03/22/82-03/22/82	0	1	
GRSM0146	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	03/24/82-03/24/82	0	1	
GRSM0148	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	03/24/82-03/24/82	0	1	
GRSM0150	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	03/26/82-03/26/82	0	1	
GRSM0151	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	11/28/78-11/28/78	0	1	
GRSM0155	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	11/28/78-11/28/78	0	1	
GRSM0160	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	04/20/82-04/20/82	0	1	
GRSM0163	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	03/23/82-04/20/82	0	2	
GRSM0167	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	04/21/82-04/21/82	0	1	
GRSM0168	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	04/21/82-04/21/82	0	1	
GRSM0173	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	03/25/82-03/25/82	0	1	
GRSM0175	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	03/25/82-03/25/82	0	1	
GRSM0182	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	10/08/70-10/08/70	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0184	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	10/11/73-09/08/82	8	22	
GRSM0185	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	05/26/76-11/07/94	18	92	
GRSM0189	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	11/28/78-11/28/78	0	1	
GRSM0202	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	04/24/74-01/14/75	0	4	
GRSM0214	No	71900	MERCURY, TOTAL (UG/L AS HG)	05/05/78-05/05/78	0	1	
GRSM0216	No	71900	MERCURY, TOTAL (UG/L AS HG)	05/04/78-05/04/78	0	1	
GRSM0217	No	71900	MERCURY, TOTAL (UG/L AS HG)	05/06/78-05/06/78	0	1	
GRSM0218	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/13/81-08/13/81	0	1	
GRSM0219	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/13/81-08/13/81	0	1	
GRSM0225	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	08/13/81-08/13/81	0	1	
GRSM0226	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	08/13/81-08/13/81	0	1	
GRSM0230	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	06/05/80-06/05/80	0	1	
GRSM0236	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/13/81-08/13/81	0	1	
GRSM0239	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/13/81-08/13/81	0	1	
GRSM0249	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/23/71-03/23/71	0	1	
GRSM0250	No	71900	MERCURY, TOTAL (UG/L AS HG)	02/08/77-02/08/77	0	1	
GRSM0256	No	71900	MERCURY, TOTAL (UG/L AS HG)	07/09/70-12/05/94	24	107	
GRSM0262	No	71900	MERCURY, TOTAL (UG/L AS HG)	02/23/77-10/11/78	1	8	
GRSM0264	No	71900	MERCURY, TOTAL (UG/L AS HG)	10/20/82-12/14/92	10	77	
GRSM0003	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/16/93-08/16/93	0	1	
GRSM0012	Yes	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/05/70-08/05/70	0	1	
GRSM0020	Yes	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/16/93-08/16/93	0	1	
GRSM0027	Yes	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/17/80-08/04/82	2	2	
GRSM0035	Yes	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0053	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0055	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/15/81-11/29/84	3	5	
GRSM0069	Yes	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/16/93-08/16/93	0	2	
GRSM0097	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/27/73-06/27/73	0	1	
GRSM0151	Yes	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	11/28/78-11/28/78	0	1	
GRSM0155	Yes	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	11/28/78-11/28/78	0	1	
GRSM0157	Yes	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	11/28/78-11/28/78	0	1	
GRSM0182	Yes	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	10/17/85-10/17/85	0	1	
GRSM0184	Yes	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	03/05/74-06/14/74	0	2	
GRSM0185	Yes	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	11/28/78-04/18/85	6	7	
GRSM0189	Yes	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	11/28/78-11/28/78	0	1	
GRSM0230	Yes	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/05/80-06/05/80	0	1	
GRSM0256	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/26/81-08/15/85	4	5	
GRSM0263	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	10/29/70-10/29/70	0	1	
GRSM0005	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	09/23/87-11/16/93	6	6	
GRSM0020	Yes	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	11/17/93-11/17/93	0	3	
GRSM0035	Yes	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	09/23/87-11/25/88	1	3	
GRSM0055	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	02/22/82-02/22/82	0	2	
GRSM0069	Yes	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	12/01/92-11/18/93	0	4	
GRSM0185	Yes	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/24/84-10/24/84	0	9	
GRSM0231	Yes	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	06/09/80-06/09/80	0	1	
GRSM0256	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	02/23/82-08/28/84	2	6	
GRSM0188	Yes	71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	10/17/84-10/17/84	0	2	
GRSM0005	No	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/23/87-11/16/93	6	5	
GRSM0020	Yes	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	11/17/93-11/17/93	0	1	
GRSM0035	Yes	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/23/87-11/25/88	1	3	
GRSM0055	No	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	02/22/82-02/22/82	0	2	
GRSM0069	Yes	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	12/01/92-11/18/93	0	2	
GRSM0185	Yes	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/24/84-10/24/84	0	9	
GRSM0231	Yes	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	06/09/80-06/09/80	0	1	
GRSM0256	No	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	02/23/82-08/28/84	2	6	
GRSM0005	No	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/23/87-11/25/88	1	3	
GRSM0035	Yes	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/23/87-11/25/88	1	3	
GRSM0055	No	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	02/22/82-02/22/82	0	2	
GRSM0185	Yes	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/24/84-10/24/84	0	9	
GRSM0231	Yes	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	06/09/80-06/09/80	0	1	
GRSM0256	No	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	02/23/82-08/28/84	2	6	
GRSM0005	No	71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/23/87-11/25/88	1	3	
GRSM0035	Yes	71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/23/87-11/25/88	1	3	
GRSM0055	No	71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	02/22/82-02/22/82	0	2	
GRSM0185	Yes	71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/24/84-10/24/84	0	9	
GRSM0231	Yes	71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	06/09/80-06/09/80	0	1	
GRSM0256	No	71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	02/23/82-08/28/84	2	6	
GRSM0005	No	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	09/23/87-11/25/88	1	3	
GRSM0035	Yes	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	09/23/87-11/25/88	1	3	
GRSM0055	No	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	02/22/82-02/22/82	0	2	
GRSM0185	Yes	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	10/24/84-10/24/84	0	9	
GRSM0231	Yes	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	06/09/80-06/09/80	0	1	

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Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0256	No	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	02/23/82-08/28/84	2	6	
GRSM0005	No	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	09/23/87-11/16/93	6	5	
GRSM0020	Yes	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	11/17/93-11/17/93	0	1	
GRSM0035	Yes	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	09/23/87-11/25/88	1	3	
GRSM0055	No	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	02/22/82-02/22/82	0	2	
GRSM0069	Yes	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	12/01/92-11/18/93	0	2	
GRSM0185	Yes	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/24/84-10/24/84	0	9	
GRSM0231	Yes	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	06/09/80-06/09/80	0	1	
GRSM0256	No	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	02/23/82-08/28/84	2	6	
GRSM0050	Yes	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	11/20/84-11/20/84	0	1	
GRSM0052	No	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	11/20/84-11/20/84	0	1	
GRSM0071	Yes	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/25/85-07/11/85	0	4	
GRSM0080	No	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	11/20/84-11/20/84	0	1	
GRSM0081	Yes	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/25/85-07/08/85	0	4	
GRSM0086	Yes	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/20/85-07/03/85	0	4	
GRSM0095	Yes	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	07/03/85-07/03/85	0	1	
GRSM0099	No	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	04/22/85-07/16/85	0	2	
GRSM0100	Yes	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	07/08/85-07/08/85	0	1	
GRSM0106	No	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/25/85-07/16/85	0	4	
GRSM0152	Yes	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	07/10/85-07/10/85	0	1	
GRSM0177	No	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	11/20/84-11/20/84	0	1	
GRSM0190	Yes	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/27/85-07/10/85	0	4	
GRSM0191	No	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	11/20/84-11/20/84	0	1	
GRSM0194	Yes	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/25/85-07/08/85	0	4	
GRSM0195	Yes	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	07/16/85-07/16/85	0	1	
GRSM0206	Yes	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	07/08/85-07/08/85	0	1	
GRSM0208	No	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	11/29/84-11/29/84	0	1	
GRSM0213	Yes	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/28/85-07/16/85	0	4	
GRSM0237	Yes	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/28/85-07/10/85	0	4	
GRSM0255	Yes	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	07/07/85-07/07/85	0	1	
GRSM0259	No	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/24/85-07/07/85	0	4	
GRSM0004	No	72025	DEPTH OF POND OR RESERVOIR IN FEET	06/03/73-10/26/73	0	3	
GRSM0019	Yes	72025	DEPTH OF POND OR RESERVOIR IN FEET	06/02/73-10/26/73	0	3	
GRSM0023	Yes	72025	DEPTH OF POND OR RESERVOIR IN FEET	06/02/73-10/26/73	0	3	
GRSM0030	Yes	72025	DEPTH OF POND OR RESERVOIR IN FEET	06/02/73-10/26/73	0	3	
GRSM0055	No	72025	DEPTH OF POND OR RESERVOIR IN FEET	03/06/84-03/06/84	0	1	
GRSM0060	Yes	72025	DEPTH OF POND OR RESERVOIR IN FEET	06/02/73-10/26/73	0	3	
GRSM0126	Yes	72025	DEPTH OF POND OR RESERVOIR IN FEET	06/27/73-11/13/73	0	3	
GRSM0247	No	72025	DEPTH OF POND OR RESERVOIR IN FEET	03/24/73-09/20/73	0	3	
GRSM0257	No	72025	DEPTH OF POND OR RESERVOIR IN FEET	03/24/73-09/20/73	0	3	
GRSM0009	No	72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	02/15/77-12/06/77	0	4	
GRSM0037	No	72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	12/08/75-03/12/81	5	53	
GRSM0055	No	72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	11/24/75-09/23/86	10	120	
GRSM0185	Yes	72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	02/09/77-12/29/77	0	13	
GRSM0256	No	72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	08/24/84-08/24/84	0	1	
GRSM0230	Yes	74010	IRON, TOTAL (MG/L AS FE)	06/05/80-06/05/80	0	1	
GRSM0182	Yes	75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	02/27/89-02/24/93	3	9	
GRSM0184	Yes	75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	06/20/89-03/30/93	3	8	
GRSM0182	Yes	75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	02/27/89-02/24/93	3	9	
GRSM0184	Yes	75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	06/20/89-03/30/93	3	8	
GRSM0182	Yes	75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	02/27/89-02/24/93	3	9	
GRSM0184	Yes	75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	06/20/89-03/30/93	3	8	
GRSM0182	Yes	75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	02/27/89-02/24/93	3	9	
GRSM0184	Yes	75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	06/20/89-03/30/93	3	8	
GRSM0182	Yes	75990	URANIUM,NATURAL,1 SIGMA PRC EST,DISS,WATER UG/L	02/21/90-08/24/94	4	9	
GRSM0184	Yes	75990	URANIUM,NATURAL,1 SIGMA PRC EST,DISS,WATER UG/L	05/21/90-03/30/93	2	6	
GRSM0182	Yes	76001	RADIUM 226,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	02/21/90-08/24/94	4	9	
GRSM0184	Yes	76001	RADIUM 226,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	05/21/90-03/30/93	2	6	
GRSM0182	Yes	76004	ALPHA GROSS,SUSP,1 SIGMA PRC EST AS TH230,WTR PC/L	02/27/89-02/24/93	3	9	
GRSM0184	Yes	76004	ALPHA GROSS,SUSP,1 SIGMA PRC EST AS TH230,WTR PC/L	06/20/89-03/30/93	3	8	
GRSM0182	Yes	76005	BETA GROSS,SUSP,1 SIGMA PRC EST AS SR90/Y90 PC/L	02/27/89-02/24/93	3	9	
GRSM0184	Yes	76005	BETA GROSS,SUSP,1 SIGMA PRC EST AS SR90/Y90 PC/L	06/20/89-03/30/93	3	8	
GRSM0188	Yes	76530	BIPHENYL TISSUE ,WET WGT,MG/KG	10/17/84-10/17/84	0	1	
GRSM0005	No	78457	CHLORDENE, ALPHA-, FISH TISSUE, WET WEIGHT, MG/KG	11/25/88-11/16/93	4	3	
GRSM0020	Yes	78457	CHLORDENE, ALPHA-, FISH TISSUE, WET WEIGHT, MG/KG	11/17/93-11/17/93	0	1	
GRSM0035	Yes	78457	CHLORDENE, ALPHA-, FISH TISSUE, WET WEIGHT, MG/KG	11/25/88-11/25/88	0	1	
GRSM0069	Yes	78457	CHLORDENE, ALPHA-, FISH TISSUE, WET WEIGHT, MG/KG	12/01/92-11/18/93	0	2	
GRSM0005	No	78458	CHLORDENE, BETA-, FISH TISSUE, WET WEIGHT, MG/KG	11/25/88-11/25/88	0	1	
GRSM0035	Yes	78458	CHLORDENE, BETA-, FISH TISSUE, WET WEIGHT, MG/KG	11/25/88-11/25/88	0	1	
GRSM0005	No	78459	CHLORDENE, GAMMA-, FISH TISSUE, WET WEIGHT, MG/KG	11/25/88-11/16/93	4	3	
GRSM0020	Yes	78459	CHLORDENE, GAMMA-, FISH TISSUE, WET WEIGHT, MG/KG	11/17/93-11/17/93	0	1	
GRSM0035	Yes	78459	CHLORDENE, GAMMA-, FISH TISSUE, WET WEIGHT, MG/KG	11/25/88-11/25/88	0	1	

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Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0069	Yes	78459	CHLORDENE, GAMMA-, FISH TISSUE, WET WEIGHT, MG/KG	12/01/92-11/18/93	0	2	
GRSM0188	Yes	78907	HEXACHLOROBIPHENYLS IN FISH TISSUE WET WGT. MG/KG	10/17/84-10/17/84	0	1	
GRSM0005	No	78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	11/25/88-11/16/93	4	3	
GRSM0020	Yes	78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	11/17/93-11/17/93	0	1	
GRSM0035	Yes	78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	11/25/88-11/25/88	0	1	
GRSM0069	Yes	78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	12/01/92-11/18/93	0	2	
GRSM0188	Yes	78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	10/17/84-10/17/84	0	1	
GRSM0005	No	78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	11/25/88-11/16/93	4	3	
GRSM0020	Yes	78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	11/17/93-11/17/93	0	1	
GRSM0035	Yes	78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	11/25/88-11/25/88	0	1	
GRSM0069	Yes	78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	12/01/92-11/18/93	0	2	
GRSM0188	Yes	78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	10/17/84-10/17/84	0	1	
GRSM0005	No	79006	CHLORDENE IN FISH UG/KG	09/23/87-11/16/93	6	4	
GRSM0020	Yes	79006	CHLORDENE IN FISH UG/KG	11/17/93-11/17/93	0	1	
GRSM0035	Yes	79006	CHLORDENE IN FISH UG/KG	09/23/87-11/25/88	1	2	
GRSM0069	Yes	79006	CHLORDENE IN FISH UG/KG	12/01/92-11/18/93	0	2	
GRSM0188	Yes	79026	1,2,3,4,-TETRACHLOROBENZENE IN FISH WET WGT MG/KG	10/17/84-10/17/84	0	1	
GRSM0182	Yes	80020	URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD	10/25/68-02/25/87	18	3	
GRSM0184	Yes	80020	URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD	10/03/67-06/08/87	19	15	
GRSM0182	Yes	80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	10/12/67-02/24/93	25	15	S
GRSM0184	Yes	80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	10/03/67-03/30/93	25	26	S
GRSM0182	Yes	80040	ALPHA,SUSPENDED GROSS, AS URANIUM-NATURAL, UG/L	10/12/67-02/24/93	25	15	S
GRSM0184	Yes	80040	ALPHA,SUSPENDED GROSS, AS URANIUM-NATURAL, UG/L	10/03/67-03/30/93	25	26	S
GRSM0182	Yes	80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	10/12/67-02/24/93	25	15	S
GRSM0184	Yes	80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	10/03/67-03/30/93	25	26	S
GRSM0182	Yes	80060	BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L	10/12/67-02/24/93	25	15	S
GRSM0184	Yes	80060	BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L	10/03/67-03/30/93	25	26	S
GRSM0035	Yes	80111	NITROGEN, TOTAL IN DRIED MATERIAL (MG/KG)	06/27/73-06/27/73	0	1	
GRSM0053	No	80111	NITROGEN, TOTAL IN DRIED MATERIAL (MG/KG)	06/27/73-06/27/73	0	1	
GRSM0097	No	80111	NITROGEN, TOTAL IN DRIED MATERIAL (MG/KG)	06/27/73-06/27/73	0	1	
GRSM0010	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/31/77-01/04/82	4	30	
GRSM0091	Yes	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/03/77-03/10/78	0	2	
GRSM0182	Yes	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/25/65-08/24/94	29	68	S
GRSM0184	Yes	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/73-05/11/93	19	150	
GRSM0010	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	03/31/77-01/04/82	4	30	
GRSM0182	Yes	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	03/25/65-09/16/82	17	33	
GRSM0184	Yes	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/11/73-09/08/82	8	101	
GRSM0258	No	81253	BOD, 31 DAY, 20 DEG C MG/L	05/12/83-05/12/83	0	1	
GRSM0193	No	81254	BOD, 32 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	81254	BOD, 32 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0258	No	81255	BOD, 33 DAY, 20 DEG C MG/L	05/12/83-05/12/83	0	1	
GRSM0193	No	81256	BOD, 34 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	81256	BOD, 34 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0193	No	81257	BOD, 36 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	81257	BOD, 36 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0258	No	81257	BOD, 36 DAY, 20 DEG C MG/L	09/06/83-09/06/83	0	1	
GRSM0258	No	81259	BOD, 38 DAY, 20 DEG C MG/L	05/12/83-05/12/83	0	1	
GRSM0193	No	81260	BOD, 39 DAY, 20 DEG C MG/L	05/11/83-05/11/83	0	3	
GRSM0200	No	81260	BOD, 39 DAY, 20 DEG C MG/L	05/11/83-05/11/83	0	3	
GRSM0193	No	81261	BOD, 41 DAY, 20 DEG C MG/L	05/11/83-05/11/83	0	3	
GRSM0200	No	81261	BOD, 41 DAY, 20 DEG C MG/L	05/11/83-05/11/83	0	3	
GRSM0193	No	81262	BOD, 43 DAY, 20 DEG C MG/L	05/11/83-05/11/83	0	3	
GRSM0200	No	81262	BOD, 43 DAY, 20 DEG C MG/L	05/11/83-05/11/83	0	3	
GRSM0258	No	81264	BOD, 45 DAY, 20 DEG C MG/L	05/12/83-05/12/83	0	1	
GRSM0193	No	81265	BOD, 46 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	81265	BOD, 46 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0258	No	81266	BOD, 47 DAY, 20 DEG C MG/L	05/12/83-09/06/83	0	2	
GRSM0193	No	81267	BOD, 48 DAY, 20 DEG C MG/L	05/11/83-05/11/83	0	3	
GRSM0200	No	81267	BOD, 48 DAY, 20 DEG C MG/L	05/11/83-05/11/83	0	3	
GRSM0200	No	81268	BOD, 51 DAY, 20 DEG C MG/L	05/11/83-05/11/83	0	2	
GRSM0258	No	81268	BOD, 51 DAY, 20 DEG C MG/L	09/06/83-09/06/83	0	1	
GRSM0258	No	81269	BOD, 52 DAY, 20 DEG C MG/L	05/12/83-05/12/83	0	1	
GRSM0193	No	81270	BOD, 53 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	81270	BOD, 53 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0258	No	81270	BOD, 53 DAY, 20 DEG C MG/L	05/12/83-05/12/83	0	1	
GRSM0258	No	81271	BOD, 54 DAY, 20 DEG C MG/L	09/06/83-09/06/83	0	1	
GRSM0193	No	81272	BOD, 55 DAY, 20 DEG C MG/L	05/11/83-05/11/83	0	2	
GRSM0200	No	81272	BOD, 55 DAY, 20 DEG C MG/L	05/11/83-05/11/83	0	3	
GRSM0193	No	81273	BOD, 57 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	81273	BOD, 57 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	5	
GRSM0200	No	81274	BOD, 58 DAY, 20 DEG C MG/L	08/31/83-08/31/83	0	1	
GRSM0258	No	81275	BOD, 59 DAY, 20 DEG C MG/L	05/12/83-09/06/83	0	2	

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Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0193	No	81276	BOD, 60 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0200	No	81276	BOD, 60 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6	
GRSM0258	No	81276	BOD, 60 DAY, 20 DEG C MG/L	05/12/83-05/12/83	0	1	
GRSM0188	Yes	81312	POLYCHLORINATEDBIPHENYLS FISH TISSUE WET WGT MG/KG	10/17/84-10/17/84	0	1	
GRSM0188	Yes	81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	10/17/84-10/17/84	0	1	
GRSM0005	No	81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	12/01/92-11/16/93	0	2	
GRSM0020	Yes	81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	11/17/93-11/17/93	0	1	
GRSM0069	Yes	81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	12/01/92-11/18/93	0	2	
GRSM0188	Yes	81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	10/17/84-10/17/84	0	1	
GRSM0055	No	81647	REFERENCE POINT READING(LINEAR FEET)	10/17/78-10/17/78	0	1	
GRSM0256	No	81647	REFERENCE POINT READING(LINEAR FEET)	10/23/78-10/21/92	13	96	
GRSM0188	Yes	81652	TREFLAN IN FISH TISSUE WET WEIGHT MG/KG	10/17/84-10/17/84	0	1	
GRSM0055	No	81656	MAGNESIUM IN FISH TISSUE WET WEIGHT MG/KG	02/22/82-02/22/82	0	2	
GRSM0256	No	81656	MAGNESIUM IN FISH TISSUE WET WEIGHT MG/KG	02/23/82-02/23/82	0	2	
GRSM0055	No	81666	ALUMINUM IN FISH TISSUE WET WEIGHT MG/KG	02/22/82-02/22/82	0	2	
GRSM0256	No	81666	ALUMINUM IN FISH TISSUE WET WEIGHT MG/KG	02/23/82-02/23/82	0	2	
GRSM0188	Yes	81807	DURSBAN IN FISH TISSUE WET WEIGHT MG/KG	10/17/84-10/17/84	0	1	
GRSM0188	Yes	81823	PENTACHLOROANISOLE(PCA)INFISH TISSUE WET WGT MG/KG	10/17/84-10/17/84	0	1	
GRSM0184	Yes	81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	10/15/80-09/08/82	1	2	
GRSM0104	No	81900	SEDIMENT CORE SAMPLE,UPPER DEPTH,REPORT IN INCHES	10/06/86-10/06/86	0	2	
GRSM0104	No	81901	SEDIMENT CORE SAMPLE, LOWER DEPTH,REPORT IN INCHES	10/06/86-10/06/86	0	2	
GRSM0005	No	82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	09/23/87-11/25/88	1	2	
GRSM0035	Yes	82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	09/23/87-11/25/88	1	2	
GRSM0188	Yes	82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	10/17/84-10/17/84	0	1	
GRSM0050	Yes	82047	DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	11/20/84-11/20/84	0	1	
GRSM0052	No	82047	DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	11/20/84-11/20/84	0	1	
GRSM0080	No	82047	DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	11/20/84-11/20/84	0	1	
GRSM0177	No	82047	DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	11/20/84-11/20/84	0	1	
GRSM0191	No	82047	DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	11/20/84-11/20/84	0	1	
GRSM0208	No	82047	DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	11/29/84-11/29/84	0	1	
GRSM0184	Yes	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	02/09/81-08/31/81	0	5	
GRSM0182	Yes	82073	STARTING TIME (BASED ON A 24 HOUR CLOCK)	12/30/93-12/30/93	0	1	
GRSM0003	No	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	04/19/94-10/19/94	0	7	
GRSM0020	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	04/19/94-10/19/94	0	7	
GRSM0069	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	04/18/94-10/20/94	0	7	
GRSM0050	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/20/84-11/20/84	0	1	
GRSM0052	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/20/84-11/20/84	0	1	
GRSM0071	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/25/85-07/11/85	0	4	
GRSM0080	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/20/84-11/20/84	0	1	
GRSM0081	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/25/85-07/08/85	0	4	
GRSM0086	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/20/85-07/03/85	0	4	
GRSM0095	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/03/85-07/03/85	0	1	
GRSM0099	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	04/22/85-07/16/85	0	2	
GRSM0100	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/08/85-07/08/85	0	1	
GRSM0106	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/25/85-07/16/85	0	4	
GRSM0114	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/15/93-06/15/94	0	7	
GRSM0117	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/15/93-06/15/94	0	7	
GRSM0118	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/16/93-06/15/94	0	6	
GRSM0119	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	12/15/93-06/15/94	0	6	
GRSM0121	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/15/93-06/15/94	0	8	
GRSM0122	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/15/93-04/13/94	0	6	
GRSM0127	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/16/93-06/16/94	0	3	
GRSM0128	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/15/93-06/16/94	0	9	
GRSM0130	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	01/24/94-06/15/94	0	4	
GRSM0131	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/15/93-06/16/94	0	7	
GRSM0133	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/16/93-06/16/94	0	7	
GRSM0152	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/10/85-07/10/85	0	1	
GRSM0177	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/20/84-11/20/84	0	1	
GRSM0190	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/27/85-07/10/85	0	4	
GRSM0191	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/20/84-11/20/84	0	1	
GRSM0194	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/25/85-07/08/85	0	4	
GRSM0195	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/16/85-07/16/85	0	1	
GRSM0206	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/08/85-07/08/85	0	1	
GRSM0208	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/29/84-11/29/84	0	1	
GRSM0213	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/28/85-07/16/85	0	4	
GRSM0237	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/28/85-07/10/85	0	4	
GRSM0255	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/07/85-07/07/85	0	1	
GRSM0259	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/24/85-07/07/85	0	4	
GRSM0184	Yes	82183	2,4-DP (DICHLORPROP) TOTAL UG/L	10/15/80-09/08/82	1	2	
GRSM0041	No	82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	10/18/82-10/18/82	0	1	
GRSM0061	Yes	82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	10/19/82-10/19/82	0	1	
GRSM0072	Yes	82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	12/13/83-05/08/85	1	24	

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

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRSM0077	No	82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	10/18/82-10/18/82	0	1	
GRSM0229	Yes	82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	12/13/83-05/15/85	1	51	
GRSM0112	No	82381	PRECIPITATION, TOTAL IN INCHES PER STORM	11/30/81-03/16/82	0	6	
GRSM0256	No	82547	CHLOROPHYLL A,PERIPHYTON,FLUOROMETRIC MG/M2	06/23/81-06/23/81	0	2	
GRSM0071	Yes	83509	STREAM, WIDTH METER	03/25/85-07/11/85	0	4	
GRSM0081	Yes	83509	STREAM, WIDTH METER	03/25/85-07/08/85	0	4	
GRSM0086	Yes	83509	STREAM, WIDTH METER	03/20/85-07/03/85	0	4	
GRSM0095	Yes	83509	STREAM, WIDTH METER	07/03/85-07/03/85	0	1	
GRSM0099	No	83509	STREAM, WIDTH METER	04/22/85-07/16/85	0	2	
GRSM0100	Yes	83509	STREAM, WIDTH METER	07/08/85-07/08/85	0	1	
GRSM0106	No	83509	STREAM, WIDTH METER	03/25/85-07/16/85	0	4	
GRSM0152	Yes	83509	STREAM, WIDTH METER	07/10/85-07/10/85	0	1	
GRSM0190	Yes	83509	STREAM, WIDTH METER	03/27/85-07/10/85	0	4	
GRSM0194	Yes	83509	STREAM, WIDTH METER	03/25/85-07/08/85	0	4	
GRSM0195	Yes	83509	STREAM, WIDTH METER	07/16/85-07/16/85	0	1	
GRSM0206	Yes	83509	STREAM, WIDTH METER	07/08/85-07/08/85	0	1	
GRSM0213	Yes	83509	STREAM, WIDTH METER	03/28/85-07/16/85	0	4	
GRSM0237	Yes	83509	STREAM, WIDTH METER	03/28/85-07/10/85	0	4	
GRSM0255	Yes	83509	STREAM, WIDTH METER	07/07/85-07/07/85	0	1	
GRSM0259	No	83509	STREAM, WIDTH METER	03/24/85-07/07/85	0	4	
GRSM0011	No	85001	BOD, 5 DAY LBS/DAY	07/29/68-12/08/70	2	5	
GRSM0070	No	85001	BOD, 5 DAY LBS/DAY	07/29/68-06/18/70	1	4	
GRSM0073	No	85001	BOD, 5 DAY LBS/DAY	07/29/68-06/18/70	1	4	
GRSM0005	No	85664	WEIGHT, WET, OF FISH LIVER GRAMS	12/01/92-11/16/93	0	15	
GRSM0020	Yes	85664	WEIGHT, WET, OF FISH LIVER GRAMS	11/17/93-11/17/93	0	10	
GRSM0069	Yes	85664	WEIGHT, WET, OF FISH LIVER GRAMS	12/01/92-11/18/93	0	14	
GRSM0005	No	85665	WEIGHT, WET, FISH, RIGHT FILLET GRAMS	12/01/92-11/16/93	0	15	
GRSM0020	Yes	85665	WEIGHT, WET, FISH, RIGHT FILLET GRAMS	11/17/93-11/17/93	0	10	
GRSM0069	Yes	85665	WEIGHT, WET, FISH, RIGHT FILLET GRAMS	12/01/92-11/18/93	0	14	
GRSM0005	No	85666	WEIGHT, WET, FISH, LEFT FILLET GRAMS	12/01/92-11/16/93	0	15	
GRSM0020	Yes	85666	WEIGHT, WET, FISH, LEFT FILLET GRAMS	11/17/93-11/17/93	0	10	
GRSM0069	Yes	85666	WEIGHT, WET, FISH, LEFT FILLET GRAMS	12/01/92-11/18/93	0	14	
GRSM0188	Yes	85675	TRICHLOROBENZENE,1,3,5- TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1	
GRSM0188	Yes	85676	TRICHLOROBENZENE,1,2,3- TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1	
GRSM0188	Yes	85677	TETRACHLOROBENZENE,1,2,4,5- TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1	
GRSM0188	Yes	85678	TETRACHLOROBENZENE,1,2,3,5- TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1	
GRSM0188	Yes	85679	PENTACHLOROBENZENE TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1	
GRSM0188	Yes	85680	DIPHENYL DISULFIDE TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1	
GRSM0188	Yes	85681	OCTACHLOROSTYRENE TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1	
GRSM0188	Yes	85682	NITROFEN TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1	
GRSM0188	Yes	85683	PERTHANE TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1	
GRSM0188	Yes	85684	DICOFOL (KELTHANE) TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1	

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

Station-By-Station Results

Station Inventory for Station: GRSM0001

NPS Station ID: GRSM0001 LAT/LON: 35.400004/ -83.625005 Agency: 11EPALES Date Created: / /
Location: PANTHER CREEK FIPS State/County: 37000 NORTH CAROLINA/
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 3704E1 /LS3704E1
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 06010202 Depth of Water: 0 Aquifer:
Major Basin: T/FONTANA LAKE Elevation: 0 Water Body Id:
Minor Basin: HWY 28 BRDG 6.5 MI W JCT WITH HWY 19 ECO Region:
RF1 Index: 06010202003 RF1 Mile Point: 27.970 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010202041000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.04 On/Off RF3:
Description:
AT ST HWY 28 BRDG ABOUT 6.5 MI W OF JCT WITH US HWY 19

Parameter Inventory for Station: GRSM0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	12	0.028	0.052	0.198	0.015	0.003	0.055	0.015	0.017	0.067	0.175
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	12 ##	0.001	0.001	0.002	0.001	0.	0.001	0.001	0.001	0.001	0.002
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	12	0.057	0.068	0.138	0.017	0.001	0.037	0.022	0.041	0.087	0.136
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	12	0.265	0.208	0.44	0.05	0.019	0.139	0.05	0.05	0.3	0.407
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	12	0.055	0.067	0.14	0.02	0.001	0.038	0.023	0.043	0.09	0.137
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/24/74	12	0.015	0.015	0.025	0.01	0.	0.005	0.01	0.01	0.02	0.024
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	12	0.007	0.006	0.012	0.003	0.	0.004	0.003	0.003	0.008	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 time series plot

EPA Water Quality Criteria Analysis for Station: GRSM0001

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	12	0	0.00	8	0	0.00	4	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	12	0	0.00	8	0	0.00	4	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	12	0	0.00	8	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: GRSM0002

NPS Station ID: GRSM0002
LAT/LON: 35.400004/ -83.675004
Agency: 11EPALES
Date Created: / /
Location: STECOAH CREEK
FIPS State/County: 37000 NORTH CAROLINA/
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 3704F1 /LS3704F1
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010202
Depth of Water: 0
Aquifer:
Major Basin: T/FONTANA LAKE
Elevation: 0
Water Body Id:
Minor Basin: RD 1236 BRDG 3 MI NNE OF STECOAH
ECO Region:
RF1 Index: 06010202003
RF1 Mile Point: 15.970
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010202000100.54
RF3 Mile Point: 0.54
Distance from RF3: 0.03
On/Off RF3:
Description:
AT SECONDARY RD #1236 BRDG ABOUT 3 MI NNE OF STECOAH

Parameter Inventory for Station: GRSM0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.024	0.049	0.15	0.015	0.002	0.046	0.016	0.022	0.07	0.145
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	13 ##	0.001	0.001	0.002	0.001	0.	0.	0.001	0.001	0.001	0.002
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.23	0.233	0.39	0.14	0.005	0.072	0.144	0.164	0.27	0.366
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	13	0.33	0.659	2.52	0.1	0.575	0.758	0.1	0.175	0.8	2.304
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	13	0.23	0.235	0.39	0.14	0.005	0.072	0.144	0.17	0.275	0.366
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/24/74	13	0.03	0.034	0.065	0.02	0.	0.013	0.02	0.025	0.045	0.057
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	13	0.011	0.011	0.015	0.006	0.	0.002	0.007	0.01	0.012	0.014

** - Less 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: GRSM0002

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	13	0	0.00	8	0	0.00	5	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	13	0	0.00	8	0	0.00	5	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	13	0	0.00	8	0	0.00	5	0	0.00						

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

Station Inventory for Station: GRSM0003

NPS Station ID: GRSM0003 LAT/LON: 35.410003/ -83.556671 Agency: 131TVAC Date Created: 05/01/93
Location: FONTANA RESERVOIR - ABOVE GREASY BRANCH FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/FISH/STREAM STORET Station ID(s): 370177 /LTRM 081.50
RMI-Indexes: 1021500 007720 00920 8540 Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 601.10 081.50
HUC: 06010202 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 81.5 ECO Region:
RF1 Index: 06010202 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010201002800.00 RF3 Mile Point: 2.05 Distance from RF3: 0.10 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/22/93-10/19/94	245	19.2	18.596	29.8	8.4	28.671	5.355	11.	14.	22.55	26.02
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/24/93-09/24/93	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/19/93-10/19/94	12	3.26	3.243	4.1	1.1	0.751	0.867	1.49	2.95	4.05	4.1
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/22/93-10/19/94	245	26.	26.869	39.	20.	18.589	4.312	21.6	23.5	30.	33.
00300	OXYGEN, DISSOLVED MG/L	04/22/93-10/19/94	245	7.3	7.469	11.4	2.6	3.188	1.785	5.3	6.3	8.6	9.94
00400	PH (STANDARD UNITS)	04/22/93-10/19/94	245	6.7	6.865	9.	6.	0.397	0.63	6.3	6.5	7.	7.904
00400	CONVERTED PH (STANDARD UNITS)	04/22/93-10/19/94	245	6.7	6.601	9.	6.	0.467	0.683	6.3	6.5	7.	7.904
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/22/93-10/19/94	245	0.2	0.251	1.	0.001	0.048	0.218	0.012	0.1	0.316	0.501
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/22/93-08/18/94	4	0.11	0.105	0.16	0.04	0.003	0.052	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/22/93-08/18/94	5 ##	0.005	0.033	0.1	0.005	0.002	0.042	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/22/93-08/18/94	5	0.1	0.066	0.11	0.005	0.003	0.056	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/22/93-08/18/94	4	0.01	0.011	0.02	0.003	0.	0.007	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/22/93-08/18/94	4	0.005	0.005	0.008	0.001	0.	0.003	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/22/93-08/18/94	4	1.15	1.125	1.4	0.8	0.076	0.275	**	**	**	**
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/16/93-08/16/93	1	1500.	1500.	1500.	1500.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/16/93-08/16/93	1	6900.	6900.	6900.	6900.	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	1	45.	45.	45.	45.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/16/93-08/16/93	1	38.	38.	38.	38.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/16/93-08/16/93	1	22.	22.	22.	22.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/16/93-08/16/93	1	790.	790.	790.	790.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	1	31.	31.	31.	31.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/16/93-08/16/93	1	140.	140.	140.	140.	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/16/93-08/16/93	1	4800.	4800.	4800.	4800.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/16/93-08/16/93	1	47000.	47000.	47000.	47000.	0.	0.	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/22/93-10/19/94	14	3.	3.143	7.	1.	2.44	1.562	1.5	2.	4.	6.
32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	04/22/93-10/19/94	14 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	04/22/93-10/19/94	14 ##	0.5	0.643	1.	0.5	0.055	0.234	0.5	0.5	1.	1.
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/22/93-10/19/94	14 ##	0.5	0.714	1.	0.5	0.066	0.257	0.5	0.5	1.	1.
34257	B-BHC-BETA DRY WGTBOTUG/KG	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34354	ENDOSULFAN SULFATE DRY WGTBOTUG/KG	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34364	ENDOSULFAN, ALPHA DRY WGTBOTUG/KG	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34369	ENDRIN ALDEHYDE DRY WGTBOTUG/KG	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRSM0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/16/93-08/16/93	1 ##	250.	250.	250.	250.	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	08/16/93-08/16/93	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/16/93-08/16/93	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/16/93-08/16/93	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	08/16/93-08/16/93	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	08/16/93-08/16/93	1	41.3	41.3	41.3	41.3	0.	0.	**	**	**	**
70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	08/16/93-08/16/93	1	11.6	11.6	11.6	11.6	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/16/93-08/16/93	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	04/19/94-10/19/94	7	2.2	4.114	10.3	1.4	13.668	3.697	**	**	**	**

** - 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: GRSM0003

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	245	9	0.04	27	0	0.00	218	9	0.04						
00400	PH	Other-Hi Lim.	9.	245	1	0.00	27	0	0.00	218	1	0.00						
		Other-Lo Lim.	6.5	245	87	0.36	27	9	0.33	218	78	0.36						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	5	0	0.00				5	0	0.00						
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	7	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: GRSM0004

NPS Station ID: GRSM0004 | LAT/LON: 35.413060/ -83.558060 | Agency: 11EPALES | Date Created: / /
Location: FONTANA LAKE | FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE | STORET Station ID(s): 370405
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 06010202 | Depth of Water: 159 | Aquifer:
Major Basin: | Elevation: 0 | Water Body Id:
Minor Basin: | ECO Region:
RF1 Index: 06010202006 | RF1 Mile Point: 4.910 | Distance from RF1: 0.00 | On/Off RF1: OFF
RF3 Index: 06010203000100.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.04 | On/Off RF3:
Description:
JUST DOWNLAKE FROM MOUTH OF THE STEVENSON RIVER ENTERING FROM THE EAST, LOCATED IN OLD RIVER CHANNEL NORTHEAST OF LARGE IRREGULAR-SHAPED ISLAND ABOUT 250 YDS AWAY. MILE 3 3/4 TUCKASEGEE RIVER. COMMENTS: 6-3, ULE 16, MUCH DEBRIS ON SURFACE (STICKS, PINE NEEDLES, ETC.); DOUBLE HEAVY TURBIDITY PEAKS ON PROFILE; TEMPERATURE STEEP SLOPE

Parameter Inventory for Station: GRSM0004

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/03/73-10/26/73	23	20.5	19.374	27.4	9.8	22.417	4.735	11.14	16.6	22.3	26.12
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	06/03/73-10/26/73	23	92.	78.522	98.	6.	843.806	29.048	20.4	84.	95.	97.6
00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/03/73-10/26/73	3	84.	90.	156.	30.	3996.	63.214	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/21/73-10/26/73	14	24.5	25.071	28.	22.	2.841	1.685	23.	24.	27.	27.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/03/73-06/03/73	9	20.	19.444	21.	17.	2.028	1.424	17.	18.	20.5	21.
00300	OXYGEN, DISSOLVED MG/L	06/03/73-10/26/73	20	6.9	7.05	10.	2.2	2.922	1.709	5.8	6.	8.15	9.
00400	PH (STANDARD UNITS)	06/03/73-10/26/73	23	6.6	6.743	8.2	5.4	0.584	0.764	5.68	6.2	7.3	7.94
00400	CONVERTED PH (STANDARD UNITS)	06/03/73-10/26/73	23	6.6	6.213	8.2	5.4	0.879	0.937	5.68	6.2	7.3	7.94
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/03/73-10/26/73	23	0.251	0.613	3.981	0.006	0.965	0.982	0.013	0.05	0.631	2.141
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/03/73-10/26/73	23 ##	5.	8.261	16.	5.	18.565	4.309	5.	5.	13.	14.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/03/73-10/26/73	23	0.12	0.12	0.2	0.06	0.002	0.039	0.064	0.08	0.15	0.17
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/03/73-10/26/73	23	0.4	0.383	1.	0.1	0.038	0.195	0.1	0.3	0.5	0.56
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/03/73-10/26/73	23	0.21	0.23	0.41	0.08	0.009	0.093	0.12	0.17	0.29	0.406
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/03/73-10/26/73	23	0.017	0.029	0.082	0.007	0.001	0.024	0.01	0.011	0.034	0.078
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/03/73-10/26/73	23	0.007	0.008	0.016	0.004	0.	0.003	0.005	0.006	0.009	0.012
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	06/03/73-10/26/73	3	3.6	4.1	6.	2.7	2.91	1.706	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	06/03/73-10/26/73	3	130.	133.	159.	110.	607.	24.637	**	**	**	**

** - Less 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: GRSM0004

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	20	1	0.05	5	0	0.00	15	1	0.07						
00400	PH	Other-Hi Lim.	9.	23	0	0.00	6	0	0.00	17	0	0.00						
		Other-Lo Lim.	6.5	23	10	0.43	6	4	0.67	17	6	0.35						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	23	0	0.00	6	0	0.00	17	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: GRSM0005

NPS Station ID: GRSM0005
LAT/LON: 35.413616/ -83.560559
Agency: 131TVAC
Date Created: / /
Location: FONTANA RESERVOIR
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/FISH/STREAM
STORET Station ID(s): 360230 /3959
RMI-Indexes: 1021500 007720 00920 8540
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 601.10 081.00
HUC: 06010202
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 81.0
ECO Region:
RF1 Index: 06010202
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010203000901.21
RF3 Mile Point: 1.21
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/29/70-09/29/70	8	23.9	23.3	24.4	21.1	1.757	1.326	**	**	**	**
00019	SAMPLE WEIGHT IN GRAMS	09/23/87-11/16/93	25	716.	828.12	2148.	296.	235954.277	485.751	359.8	439.	996.	1702.8
00039	SAMPLE LENGTH IN MILLIMETERS	09/23/87-11/16/93	25	406.	438.68	651.	300.	7990.893	89.392	344.2	365.	490.	594.
00300	OXYGEN, DISSOLVED MG/L	09/29/70-09/29/70	5	5.7	5.72	6.4	5.2	0.197	0.444	**	**	**	**
00326	BOD, 28 DAY, 20 DEG C MG.L	09/29/70-09/29/70	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	09/29/70-09/29/70	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/29/70-09/29/70	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/29/70-09/29/70	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/29/70-09/29/70	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
85664	WEIGHT, WET, OF FISH LIVER GRAMS	12/01/92-11/16/93	15	12.	13.533	30.	2.	72.267	8.501	3.2	8.	20.	28.8
85665	WEIGHT, WET, FISH, RIGHT FILLET GRAMS	12/01/92-11/16/93	15	205.	210.267	341.	87.	4847.495	69.624	113.4	148.	258.	314.6
85666	WEIGHT, WET, FISH, LEFT FILLET GRAMS	12/01/92-11/16/93	15	200.	199.6	343.	87.	4850.829	69.648	96.6	162.	250.	316.

** - Less 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: GRSM0005

				Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	5	0	0.00				5	0	0.00						
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00				1	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	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: 10/01 to 3/31 - Station GRSM0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00019	SAMPLE WEIGHT IN GRAMS	09/23/87-11/16/93	20	779.	782.7	1734.	346.	136752.432	369.801	372.1	434.	963.75	1380.6
00039	SAMPLE LENGTH IN MILLIMETERS	09/23/87-11/16/93	20	405.	428.3	603.	300.	5951.379	77.145	340.7	359.75	479.	525.6

** - 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: 4/01 to 9/30 - Station GRSM0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00019	SAMPLE WEIGHT IN GRAMS	09/23/87-11/16/93	5	471.	1009.8	2148.	296.	714577.2	845.327	**	**	**	**
00039	SAMPLE LENGTH IN MILLIMETERS	09/23/87-11/16/93	5	407.	480.2	651.	359.	16982.7	130.318	**	**	**	**

** - Less 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: GRSM0006

NPS Station ID: GRSM0006
LAT/LON: 35.420559/ -83.574449
Agency: 131TVAC
Date Created: 05/05/79
Location: FONTANA RESERVOIR
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370005
RMI-Indexes: 1021500 007720 00920 8540
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 601.10 080.00
HUC: 06010202
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 80.0
ECO Region:
RF1 Index: 06010202003
RF1 Mile Point: 38.760
Distance from RF1: 0.80
On/Off RF1: OFF
RF3 Index: 06010203004102.44
RF3 Mile Point: 3.29
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/25/79-09/26/79	101	18.	17.494	26.8	8.	27.762	5.269	10.52	12.6	22.2	23.96
00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/25/79-09/26/79	12 ##	1.2	1.575	3.9	0.5	1.549	1.245	0.5	0.5	2.625	3.69
00080	COLOR (PLATINUM-COBALT UNITS)	04/25/79-09/26/79	4	5.	5.25	8.	3.	4.25	2.062	**	**	**	**
00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	04/25/79-04/25/79	26	587.5	566.731	615.	470.	2095.885	45.781	477.	552.5	600.	610.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/13/79-09/26/79	75	27.	25.12	30.	10.	36.431	6.036	18.	20.	30.	30.
00300	OXYGEN, DISSOLVED MG/L	04/25/79-09/26/79	101	8.8	8.094	10.4	2.7	2.747	1.657	5.72	7.	9.4	9.8
00310	BOD, 5 DAY, 20 DEG C MG/L	04/25/79-09/26/79	8 ##	0.75	0.788	1.2	0.5	0.098	0.314	**	**	**	**
00400	PH (STANDARD UNITS)	04/25/79-09/26/79	101	6.4	6.682	8.6	5.9	0.56	0.749	6.1	6.2	6.7	8.1
00400	CONVERTED PH (STANDARD UNITS)	04/25/79-09/26/79	101	6.4	6.364	8.6	5.9	0.663	0.814	6.1	6.2	6.7	8.1
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/25/79-09/26/79	101	0.398	0.433	1.259	0.003	0.102	0.32	0.008	0.2	0.631	0.794
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/25/79-09/26/79	20	6.	5.8	7.	4.	1.116	1.056	4.	5.	7.	7.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/25/79-09/26/79	19	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/25/79-09/26/79	12 ##	0.5	0.958	3.	0.5	0.612	0.782	0.5	0.5	1.	2.7
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/25/79-09/26/79	20	0.06	0.063	0.13	0.01	0.002	0.042	0.01	0.02	0.103	0.129
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/25/79-09/26/79	20	0.04	0.038	0.12	0.005	0.001	0.026	0.006	0.02	0.05	0.06
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/25/79-09/26/79	20	0.04	0.051	0.13	0.005	0.002	0.042	0.005	0.005	0.08	0.12
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/25/79-09/26/79	20	0.01	0.011	0.02	0.005	0.	0.004	0.006	0.01	0.01	0.02
00677	PHOSPHORUS,HYDROLYZABLE + ORTHO,DIS,AUTOANALYZER	04/25/79-09/26/79	15 ##	0.005	0.005	0.01	0.005	0.	0.001	0.005	0.005	0.005	0.007
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/25/79-09/26/79	12	20.	21.667	30.	20.	15.152	3.892	20.	20.	20.	30.

** - Less 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: GRSM0006

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	12	0	0.00				12	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	101	2	0.02				101	2	0.02						
00400	PH	Other-Hi Lim.	9.	101	0	0.00				101	0	0.00						
		Other-Lo Lim.	6.5	101	71	0.70				101	71	0.70						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	20	0	0.00				20	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: GRSM0007

NPS Station ID: GRSM0007
LAT/LON: 35.420837/ -83.572226
Agency: 21NC01WQ
Date Created: 02/24/76
Location: FONTANA LAKE NR ALMONDS NC INACT-790713
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G3840000 /LTN014B
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010202
Depth of Water: 999
Aquifer:
Major Basin: SE
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER
ECO Region:
RF1 Index: 06010202012
RF1 Mile Point: 1.710
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010202000100.56
RF3 Mile Point: 0.56
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0007

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-07/31/79	16	27.	25.456	29.	8.3	24.237	4.923	17.89	25.	28.	29.
00023	SAMPLE WEIGHT IN POUNDS	07/16/74-07/29/75	2	26.	26.	27.	25.	2.	1.414	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/13/77-07/25/78	6	4.8	8.2	31.	1.6	126.924	11.266	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-07/31/79	15	2.	5.653	50.	1.2	154.089	12.413	1.23	1.5	3.	25.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-07/31/79	13	25.	26.308	30.	22.	12.564	3.545	22.	22.5	30.	30.
00300	OXYGEN, DISSOLVED MG/L	07/16/74-07/31/79	16	8.25	8.356	9.6	7.	0.417	0.646	7.42	8.025	8.8	9.25
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/16/74-07/20/77	4	101.	96.5	104.	80.	129.	11.358	**	**	**	**
00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	07/16/74-07/29/75	2	26.	26.	30.	22.	32.	5.657	**	**	**	**
00400	PH (STANDARD UNITS)	07/29/75-07/31/79	16	8.35	7.888	9.2	1.	3.71	1.926	5.41	7.725	8.875	9.06
00400	CONVERTED PH (STANDARD UNITS)	07/29/75-07/31/79	16	8.325	2.204	9.2	1.	38.165	6.178	5.41	7.725	8.875	9.06
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-07/31/79	16	0.005	6250.01	100000.	0.001	624999871.429	24999.997	0.001	0.001	0.019	30000.035
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/29/75-07/31/79	15	8.	8.333	10.	7.	0.524	0.724	7.6	8.	9.	9.4
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/75-07/31/79	16	1.	1.188	8.	0.	4.029	2.007	0.	0.	1.	4.5
00500	RESIDUE, TOTAL (MG/L)	07/31/78-07/31/78	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/29/75-07/29/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	2 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/31/78-07/31/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	07/29/75-07/29/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-07/31/79	8 ##	0.025	0.042	0.16	0.025	0.002	0.048	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-07/31/79	8	0.2	0.238	0.6	0.1	0.023	0.151	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-07/31/79	8 ##	0.025	0.048	0.21	0.025	0.004	0.065	**	**	**	**
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/29/75	2	8.3	8.3	8.4	8.2	0.02	0.141	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/29/75-07/29/75	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-07/31/79	8 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	07/16/74-07/29/75	2 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00740	SULFITE (MG/L AS SO3)	07/29/75-07/29/75	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/29/75	2	165.	165.	270.	60.	22050.	148.492	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	07/07/77-07/31/79	6 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/29/75-07/31/79	7 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/29/75	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-07/31/79	7 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	07/29/75-07/31/79	7 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/29/75	2 ##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/16/74-07/31/79	8 ##	20.	46.25	110.	20.	1655.357	40.686	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	07/29/75-07/31/79	7 ##	50.	75.714	130.	50.	1128.571	33.594	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	07/16/74-07/31/79	8 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/29/75-07/31/79	7 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	1 ##	50.	50.	50.	50.	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: GRSM0007

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/29/75	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/16/74-07/31/79	8 ##	25.	56.875	180.	25.	3049.554	55.223	**	**	**	**
01132	LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/29/75	2	15.	15.	20.	10.	50.	7.071	**	**	**	**
31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	1	8.	8.	8.	8.	0.	0.	**	**	**	**
31508	LOG COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	1	0.903	0.903	0.903	0.903	0.	0.	**	**	**	**
31508	GM COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	GEOMETRIC MEAN =			8.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-07/31/79	17 ##	2.5	2.735	5.	0.5	4.316	2.078	0.5	0.5	5.	5.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-07/31/79	17 ##	0.398	0.252	0.699	-0.301	0.21	0.458	-0.301	-0.301	0.699	0.699
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.786								
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	07/02/79-07/02/79	1	34.	34.	34.	34.	0.	0.	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-07/02/79	3	1.	10.333	30.	0.	290.333	17.039	**	**	**	**
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-07/02/79	3	98.	69.	104.	5.	3081.	55.507	**	**	**	**
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	7 ##	2.5	7.571	38.	2.5	180.036	13.418	**	**	**	**
50086	SETTLEABLE MATTER (ML/L/HR)	07/25/78-07/25/78	1	30.	30.	30.	30.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/74-07/29/75	2	50.	50.	50.	50.	0.	0.	**	**	**	**
70305	SALINITY BASED ON CONDUCTIVITY	07/16/74-07/19/78	3	0.	0.267	0.8	0.	0.213	0.462	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-07/02/79	5 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	07/16/74-07/31/79	8 ##	0.25	0.344	1.	0.25	0.07	0.265	**	**	**	**

** - Less 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: GRSM0007

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	6	0	0.00				6	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	16	0	0.00				16	0	0.00						
00400	PH	Other-Hi Lim.	9.	16	3	0.19				16	3	0.19						
		Other-Lo Lim.	6.5	16	1	0.06				16	1	0.06						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	8	0	0.00				8	0	0.00						
00720	CYANIDE, TOTAL	Fresh Acute	0.022	2	0	0.00				2	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00				2	0	0.00						
		Drinking Water	50.	2	2	1.00				2	2	1.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	6	0	0.00				6	0	0.00						
		Drinking Water	50.	6	0	0.00				6	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	0 &	0	0.00												
		Drinking Water	5.	0 &	0	0.00												
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00				2	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	7	0	0.00				7	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00				2	0	0.00						
		Drinking Water	1300.	2	0	0.00				2	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	3 &	3	1.00				3	3	1.00						
		Drinking Water	1300.	8	0	0.00				8	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	8	0	0.00				8	0	0.00						
		Drinking Water	5.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	50.	2	0	0.00				2	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	8	1	0.13				8	1	0.13						
31508	COLIFORM, TOTAL, MPN, COMP. TEST, TUBE C	Other-Hi Lim.	1000.	1	0	0.00				1	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	17	0	0.00				17	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	8	0	0.00				8	0	0.00						
		Drinking Water	2.	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: GRSM0008

NPS Station ID: GRSM0008
Location: FONTANA RESERVOIR
Station Type: /TYPA/AMBNT/STREAM
RMI-Indexes: 1021500 007720 00920 8540
RMI-Miles: 0953.80 0046.50 601.10 071.00
HUC: 06010202
Major Basin: TENNESSEE RIVER BASIN
Minor Basin: LITTLE TENNESSEE RIVER 71.0
RF1 Index: 06010202
RF3 Index: 06010204047200.00
Description:

LAT/LON: 35.427503/ -83.648060
Depth of Water: 0
Elevation: 0
RF1 Mile Point: 0.000
RF3 Mile Point: 0.99

Agency: 131TVAC
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
STORET Station ID(s): 360229 /3953
Within Park Boundary: Yes
Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 7.60
Distance from RF3: 0.28

Date Created: / /
On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: GRSM0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/29/70-09/26/79	171	15.	15.381	26.3	5.7	31.77	5.636	7.52	11.	20.	23.08
00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/25/79-09/26/79	12	1.55	1.667	3.6	0.5	1.088	1.043	0.5	0.625	2.525	3.33
00080	COLOR (PLATINUM-COBALT UNITS)	04/25/79-09/26/79	4	5.	5.25	7.	4.	1.583	1.258	**	**	**	**
00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	04/25/79-04/25/79	40	610.	604.875	630.	555.	541.651	23.273	560.5	590.	625.	630.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/13/79-09/26/79	103	25.	22.417	40.	10.	53.324	7.302	10.	15.	30.	30.
00300	OXYGEN, DISSOLVED MG/L	09/29/70-09/26/79	156	8.15	7.374	10.4	0.1	7.55	2.748	3.21	5.625	9.6	10.
00310	BOD, 5 DAY, 20 DEG C MG/L	04/25/79-09/26/79	8 ##	0.8	0.838	1.3	0.5	0.134	0.366	**	**	**	**
00326	BOD, 28 DAY, 20 DEG C MG.L	09/29/70-09/29/70	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	04/25/79-09/26/79	144	6.25	6.412	8.3	5.8	0.373	0.611	5.9	6.	6.4	7.7
00400	CONVERTED PH (STANDARD UNITS)	04/25/79-09/26/79	144	6.247	6.207	8.3	5.8	0.416	0.645	5.9	6.	6.4	7.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/25/79-09/26/79	144	0.566	0.621	1.585	0.005	0.151	0.389	0.02	0.398	1.	1.259
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/25/79-09/26/79	20	5.	5.15	6.	4.	0.661	0.813	4.	4.25	6.	6.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/25/79-09/26/79	20	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/25/79-09/26/79	12	1.	1.542	4.	0.5	1.748	1.322	0.5	0.625	2.5	4.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	09/29/70-09/26/79	21	0.05	0.056	0.12	0.01	0.001	0.027	0.02	0.035	0.08	0.09
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/25/79-09/26/79	20	0.02	0.02	0.05	0.005	0.	0.013	0.005	0.01	0.028	0.04
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/29/70-09/29/70	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/29/70-09/29/70	1	0.42	0.42	0.42	0.42	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/25/79-09/26/79	20	0.105	0.082	0.26	0.005	0.006	0.074	0.005	0.005	0.138	0.16
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/29/70-09/26/79	21	0.01	0.008	0.01	0.003	0.	0.003	0.005	0.005	0.01	0.01
00677	PHOSPHORUS,HYDROLYZABLE + ORTHO,DIS,AUTOANALYZER	04/25/79-09/26/79	17 ##	0.005	0.005	0.01	0.005	0.	0.001	0.005	0.005	0.005	0.006
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/25/79-09/26/79	12	20.	25.	40.	10.	118.182	10.871	10.	20.	37.5	40.

** - Less 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: GRSM0008

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	12	0	0.00				12	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	156	19	0.12				156	19	0.12						
00400	PH	Other-Hi Lim.	9.	144	0	0.00				144	0	0.00						
		Other-Lo Lim.	6.5	144	119	0.83				144	119	0.83						
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00				1	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	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: GRSM0008

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	20	0	0.00				20	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: GRSM0009

NPS Station ID: GRSM0009
LAT/LON: 35.427781/ -83.447226
Agency: 21NC01WQ
Date Created: 02/24/76
Location: TUCKASEGEE RIVER AT BRYSON CITY
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): G8600000 /LTN029A /03513000
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010203
Depth of Water: 999
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE
ECO Region:
RF1 Index: 06010203008
RF1 Mile Point: 5.250
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010202000100.49
RF3 Mile Point: 0.49
Distance from RF3: 0.07
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	02/15/83-01/09/95	94	166.	165.713	275.	3.	9190.852	95.869	60.	75.	275.	275.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	230	13.	13.	26.	-1.	43.721	6.612	4.	8.	19.	21.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	168	1305.	1599.744	9330.	355.	1299007.174	1139.74	650.1	861.	1930.	2954.
00064	DEPTH OF STREAM, MEAN (FT)	02/15/83-01/09/95	93	3.	3.595	50.	2.	25.316	5.032	2.	2.	4.	5.
00065	STAGE, STREAM (FEET)	09/23/75-09/09/93	175	2.56	2.69	6.83	0.98	0.627	0.792	1.88	2.12	3.05	3.748
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	170	4.6	9.108	130.	0.5	336.044	18.332	1.72	2.8	7.	15.
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/77-07/18/78	2	17.5	17.5	20.	15.	12.5	3.536	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	137	26.	26.547	47.	5.	43.97	6.631	20.	23.	30.	35.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/18/74-02/14/90	61	22.	41.426	920.	4.	13336.182	115.482	15.4	20.	29.5	43.
00300p	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	231	9.7	10.074	16.8	6.5	2.701	1.643	8.3	8.7	11.2	12.2
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-09/05/85	83	92.	93.593	116.	80.	40.766	6.385	87.	89.4	97.	103.
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	156	0.6	0.726	2.8	0.1	0.15	0.388	0.3	0.5	0.9	1.2
00335	COD, .025N K2CR2O7 MG/L	05/10/81-11/20/84	18 ##	5.	8.194	56.	2.5	150.092	12.251	2.5	2.5	7.75	16.4
00340	COD, .25N K2CR2O7 MG/L	01/02/75-04/16/81	63 ##	5.	7.079	51.	5.	42.316	6.505	5.	5.	5.	12.5
00400p	PH (STANDARD UNITS)	08/13/74-01/09/95	210	6.8	6.829	8.65	5.2	0.189	0.435	6.4	6.7	7.	7.2
00400p	CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	210	6.8	6.542	8.65	5.2	0.272	0.521	6.4	6.7	7.	7.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	210	0.158	0.287	6.31	0.002	0.533	0.73	0.063	0.1	0.2	0.398
00403	PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	118	6.8	6.809	7.3	6.5	0.025	0.157	6.6	6.7	6.9	7.
00403	CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	118	6.8	6.782	7.3	6.5	0.026	0.16	6.6	6.7	6.9	7.
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	118	0.158	0.165	0.316	0.05	0.003	0.057	0.1	0.126	0.2	0.251
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	166	7.	7.342	13.	0.8	3.564	1.888	5.	6.	8.	10.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/13/74-01/11/90	52	0.	1.375	25.	0.	25.587	5.058	0.	0.	0.	4.35
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	08/28/80-09/08/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	132	8.	8.098	28.	2.	9.296	3.049	5.	6.	9.	10.7
00480	SALINITY - PARTS PER THOUSAND	12/21/89-12/21/89	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	181	42.	49.31	500.	0.025	2393.443	48.923	25.	32.	53.	65.8
00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/13/74-04/21/76	15	16.	21.473	99.	0.1	566.532	23.802	2.44	10.	21.	65.4
00510	RESIDUE, TOTAL FIXED (MG/L)	08/13/74-04/21/76	15	13.	34.88	284.	0.	5187.13	72.022	0.	1.	30.	161.6
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	196	9.	16.174	420.	0.025	1515.519	38.93	2.	4.	14.75	26.3
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/13/74-04/21/76	14	3.5	6.645	34.	0.025	78.068	8.836	0.513	1.75	9.	23.5
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	08/13/74-04/21/76	14	4.5	24.5	216.	0.	3427.346	58.544	0.	0.75	9.75	146.5
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	104 ##	0.025	0.035	0.25	0.01	0.001	0.033	0.02	0.025	0.03	0.05
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	104	0.2	0.19	0.8	0.05	0.017	0.13	0.05	0.1	0.2	0.3
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	103	0.16	0.19	1.8	0.025	0.037	0.193	0.09	0.12	0.21	0.272
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/24/75-04/21/76	9 ##	0.025	1.359	12.	0.025	15.922	3.99	0.025	0.025	0.043	12.
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	103	0.025	0.045	0.46	0.005	0.004	0.062	0.02	0.025	0.05	0.076
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/02/75-12/11/80	11 ##	5.	6.818	25.	5.	36.364	6.03	5.	5.	5.	21.
00745	SULFIDE, TOTAL (MG/L AS S)	12/08/75-12/08/75	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**

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Parameter Inventory for Station: GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/02/75-01/09/95	75	8.	13.147	410.	4.	2162.884	46.507	6.	6.	9.	11.
00916	CALCIUM, TOTAL (MG/L AS CA)	02/15/77-12/21/89	7	1.6	6.429	25.	1.2	79.379	8.909	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/08/75-12/21/89	11	0.8	240.309	600.	0.5	76656.895	276.87	0.5	0.5	510.	588.
00929	SODIUM, TOTAL (MG/L AS NA)	02/15/77-12/21/89	5	1.7	1.54	1.8	1.2	0.098	0.313	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/23/75-08/09/77	19	1.	2.184	11.	0.5	8.895	2.982	0.5	1.	1.	8.
00945	SULFATE, TOTAL (MG/L AS SO4)	09/23/75-08/09/77	18 ##	5.	4.583	5.	2.5	0.919	0.959	2.5	5.	5.	5.
00951	FLUORIDE, TOTAL (MG/L AS F)	09/23/75-08/09/77	18 ##	0.05	0.189	1.2	0.05	0.087	0.294	0.05	0.05	0.15	0.66
01002	ARSENIC, TOTAL (UG/L AS AS)	01/02/75-11/17/94	98 ##	5.	6.	30.	5.	14.082	3.753	5.	5.	5.	5.5
01007	BARIUM, TOTAL (UG/L AS BA)	08/09/77-08/09/77	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/18/76-12/21/89	4 ##	18.75	18.75	25.	12.5	52.083	7.217	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	01/02/75-11/17/94	100 ##	10.	12.34	50.	1.	133.196	11.541	1.	1.	25.	25.
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	01/02/75-01/02/75	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/23/75-11/17/94	100 ##	25.	20.2	130.	2.5	164.227	12.815	12.5	12.5	25.	25.
01037	COBALT, TOTAL (UG/L AS CO)	01/02/75-12/21/89	29 ##	50.	48.276	50.	25.	41.564	6.447	50.	50.	50.	50.
01042	COPPER, TOTAL (UG/L AS CU)	01/02/75-11/17/94	101 ##	10.	47.96	3600.	1.	127574.398	357.176	1.	4.	20.	20.
01045	IRON, TOTAL (UG/L AS FE)	01/02/75-11/17/94	55	380.	809.127	20000.	8.	7041199.076	2653.526	142.	250.	660.	1034.
01051	LEAD, TOTAL (UG/L AS PB)	01/02/75-11/17/94	100 ##	50.	33.05	200.	5.	877.22	29.618	5.	5.	50.	50.
01055	MANGANESE, TOTAL (UG/L AS MN)	01/02/75-11/17/94	42 ##	25.	47.863	540.	0.25	7625.336	87.323	12.5	25.	25.	88.
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	01/02/75-08/09/77	3 ##	50.	33.35	50.	0.05	831.668	28.839	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	09/23/75-11/17/94	83 ##	25.	33.133	300.	5.	1800.433	42.432	5.	5.	50.	50.
01077	SILVER, TOTAL (UG/L AS AG)	11/18/75-12/21/89	7 ##	4.	12.429	25.	2.5	138.536	11.77	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	12/08/75-08/09/77	2 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	01/02/75-11/17/94	100 ##	10.	113.455	9000.	0.5	807502.076	898.611	5.	5.	25.	25.
01097	ANTIMONY, TOTAL (UG/L AS SB)	08/09/77-08/09/77	1 ##	500.	500.	500.	500.	0.	0.	**	**	**	**
01102	TIN, TOTAL (UG/L AS SN)	08/09/77-08/09/77	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	09/23/75-11/17/94	40	300.	912.15	19000.	50.	8779538.541	2963.029	98.	167.5	700.	1080.
01132	LITHIUM, TOTAL (UG/L AS LI)	08/09/77-12/21/89	3 ##	12.5	16.667	25.	12.5	52.083	7.217	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	11/18/75-12/08/75	2	4.5	4.5	6.	3.	4.5	2.121	**	**	**	**
31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	09/23/75-10/29/75	2	37300.	37300.	70000.	4600.	2138580000.	46244.783	**	**	**	**
31504	LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,	09/23/75-10/29/75	2	4.254	4.254	4.845	3.663	0.699	0.836	**	**	**	**
31504	GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =			17944.358								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	169	270.	543.707	4600.	0.5	688550.421	829.789	10.	100.	555.	1400.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	169	2.431	2.254	3.663	-0.301	0.717	0.847	1.	2.	2.744	3.146
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			179.48								
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/02/75-01/02/75	1 ##	20.	20.	20.	20.	0.	0.	**	**	**	**
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	11/18/75-12/08/75	2	37.5	37.5	39.	36.	4.5	2.121	**	**	**	**
70305	SALINITY BASED ON CONDUCTIVITY	08/18/74-02/15/77	4	0.2	0.2	0.4	0.	0.053	0.231	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/23/76-06/18/91	57 ##	0.025	0.018	0.025	0.005	0.	0.009	0.005	0.005	0.025	0.025
71876	SOAPS, RESIN ACID (MG/L)	11/18/75-12/08/75	2	8.	8.	9.	7.	2.	1.414	**	**	**	**
71880	FORMALDEHYDE (MG/L)	11/18/75-12/08/75	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	01/02/75-11/17/94	93 ##	0.1	0.252	5.4	0.1	0.351	0.592	0.1	0.1	0.25	0.25
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	02/15/77-12/06/77	4	1420.	1782.25	3350.	939.	1146186.917	1070.601	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRSM0009

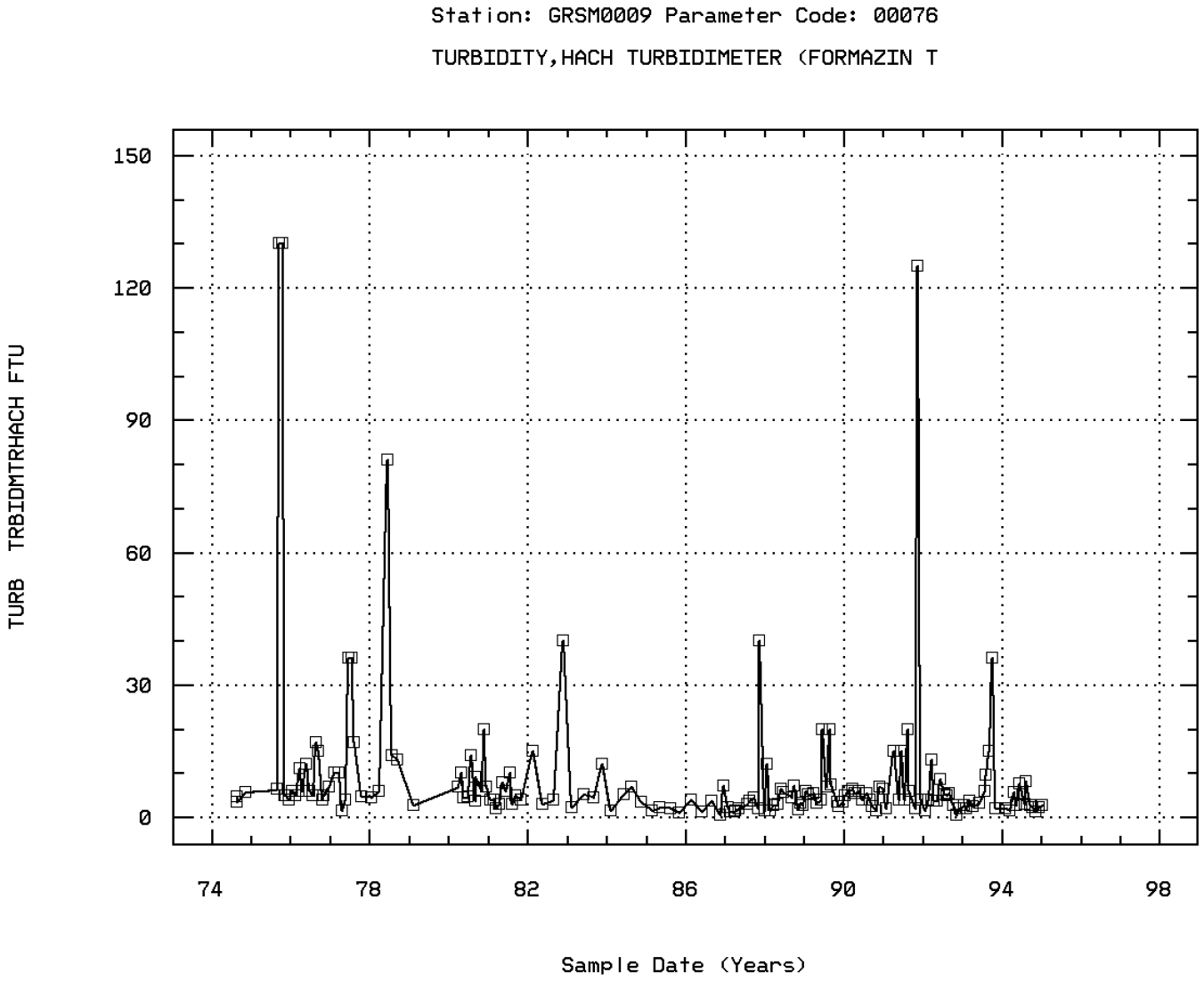
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	170	4	0.02	85	2	0.02	85	2	0.02						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	231	0	0.00	113	0	0.00	118	0	0.00						
00400	PH	Other-Hi Lim.	9.	210	0	0.00	101	0	0.00	109	0	0.00						
		Other-Lo Lim.	6.5	210	34	0.16	101	27	0.27	109	7	0.06						
00403	PH, LAB	Other-Hi Lim.	9.	118	0	0.00	63	0	0.00	55	0	0.00						
		Other-Lo Lim.	6.5	118	4	0.03	63	4	0.06	55	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	103	0	0.00	50	0	0.00	53	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	19	0	0.00	10	0	0.00	9	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	18	0	0.00	9	0	0.00	9	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	98	0	0.00	52	0	0.00	46	0	0.00						
		Drinking Water	50.	98	0	0.00	52	0	0.00	46	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

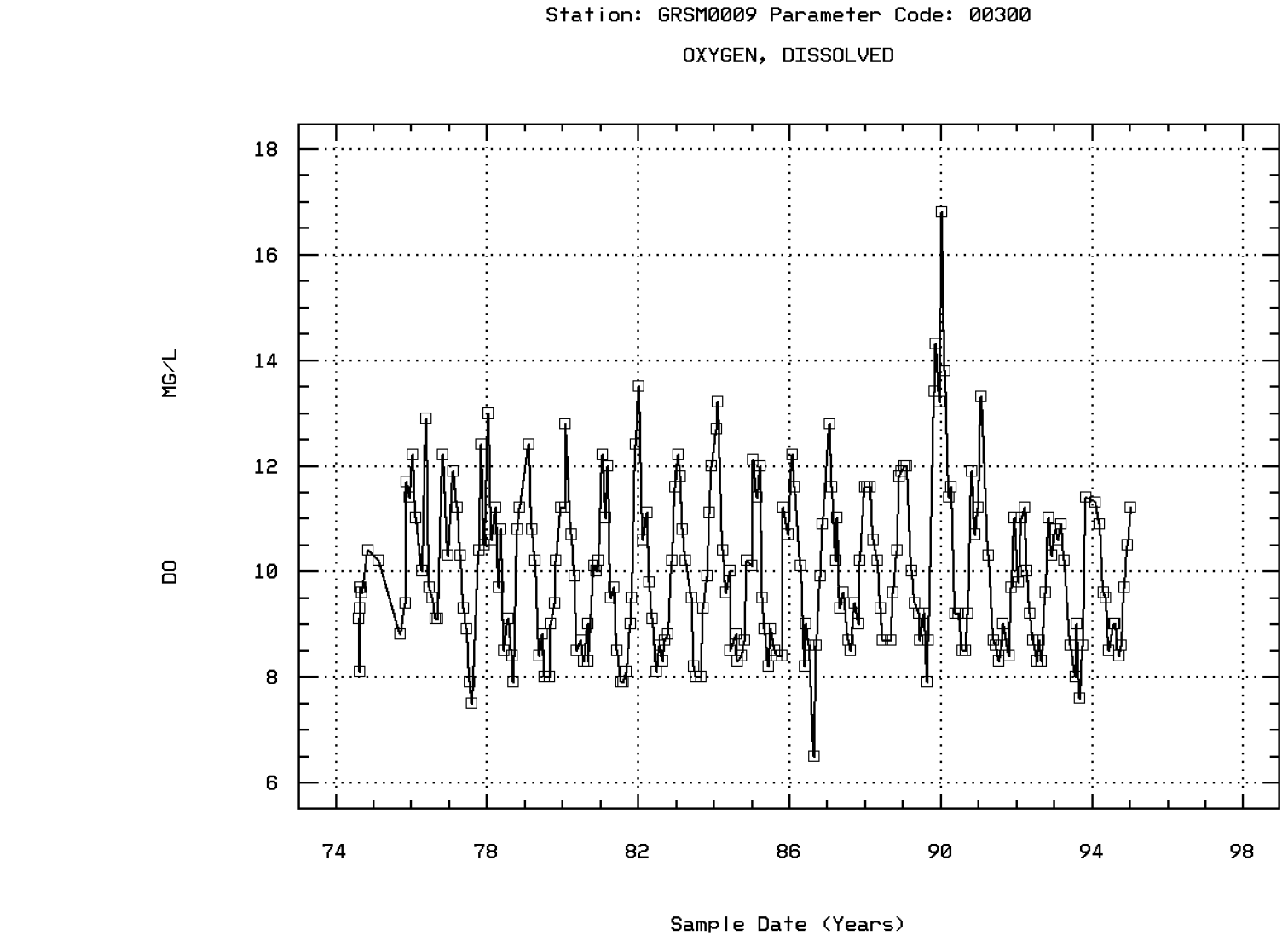
EPA Water Quality Criteria Analysis for Station: GRSM0009

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00				1	0	0.00						
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	4	0	0.00	2	0	0.00	2	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	40 &	1	0.03	20	1	0.05	20	0	0.00						
		Drinking Water	5.	40 &	1	0.03	20	1	0.05	20	0	0.00						
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	0 &	0	0.00												
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	100	1	0.01	53	0	0.00	47	1	0.02						
01042	COPPER, TOTAL	Fresh Acute	18.	64 &	5	0.08	31	1	0.03	33	4	0.12						
		Drinking Water	1300.	101	1	0.01	54	0	0.00	47	1	0.02						
01051	LEAD, TOTAL	Fresh Acute	82.	100	4	0.04	53	3	0.06	47	1	0.02						
		Drinking Water	5.	5 &	5	1.00	4	4	1.00	1	1	1.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	83	0	0.00	43	0	0.00	40	0	0.00						
		Drinking Water	100.	83	2	0.02	43	0	0.00	40	2	0.05						
01077	SILVER, TOTAL	Fresh Acute	4.1	4 &	0	0.00	4	0	0.00									
		Drinking Water	50.	7	0	0.00	6	0	0.00	1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	100	5	0.05	53	2	0.04	47	3	0.06						
01097	ANTIMONY, TOTAL	Fresh Acute	88.	0 &	0	0.00												
		Drinking Water	10.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	2	0	0.00									
		Drinking Water	50.	2	0	0.00	2	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	169	100	0.59	79	34	0.43	90	66	0.73						
71900	MERCURY, TOTAL	Fresh Acute	2.4	93	1	0.01	48	0	0.00	45	1	0.02						
		Drinking Water	2.	93	2	0.02	48	0	0.00	45	2	0.04						

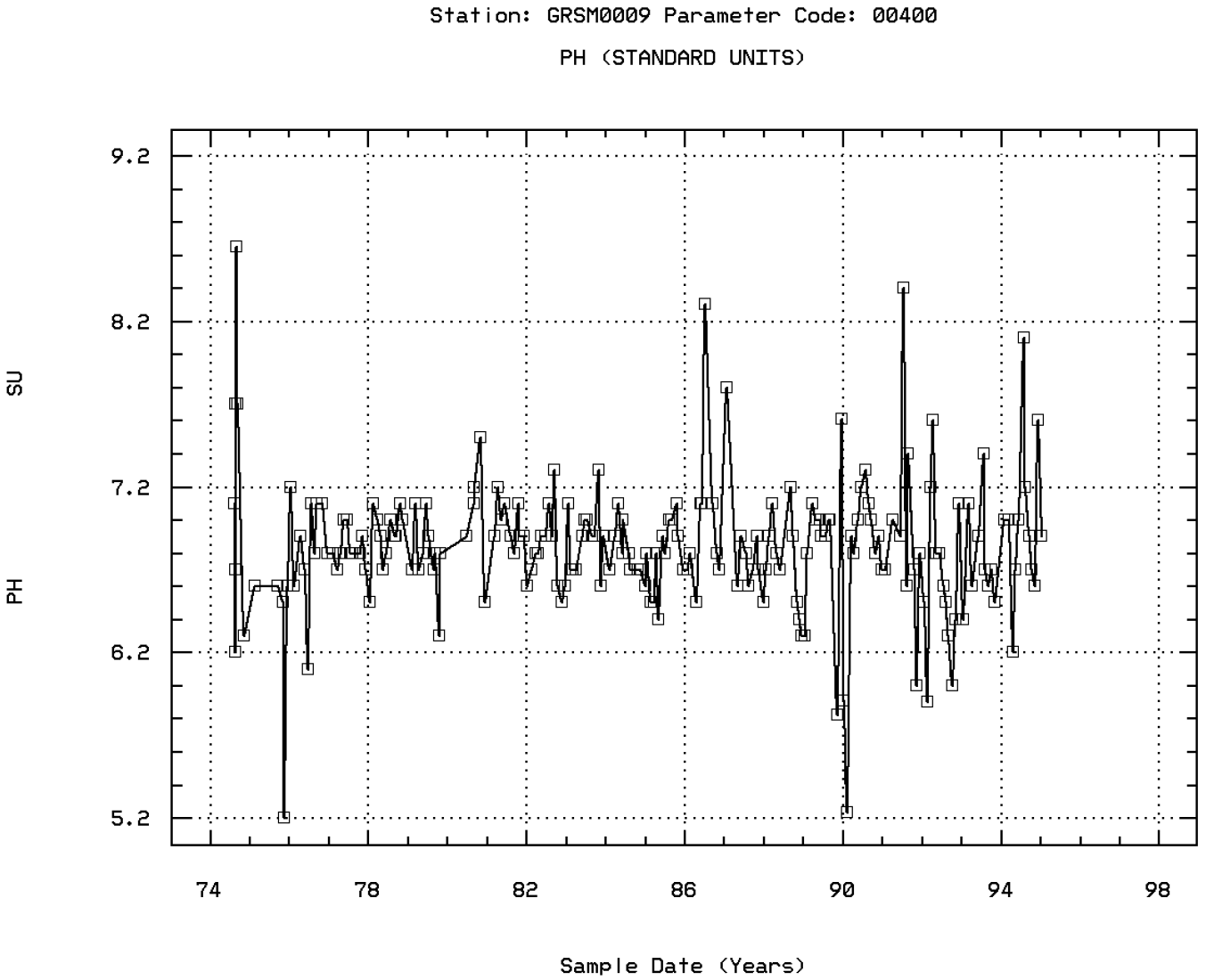
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter



TUCKASEGEE RIVER AT BRYSON CITY



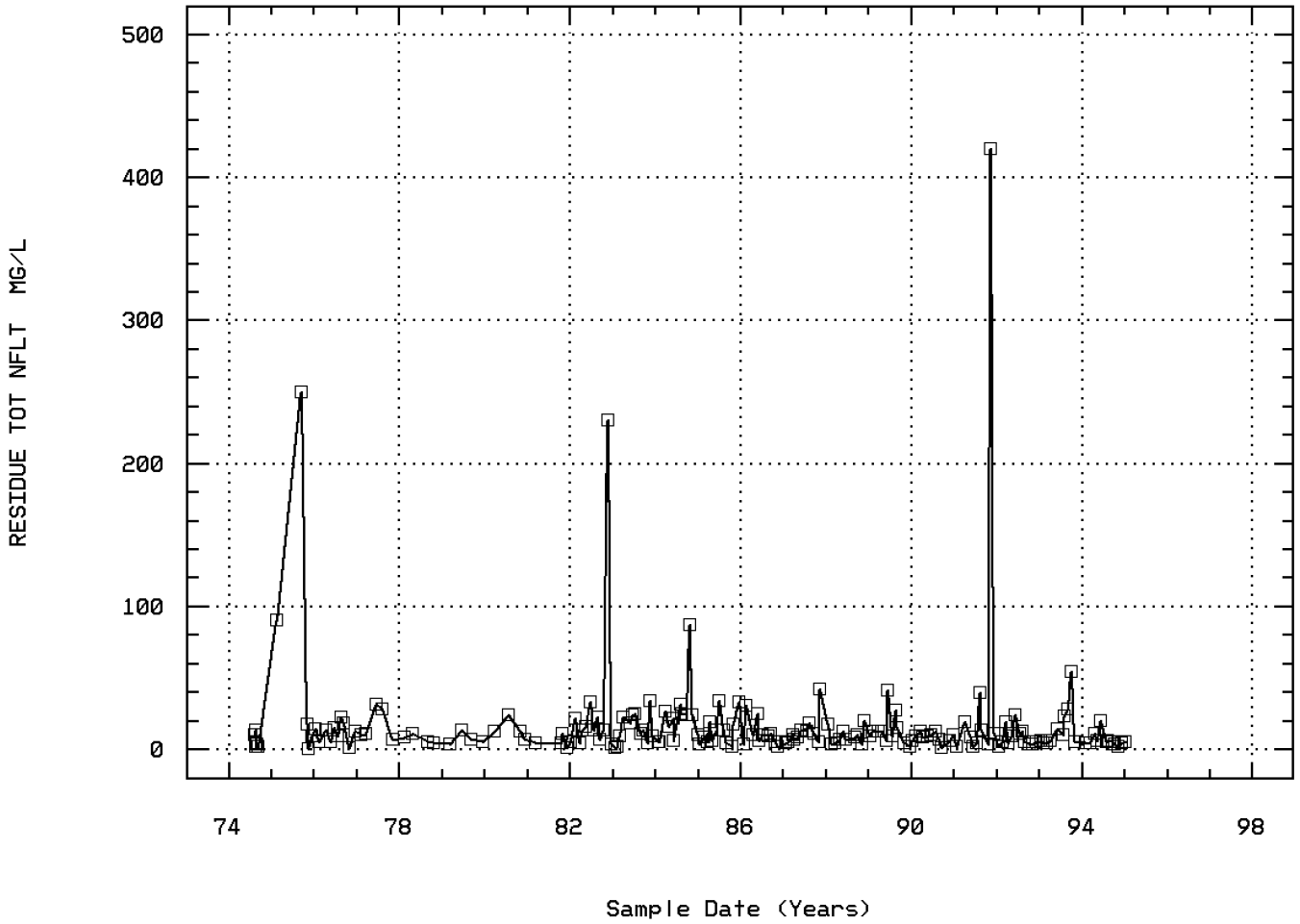
TUCKASEGEE RIVER AT BRYSON CITY



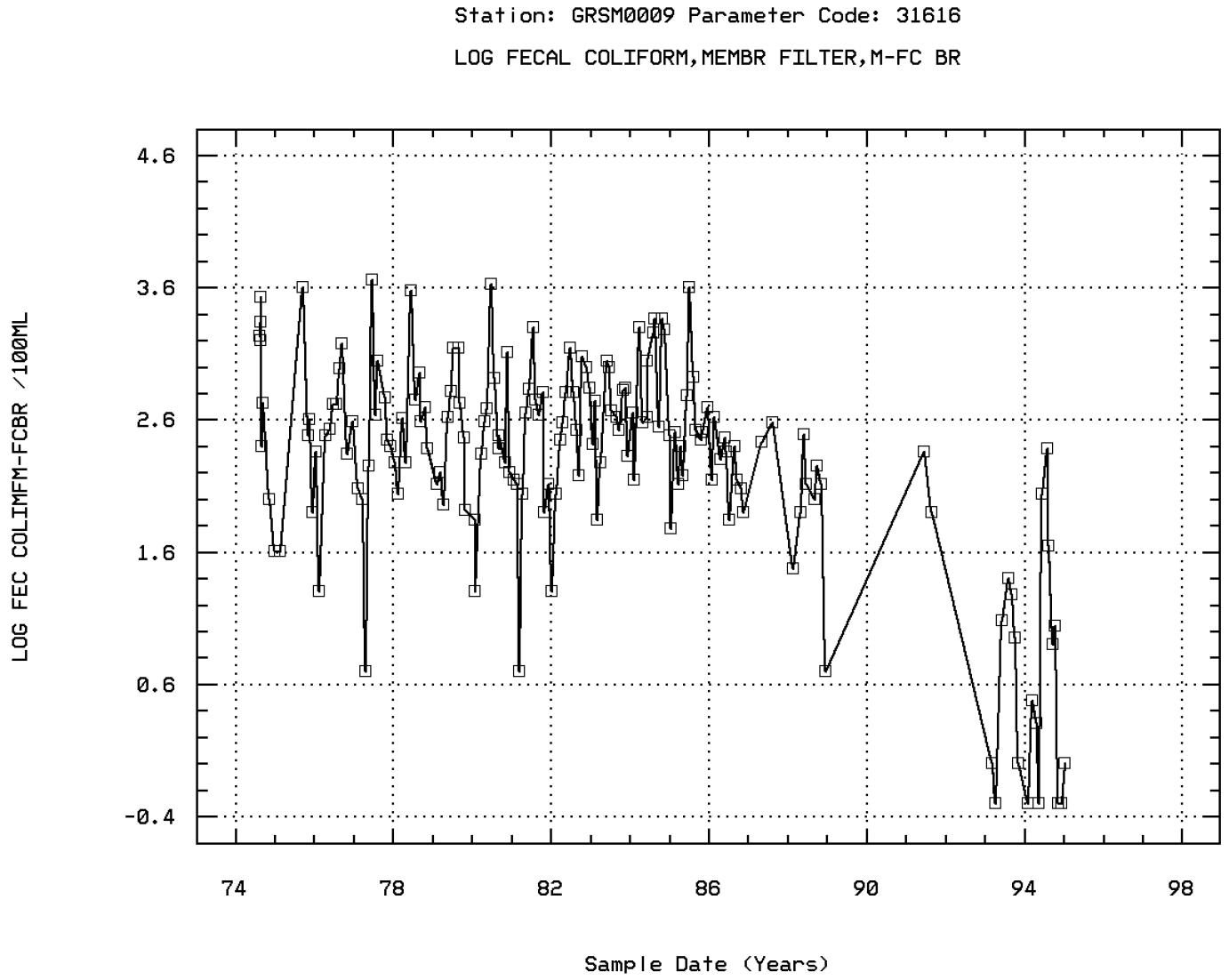
TUCKASEGEE RIVER AT BRYSON CITY

Station: GRSM0009 Parameter Code: 00530

RESIDUE, TOTAL NONFILTRABLE (MG/L)



TUCKASEGEE RIVER AT BRYSON CITY



TUCKASEGEE RIVER AT BRYSON CITY

Annual Analysis for 1974 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	7	21.	18.643	22.	8.	23.726	4.871	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	3	4.6	4.6	5.7	3.5	1.21	1.1	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	7	9.6	9.414	10.4	8.1	0.501	0.708	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-09/05/85	5	101.	100.	108.	87.	61.	7.81	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	7	0.9	1.057	1.8	0.5	0.29	0.538	**	**	**	**
00400p	PH (STANDARD UNITS)	08/13/74-01/09/95	7	7.1	7.193	8.65	6.2	0.779	0.882	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	7	7.1	6.683	8.65	6.2	1.082	1.04	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	7	0.079	0.208	0.631	0.002	0.066	0.256	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	7	6.	5.714	8.	4.	1.571	1.254	**	**	**	**
00500p	RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	7	32.	28.714	43.	4.	171.905	13.111	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	6	3.5	5.667	13.	2.	21.867	4.676	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	2	0.275	0.275	0.34	0.21	0.008	0.092	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	2 ##	0.048	0.048	0.07	0.025	0.001	0.032	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	7	1600.	1397.143	3400.	100.	1423223.81	1192.989	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	7	3.204	2.919	3.531	2.	0.314	0.561	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			829.219								

** - Less 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 GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	5	11.	12.	17.	8.	18.5	4.301	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	3	1230.	1261.667	1750.	805.	224008.333	473.295	**	**	**	**
00065	STAGE, STREAM (FEET)	09/23/75-09/09/93	4	2.695	2.983	4.48	2.06	1.117	1.057	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	6	5.65	46.717	130.	4.	4162.202	64.515	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	5	10.2	10.3	11.7	8.8	1.56	1.249	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-09/05/85	5	94.	94.4	103.	86.	42.3	6.504	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	6	0.4	0.567	1.2	0.1	0.223	0.472	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	01/02/75-04/16/81	5 ##	12.5	20.2	51.	12.5	296.45	17.218	**	**	**	**
00400p	PH (STANDARD UNITS)	08/13/74-01/09/95	5	6.6	6.3	6.6	5.2	0.38	0.616	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	5	6.6	5.831	6.6	5.2	0.655	0.809	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	5	0.251	1.476	6.31	0.251	7.302	2.702	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	5	6.	6.2	12.	1.	17.2	4.147	**	**	**	**
00500p	RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	6	31.5	90.675	383.	0.025	21806.054	147.669	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	5	17.	73.205	250.	0.025	11043.785	105.089	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	5 ##	0.025	0.07	0.25	0.025	0.01	0.101	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	5	0.1	0.21	0.5	0.05	0.036	0.188	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	5	0.23	0.218	0.39	0.06	0.015	0.124	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	5 ##	0.025	0.143	0.46	0.025	0.036	0.189	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	6	190.	810.	4000.	40.	2464600.	1569.904	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	6	2.19	2.298	3.602	1.602	0.59	0.768	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			198.644								

** - Less 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 GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	10	14.	12.7	20.	5.	38.9	6.237	5.	5.	17.75	20.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	6	1400.	1625.667	3250.	805.	784362.667	885.643	**	**	**	**
00065	STAGE, STREAM (FEET)	09/23/75-09/09/93	7	2.66	2.743	3.92	2.06	0.371	0.609	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	12	6.	8.25	17.	4.	19.114	4.372	4.3	5.	11.75	16.4

** - 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 1976 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00300p	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	10	10.15	10.6	12.9	9.1	1.949	1.396	9.1	9.4	12.2	12.83
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-09/05/85	10	98.	98.2	116.	80.	81.956	9.053	81.4	94.75	103.	114.7
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	10	0.6	0.81	2.8	0.2	0.577	0.759	0.21	0.375	0.9	2.64
00340	COD, .25N K2CR2O7 MG/L	01/02/75-04/16/81	10 ##	5.	5.7	12.	5.	4.9	2.214	5.	5.	5.	11.3
00400p	PH (STANDARD UNITS)	08/13/74-01/09/95	10	6.85	6.84	7.2	6.1	0.107	0.327	6.15	6.675	7.1	7.19
00400p	CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	10	6.847	6.701	7.2	6.1	0.128	0.358	6.15	6.675	7.1	7.19
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	10	0.142	0.199	0.794	0.063	0.047	0.218	0.065	0.079	0.212	0.74
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	10	7.5	7.6	10.	6.	2.044	1.43	6.	6.	9.	9.9
00500p	RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	9	32.	36.333	52.	26.	78.25	8.846	26.	30.	44.5	52.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	10	12.5	11.35	22.	0.5	42.781	6.541	0.95	5.	15.75	21.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	12 ##	0.025	0.03	0.06	0.025	0.	0.012	0.025	0.025	0.025	0.057
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	12	0.2	0.238	0.6	0.05	0.035	0.187	0.065	0.1	0.3	0.6
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	11	0.13	0.148	0.25	0.09	0.003	0.053	0.09	0.11	0.18	0.244
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	12 ##	0.025	0.035	0.1	0.025	0.001	0.023	0.025	0.025	0.044	0.085
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	10	365.	501.	1500.	20.	186787.778	432.19	40.	227.5	632.5	1447.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	10	2.561	2.52	3.176	1.301	0.253	0.503	1.405	2.357	2.784	3.157
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			331.109								

** - Less 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 GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	10	14.5	14.8	26.	8.	47.067	6.861	8.	8.	22.	25.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	3	1480.	1923.	3350.	939.	1600417.	1265.076	**	**	**	**
00065	STAGE, STREAM (FEET)	09/23/75-09/09/93	4	2.66	2.868	3.95	2.2	0.571	0.756	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	8	10.	14.913	36.	1.5	191.89	13.852	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	10	10.35	10.03	12.4	7.5	2.629	1.621	7.54	8.65	11.375	12.35
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-09/05/85	10	98.5	96.7	106.	85.	58.233	7.631	85.2	87.75	103.25	105.8
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	10	0.7	0.75	1.2	0.2	0.154	0.392	0.2	0.425	1.2	1.2
00340	COD, .25N K2CR2O7 MG/L	01/02/75-04/16/81	10 ##	5.	6.5	20.	5.	22.5	4.743	5.	5.	5.	18.5
00400p	PH (STANDARD UNITS)	08/13/74-01/09/95	10	6.8	6.83	7.	6.7	0.011	0.106	6.7	6.775	6.925	7.
00400p	CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	10	6.8	6.819	7.	6.7	0.011	0.107	6.7	6.775	6.925	7.
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	10	0.158	0.152	0.2	0.1	0.001	0.035	0.1	0.119	0.169	0.2
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	10	7.	7.1	9.	5.	1.656	1.287	5.	6.5	8.	8.9
00500p	RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	6	35.	41.667	69.	22.	371.067	19.263	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	6	10.5	14.667	31.	1.	145.067	12.044	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	8 ##	0.025	0.033	0.06	0.025	0.	0.014	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	8	0.15	0.144	0.2	0.05	0.004	0.062	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	8	0.175	0.247	0.97	0.025	0.09	0.299	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	8 ##	0.025	0.034	0.07	0.025	0.	0.017	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	10	265.	764.5	4600.	5.	1916046.944	1384.213	14.5	115.	710.	4250.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	10	2.423	2.398	3.663	0.699	0.597	0.773	0.829	2.059	2.833	3.601
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			250.01								

** - Less 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 GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	11	10.	13.364	26.	4.	52.055	7.215	4.2	8.	20.	25.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	6	824.	1068.167	2290.	484.	450857.767	671.459	**	**	**	**
00065	STAGE, STREAM (FEET)	09/23/75-09/09/93	6	2.13	2.283	3.31	1.68	0.356	0.597	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	5	13.	23.68	81.	4.5	1044.337	32.316	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	11	10.6	10.109	13.	7.9	2.351	1.533	8.	8.5	11.2	12.64

** - Less 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 GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-09/05/85	2	100.5	100.5	102.	99.	4.5	2.121	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	11	0.5	0.545	1.7	0.1	0.209	0.457	0.12	0.2	0.8	1.54
00340	COD, .25N K2CR2O7 MG/L	01/02/75-04/16/81	11 ##	5.	5.545	11.	5.	3.273	1.809	5.	5.	5.	9.8
00400p	PH (STANDARD UNITS)	08/13/74-01/09/95	11	6.9	6.9	7.1	6.5	0.032	0.179	6.54	6.8	7.	7.1
00400p	CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	11	6.9	6.862	7.1	6.5	0.034	0.183	6.54	6.8	7.	7.1
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	11	0.126	0.137	0.316	0.079	0.005	0.069	0.079	0.1	0.158	0.293
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	11	8.	7.818	11.	6.	3.364	1.834	6.	6.	10.	10.8
00500p	RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	4	39.	37.5	43.	29.	35.667	5.972	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	4	6.5	7.	11.	4.	10.	3.162	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	11 ##	0.025	0.035	0.08	0.025	0.	0.018	0.025	0.025	0.05	0.074
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	11	0.2	0.164	0.4	0.05	0.01	0.1	0.05	0.1	0.2	0.36
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	11	0.14	0.145	0.21	0.08	0.002	0.042	0.084	0.12	0.19	0.206
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	11 ##	0.025	0.038	0.14	0.025	0.001	0.035	0.025	0.025	0.025	0.122
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	10	400.	728.	3800.	110.	1218440.	1103.83	118.	190.	645.	3510.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	10	2.602	2.616	3.58	2.041	0.187	0.432	2.065	2.279	2.8	3.517
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			412.607								

** - Less 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 GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	11	13.	12.545	21.	2.	42.273	6.502	2.6	6.	18.	21.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	10	1755.	1852.9	4110.	909.	841032.989	917.079	919.1	1092.5	2180.	3920.
00065	STAGE, STREAM (FEET)	09/23/75-09/09/93	10	2.915	2.934	4.4	2.18	0.41	0.64	2.189	2.353	3.228	4.285
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	11	9.4	9.673	12.4	8.	2.01	1.418	8.	8.4	10.8	12.16
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	11	0.6	0.636	0.9	0.4	0.023	0.15	0.42	0.5	0.8	0.88
00340	COD, .25N K2CR2O7 MG/L	01/02/75-04/16/81	11 ##	5.	5.818	14.	5.	7.364	2.714	5.	5.	5.	12.2
00400p	PH (STANDARD UNITS)	08/13/74-01/09/95	10	6.8	6.79	7.1	6.3	0.052	0.228	6.34	6.7	6.95	7.1
00400p	CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	10	6.8	6.73	7.1	6.3	0.056	0.237	6.34	6.7	6.95	7.1
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	10	0.158	0.186	0.501	0.079	0.014	0.119	0.079	0.114	0.2	0.471
00403	PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	1	0.158	0.158	0.158	0.158	0.	0.	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	11	6.	6.727	11.	5.	3.418	1.849	5.	5.	8.	10.4
00500p	RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	4	20.5	23.5	40.	13.	161.667	12.715	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	4	6.	7.	13.	3.	18.667	4.32	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	10	0.1	0.145	0.4	0.05	0.012	0.109	0.05	0.05	0.2	0.38
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	10	0.115	0.123	0.19	0.06	0.002	0.041	0.063	0.09	0.16	0.187
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	10 ##	0.025	0.034	0.11	0.025	0.001	0.027	0.025	0.025	0.025	0.102
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	11	290.	470.273	1400.	10.	252186.818	502.182	24.6	90.	660.	1400.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	11	2.462	2.374	3.146	1.	0.395	0.629	1.184	1.954	2.82	3.146
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			236.548								

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Annual Analysis for 1980 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	12	10.5	12.	21.	3.	41.273	6.424	3.3	6.5	19.25	20.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	11	2030.	2036.545	5310.	642.	1852847.273	1361.193	645.6	1010.	2670.	4846.
00065	STAGE, STREAM (FEET)	09/23/75-09/09/93	11	3.12	3.008	5.01	1.88	0.877	0.937	1.884	2.27	3.56	4.76
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	10	6.95	8.56	20.	3.7	25.676	5.067	3.77	4.55	11.	19.4

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Annual Analysis for 1980 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00300p	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	12	9.95	9.808	12.8	8.3	1.828	1.352	8.3	8.55	10.575	12.32
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-09/05/85	3	86.2	85.733	89.4	81.6	15.373	3.921	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	12	0.9	0.792	1.2	0.3	0.07	0.264	0.33	0.6	0.975	1.14
00340	COD, .25N K2CR2O7 MG/L	01/02/75-04/16/81	12 ##	5.	6.5	15.	5.	12.455	3.529	5.	5.	5.	14.4
00400p	PH (STANDARD UNITS)	08/13/74-01/09/95	5	7.1	7.04	7.5	6.5	0.138	0.371	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	5	7.1	6.909	7.5	6.5	0.159	0.399	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	5	0.079	0.123	0.316	0.032	0.013	0.113	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	12	6.9	6.867	7.1	6.7	0.013	0.115	6.7	6.8	6.9	7.07
00403	CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	12	6.9	6.853	7.1	6.7	0.014	0.116	6.7	6.8	6.9	7.07
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	12	0.126	0.14	0.2	0.079	0.001	0.036	0.086	0.126	0.158	0.2
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	12	7.	7.25	10.	2.	4.932	2.221	3.2	6.	9.	10.
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	5	9.	11.8	28.	5.	85.7	9.257	**	**	**	**
00500p	RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	4	47.	47.	57.	37.	120.667	10.985	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	4	12.	13.75	24.	7.	52.25	7.228	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	11	0.1	0.145	0.3	0.05	0.01	0.099	0.05	0.05	0.2	0.3
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	11	0.15	0.161	0.26	0.07	0.003	0.051	0.08	0.12	0.2	0.25
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	11 ##	0.025	0.038	0.11	0.025	0.001	0.027	0.025	0.025	0.05	0.1
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	12	270.	699.167	4200.	20.	1343808.333	1159.227	35.	167.5	735.	3330.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	12	2.429	2.479	3.623	1.301	0.353	0.595	1.464	2.223	2.856	3.47
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			301.536								

** - Less 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 GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	12	14.5	12.625	22.	2.	50.778	7.126	2.15	5.25	18.75	21.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	12	843.	899.5	1610.	484.	140398.273	374.698	488.8	546.75	1247.5	1535.
00065	STAGE, STREAM (FEET)	09/23/75-09/09/93	11	2.17	2.169	2.8	1.68	0.137	0.37	1.692	1.83	2.52	2.758
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	10	4.	4.9	10.	2.	6.1	2.47	2.1	3.	6.5	9.8
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	4	30.	29.	32.	24.	12.667	3.559	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	12	9.5	9.808	12.4	7.9	2.857	1.69	7.9	8.2	11.75	12.34
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-09/05/85	12	89.9	89.833	96.	85.3	10.497	3.24	85.48	87.85	91.075	95.73
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	12	0.85	0.883	1.8	0.5	0.122	0.349	0.53	0.6	1.05	1.59
00340	COD, .25N K2CR2O7 MG/L	01/02/75-04/16/81	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	08/13/74-01/09/95	9	6.9	6.978	7.2	6.8	0.017	0.13	6.8	6.9	7.1	7.2
00400p	CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	9	6.9	6.961	7.2	6.8	0.017	0.131	6.8	6.9	7.1	7.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	9	0.126	0.109	0.158	0.063	0.001	0.031	0.063	0.079	0.126	0.158
00403	PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	12	6.8	6.817	7.1	6.6	0.023	0.153	6.6	6.7	6.9	7.07
00403	CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	12	6.8	6.793	7.1	6.6	0.024	0.155	6.6	6.7	6.9	7.07
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	12	0.158	0.161	0.251	0.079	0.003	0.055	0.086	0.126	0.2	0.251
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	12	8.	7.667	10.	6.	1.697	1.303	6.	6.25	8.75	9.7
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	9	8.	9.333	17.	7.	9.5	3.082	7.	7.5	10.	17.
00500p	RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	4	36.	35.75	40.	31.	19.583	4.425	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	4	4.	4.875	11.	0.5	19.396	4.404	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	4 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	4	0.15	0.15	0.2	0.1	0.003	0.058	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	4	0.145	0.138	0.16	0.1	0.001	0.029	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	3 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	12	285.	446.25	2000.	5.	295932.386	543.997	27.5	115.	620.	1604.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	12	2.39	2.333	3.301	0.699	0.441	0.664	1.06	2.06	2.792	3.16
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			215.115								

** - Less 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 GRSM0009

Parameter		Period of Record	Obs		Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	12		14.	13.833	26.	-1.	53.061	7.284	7.3	2.	19.5	24.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	12		1250.	1964.917	6800.	625.	3268472.811	1807.892	676.	956.75	1917.5	6059.
00065	STAGE, STREAM (FEET)	09/23/75-09/09/93	12		2.495	2.907	5.72	1.86	1.264	1.124	1.917	2.218	3.038	5.36
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	4		9.5	15.5	40.	3.	296.333	17.214	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	12		23.	23.	30.	14.	17.091	4.134	15.5	21.	25.	29.4
00300p	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	12		9.45	9.867	13.5	8.1	2.604	1.614	8.16	8.625	10.975	12.93
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-09/05/85	12		91.5	92.917	105.	88.	20.083	4.481	88.6	90.25	94.5	102.6
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	12		0.7	0.825	1.6	0.4	0.164	0.405	0.43	0.5	1.125	1.57
00400p	PH (STANDARD UNITS)	08/13/74-01/09/95	12		6.8	6.808	7.3	6.5	0.054	0.231	6.53	6.6	6.9	7.24
00400p	CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	12		6.8	6.758	7.3	6.5	0.056	0.237	6.53	6.6	6.9	7.24
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	12		0.158	0.174	0.316	0.05	0.006	0.08	0.059	0.126	0.251	0.297
00403	PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	12		6.75	6.783	7.	6.5	0.023	0.153	6.56	6.7	6.95	7.
00403	CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	12		6.747	6.759	7.	6.5	0.024	0.155	6.56	6.7	6.95	7.
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	12		0.179	0.174	0.316	0.1	0.004	0.061	0.1	0.115	0.2	0.281
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	12		7.5	7.417	10.	4.	4.083	2.021	4.3	6.	9.	10.
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	12		7.	6.667	10.	4.	3.515	1.875	4.	5.	8.	9.4
00500p	RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	12		50.5	67.667	290.	25.	5110.424	71.487	25.9	34.25	62.75	224.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	12		13.	31.667	230.	3.	3976.606	63.06	3.3	5.5	21.75	170.9
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	4	##	0.025	0.026	0.03	0.025	0.	0.002	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	4		0.2	0.3	0.6	0.2	0.04	0.2	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	4		0.2	0.225	0.4	0.1	0.021	0.146	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	4		0.05	0.136	0.42	0.025	0.036	0.19	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	12		510.	570.	1400.	20.	196654.545	443.457	47.	182.5	922.5	1340.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	12		2.693	2.562	3.146	1.301	0.275	0.524	1.523	2.244	2.96	3.126
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =				364.508								

** - Less 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 GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	02/15/83-01/09/95	1	182.	182.	182.	182.	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	12	11.5	11.958	20.	5.	32.112	5.667	5.	6.625	18.	20.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	12	1440.	1627.583	3120.	704.	680316.992	824.813	712.4	966.75	2310.	3069.
00064	DEPTH OF STREAM, MEAN (FT)	02/15/83-01/09/95	1	4.9	4.9	4.9	4.9	0.	0.	**	**	**	**
00065	STAGE, STREAM (FEET)	09/23/75-09/09/93	12	2.66	2.668	3.84	0.98	0.636	0.798	1.271	2.228	3.313	3.81
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	4	4.85	6.	12.	2.3	17.527	4.186	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	12	28.5	30.333	42.	25.	29.152	5.399	25.	25.25	34.	39.9
00300p	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	12	10.05	10.083	12.2	8.	2.352	1.534	8.	8.475	11.625	12.14
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-09/05/85	12	91.5	91.5	100.	87.	15.909	3.989	87.	87.25	93.75	98.8
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	12	0.5	0.592	1.2	0.2	0.084	0.291	0.23	0.35	0.85	1.11
00400p	PH (STANDARD UNITS)	08/13/74-01/09/95	12	6.9	6.892	7.3	6.6	0.039	0.198	6.63	6.7	7.	7.24
00400p	CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	12	6.9	6.853	7.3	6.6	0.041	0.202	6.63	6.7	7.	7.24
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	12	0.126	0.14	0.251	0.05	0.004	0.059	0.059	0.1	0.2	0.236
00403	PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	12	6.7	6.675	6.8	6.5	0.009	0.097	6.53	6.6	6.775	6.8
00403	CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	12	6.7	6.665	6.8	6.5	0.009	0.097	6.53	6.6	6.775	6.8
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	12	0.2	0.216	0.316	0.158	0.002	0.049	0.158	0.169	0.251	0.297
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	12	6.	6.583	9.	5.	2.811	1.676	5.	5.	8.	9.
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	12	6.5	6.667	10.	5.	2.242	1.497	5.	5.25	7.75	9.4
00500p	RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	12	41.5	43.167	66.	21.	231.606	15.219	21.9	27.75	58.	63.9
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	12	12.	14.292	34.	0.5	107.839	10.385	0.95	5.25	23.5	31.3
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	4	0.01	0.013	0.02	0.01	0.	0.005	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	4	0.2	0.175	0.2	0.1	0.003	0.05	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	4	0.175	0.198	0.28	0.16	0.003	0.056	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	4	0.05	0.053	0.08	0.03	0.	0.021	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	12	445.	496.667	1100.	70.	103296.97	321.398	106.	222.5	685.	1070.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	12	2.648	2.593	3.041	1.845	0.116	0.341	1.975	2.345	2.836	3.029

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Annual Analysis for 1983 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			392.162								

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Annual Analysis for 1984 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	02/15/83-01/09/95	1	182.	182.	182.	182.	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	12	12.	12.167	19.	1.	35.97	5.997	1.6	9.25	17.75	19.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	12	1510.	1626.833	3250.	842.	476156.697	690.041	904.4	1080.	2042.5	2941.
00064	DEPTH OF STREAM, MEAN (FT)	02/15/83-01/09/95	1	4.9	4.9	4.9	4.9	0.	0.	**	**	**	**
00065	STAGE, STREAM (FEET)	09/23/75-09/09/93	12	2.76	2.785	3.92	2.1	0.28	0.529	2.169	2.348	3.133	3.722
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	4	4.35	4.3	7.	1.5	5.527	2.351	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	12	26.	27.583	35.	21.	21.356	4.621	21.6	24.25	33.	34.7
00300p	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	12	9.8	9.908	13.2	8.3	2.603	1.613	8.33	8.55	10.35	13.05
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-09/05/85	6	91.5	91.333	94.	88.	4.667	2.16	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	12	0.55	0.6	0.9	0.3	0.049	0.222	0.3	0.425	0.85	0.9
00400p	PH (STANDARD UNITS)	08/13/74-01/09/95	10	6.75	6.8	7.1	6.6	0.024	0.156	6.61	6.7	6.925	7.09
00400p	CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	10	6.747	6.777	7.1	6.6	0.025	0.158	6.61	6.7	6.925	7.09
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	10	0.179	0.167	0.251	0.079	0.003	0.053	0.081	0.119	0.2	0.246
00403	PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	12	6.8	6.758	6.9	6.6	0.014	0.116	6.6	6.625	6.875	6.9
00403	CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	12	6.8	6.744	6.9	6.6	0.014	0.117	6.6	6.625	6.875	6.9
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	12	0.158	0.18	0.251	0.126	0.002	0.049	0.126	0.134	0.238	0.251
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	12	7.	6.917	10.	4.	2.629	1.621	4.3	6.	7.75	9.7
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	10	6.5	6.9	10.	6.	1.656	1.287	6.	6.	7.25	9.8
00500p	RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	12	53.	58.167	130.	29.	648.879	25.473	31.7	43.25	63.75	111.7
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	12	22.5	23.333	87.	5.	484.788	22.018	5.	7.	25.75	70.2
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	4	0.02	0.035	0.08	0.02	0.001	0.03	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	4	0.15	0.163	0.3	0.05	0.012	0.111	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	4	0.185	0.188	0.28	0.1	0.007	0.082	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	4	0.035	0.038	0.06	0.02	0.	0.021	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	12	775.	1120.	2300.	140.	758418.182	870.872	188.	357.5	1975.	2300.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	12	2.847	2.885	3.362	2.146	0.181	0.425	2.245	2.553	3.295	3.362
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			767.872								

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Annual Analysis for 1985 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	12	15.	13.5	22.	0.	44.455	6.667	1.8	8.5	19.25	21.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	12	809.	1001.083	1930.	355.	241566.992	491.495	428.5	662.	1392.5	1876.
00065	STAGE, STREAM (FEET)	09/23/75-09/09/93	12	2.065	2.218	3.05	1.49	0.222	0.471	1.592	1.903	2.618	3.005
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	4	1.7	1.7	2.3	1.1	0.267	0.516	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	11	26.	26.273	34.	20.	16.418	4.052	20.2	23.	28.	33.4
00300p	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	12	9.2	9.85	12.1	8.2	2.301	1.517	8.26	8.425	11.35	12.07
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-09/05/85	6	91.5	91.667	95.	89.	3.867	1.966	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	4	0.75	0.725	0.8	0.6	0.009	0.096	**	**	**	**
00400p	PH (STANDARD UNITS)	08/13/74-01/09/95	12	6.8	6.783	7.1	6.4	0.049	0.221	6.43	6.55	6.975	7.07
00400p	CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	12	6.8	6.73	7.1	6.4	0.052	0.228	6.43	6.55	6.975	7.07
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	12	0.158	0.186	0.398	0.079	0.01	0.102	0.086	0.106	0.287	0.374
00403	PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	12	6.9	6.867	7.	6.6	0.019	0.137	6.63	6.725	7.	7.
00403	CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	12	6.9	6.846	7.	6.6	0.019	0.139	6.63	6.725	7.	7.
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	12	0.126	0.143	0.251	0.1	0.002	0.049	0.1	0.1	0.189	0.236
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	12	8.	7.833	11.	5.	2.515	1.586	5.3	7.	9.	10.4

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Annual Analysis for 1985 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	11	9.	8.091	10.	4.	3.491	1.868	4.4	7.	9.	10.
00500p	RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	12	34.5	40.083	71.	12.	286.265	16.919	15.9	29.5	55.75	68.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	12	10.5	13.083	34.	2.	121.174	11.008	2.3	4.25	18.5	33.7
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	4	0.035	0.03	0.04	0.01	0.	0.014	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	4	0.15	0.175	0.3	0.1	0.009	0.096	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	4	0.19	0.19	0.23	0.15	0.001	0.034	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	4	0.04	0.035	0.04	0.02	0.	0.01	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	12	320.	648.333	4000.	60.	1161033.333	1077.513	81.	175.	580.	3052.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	12	2.505	2.537	3.602	1.778	0.208	0.456	1.879	2.232	2.762	3.399
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			344.347								

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Annual Analysis for 1986 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	10	14.5	14.8	25.	1.	61.511	7.843	1.7	9.5	22.	24.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	9	823.	1051.667	2670.	552.	452242.75	672.49	552.	634.	1320.	2670.
00065	STAGE, STREAM (FEET)	09/23/75-09/09/93	9	2.06	2.227	3.56	1.74	0.336	0.58	1.74	1.835	2.53	3.56
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	5	3.7	3.34	7.2	0.5	6.923	2.631	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	6	27.5	26.667	32.	21.	21.467	4.633	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	10	9.45	9.56	12.2	6.5	2.967	1.723	6.67	8.5	11.075	12.14
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	4	0.65	0.725	1.1	0.5	0.083	0.287	**	**	**	**
00400p	PH (STANDARD UNITS)	08/13/74-01/09/95	9	6.8	7.011	8.3	6.5	0.279	0.528	6.5	6.7	7.1	8.3
00400p	CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	9	6.8	6.849	8.3	6.5	0.308	0.555	6.5	6.7	7.1	8.3
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	9	0.158	0.142	0.316	0.005	0.009	0.092	0.005	0.079	0.2	0.316
00403	PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	10	6.85	6.87	7.3	6.7	0.04	0.2	6.7	6.7	6.95	7.28
00403	CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	10	6.847	6.835	7.3	6.7	0.042	0.204	6.7	6.7	6.95	7.28
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	10	0.142	0.146	0.2	0.05	0.003	0.054	0.053	0.114	0.2	0.2
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	10	8.	7.7	9.	5.	1.344	1.16	5.2	7.	8.25	9.
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	9	9.	8.889	13.	5.	8.361	2.892	5.	6.	11.5	13.
00500p	RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	10	45.5	45.8	79.	14.	324.4	18.011	15.8	33.5	58.25	77.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	10	9.5	11.1	30.	2.	85.433	9.243	2.1	4.5	14.5	29.5
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	3	0.07	0.063	0.09	0.03	0.001	0.031	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	3	0.2	0.267	0.4	0.2	0.013	0.115	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	3	0.24	0.277	0.39	0.2	0.01	0.1	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	3	0.05	0.057	0.09	0.03	0.001	0.031	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	10	170.	194.	420.	70.	11604.444	107.724	71.	110.	260.	407.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	10	2.224	2.227	2.623	1.845	0.061	0.247	1.851	2.035	2.414	2.607
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			168.499								

** - Less 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 GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	02/15/83-01/09/95	12	100.	85.25	150.	3.	1249.841	35.353	20.1	63.75	100.	135.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	12	11.5	12.5	22.	3.	43.545	6.599	3.6	6.	19.	22.
00064	DEPTH OF STREAM, MEAN (FT)	02/15/83-01/09/95	12	3.	6.792	50.	2.	185.384	13.616	2.	2.625	3.375	36.05
00065	STAGE, STREAM (FEET)	09/23/75-09/09/93	5	2.3	2.388	3.3	1.7	0.37	0.608	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	11	2.1	5.718	40.	1.2	130.408	11.42	1.22	1.4	3.8	32.9
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	11	32.	30.	42.	13.	107.4	10.363	13.	24.	39.	42.
00300p	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	12	9.9	10.158	12.8	8.5	1.79	1.338	8.56	9.075	11.45	12.44
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	4	0.9	0.9	1.4	0.4	0.173	0.416	**	**	**	**
00400p	PH (STANDARD UNITS)	08/13/74-01/09/95	9	6.7	6.833	7.8	6.5	0.15	0.387	6.5	6.6	6.9	7.8

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Annual Analysis for 1987 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	9	6.7	6.738	7.8	6.5	0.16	0.4	6.5	6.6	6.9	7.8
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	9	0.2	0.183	0.316	0.016	0.008	0.088	0.016	0.126	0.251	0.316
00403	PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	10	6.75	6.75	6.8	6.7	0.003	0.053	6.7	6.7	6.8	6.8
00403	CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	10	6.747	6.747	6.8	6.7	0.003	0.053	6.7	6.7	6.8	6.8
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	10	0.179	0.179	0.2	0.158	0.	0.022	0.158	0.158	0.2	0.2
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	10	7.5	8.	11.	5.	4.222	2.055	5.1	6.75	10.25	11.
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	8	9.5	9.	11.	6.	3.429	1.852	**	**	**	**
00500p	RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	12	43.5	45.833	86.	31.	188.879	13.743	33.1	38.5	45.75	76.1
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	12	9.	11.333	42.	1.	114.606	10.705	1.9	5.	12.75	34.8
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	3	0.03	0.037	0.06	0.02	0.	0.021	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	3	0.2	0.2	0.3	0.1	0.01	0.1	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	3	0.19	0.18	0.23	0.12	0.003	0.056	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	3	0.02	0.023	0.04	0.01	0.	0.015	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	2	325.	325.	380.	270.	6050.	77.782	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	2	2.506	2.506	2.58	2.431	0.011	0.105	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			320.312								

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Annual Analysis for 1988 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	02/15/83-01/09/95	11	60.	66.364	100.	40.	425.455	20.627	41.	50.	75.	100.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	11	12.	11.636	22.	3.	50.655	7.117	3.2	4.	19.	21.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	6	823.5	768.5	969.	374.	43049.9	207.485	**	**	**	**
00064	DEPTH OF STREAM, MEAN (FT)	02/15/83-01/09/95	11	3.	3.455	4.5	3.	0.323	0.568	3.	3.	4.	4.4
00065	STAGE, STREAM (FEET)	09/23/75-09/09/93	6	2.07	1.982	2.15	1.52	0.057	0.238	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	11	3.1	4.564	12.	1.4	9.635	3.104	1.46	2.6	6.5	11.02
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	8	35.	31.125	45.	16.	117.839	10.855	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	11	10.4	10.4	11.9	8.7	1.48	1.217	8.7	9.3	11.6	11.88
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	10	0.9	0.79	1.2	0.3	0.101	0.318	0.31	0.475	1.1	1.19
00400p	PH (STANDARD UNITS)	08/13/74-01/09/95	10	6.75	6.75	7.2	6.3	0.085	0.292	6.31	6.475	6.95	7.19
00400p	CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	10	6.747	6.664	7.2	6.3	0.093	0.305	6.31	6.475	6.95	7.19
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	10	0.179	0.217	0.501	0.063	0.021	0.144	0.065	0.114	0.337	0.491
00403	PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	11	6.8	6.809	7.1	6.5	0.027	0.164	6.54	6.7	6.9	7.08
00403	CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	11	6.8	6.781	7.1	6.5	0.028	0.167	6.54	6.7	6.9	7.08
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	11	0.158	0.166	0.316	0.079	0.004	0.064	0.084	0.126	0.2	0.293
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	10	9.	8.38	13.	0.8	9.711	3.116	1.42	7.75	10.	12.7
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	9	8.	9.111	15.	7.	6.361	2.522	7.	7.5	10.	15.
00500p	RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	11	46.	47.091	75.	22.	193.691	13.917	24.4	39.	58.	71.6
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	11	7.	8.364	20.	1.	36.055	6.005	1.4	3.	12.	19.4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	3	0.04	0.033	0.05	0.01	0.	0.021	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	3	0.2	0.167	0.2	0.1	0.003	0.058	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	3	0.21	0.237	0.38	0.12	0.017	0.132	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	3	0.04	0.04	0.06	0.02	0.	0.02	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	10	90.	98.5	310.	5.	9200.278	95.918	5.5	10.	142.5	297.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	10	1.952	1.705	2.491	0.699	0.382	0.618	0.729	1.	2.149	2.468
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			50.742								

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Annual Analysis for 1989 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	02/15/83-01/09/95	14	75.	113.571	200.	50.	4524.725	67.266	55.	60.	200.	200.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	13	14.	10.808	20.	0.5	62.647	7.915	0.7	2.5	18.5	19.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	11	1930.	2031.818	3270.	1270.	325436.364	570.47	1336.	1610.	2310.	3150.
00064	DEPTH OF STREAM, MEAN (FT)	02/15/83-01/09/95	13	4.	4.346	10.	2.5	3.891	1.973	2.7	3.	5.	8.
00065	STAGE, STREAM (FEET)	09/23/75-09/09/93	11	3.05	3.106	3.93	2.57	0.156	0.395	2.614	2.8	3.32	3.856
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	14	4.6	6.693	20.	2.5	34.162	5.845	2.5	3.45	7.125	20.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	9	22.	22.667	28.	20.	5.75	2.398	20.	21.	23.5	28.
00300p	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	14	11.	11.107	14.3	7.9	5.33	2.309	8.3	9.075	13.25	14.3
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	6	0.6	0.7	1.4	0.4	0.124	0.352	**	**	**	**
00400p	PH (STANDARD UNITS)	08/13/74-01/09/95	13	7.	6.835	7.61	5.82	0.311	0.558	5.82	6.55	7.05	7.61
00400p	CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	13	7.	6.464	7.61	5.82	0.461	0.679	5.82	6.55	7.05	7.61
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	13	0.1	0.344	1.514	0.025	0.284	0.532	0.025	0.09	0.33	1.514
00403	PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	5	7.1	6.98	7.1	6.8	0.027	0.164	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	5	7.1	6.954	7.1	6.8	0.028	0.167	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	5	0.079	0.111	0.158	0.079	0.002	0.043	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	5	8.	8.	8.	8.	0.	0.	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	9	8.	8.222	11.	5.	3.444	1.856	5.	7.	9.5	11.
00500p	RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	14	47.	45.786	80.	23.	285.412	16.894	23.	31.75	57.	73.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	14	9.	10.929	41.	1.	124.533	11.159	1.	2.	12.75	34.

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Annual Analysis for 1990 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	02/15/83-01/09/95	14	75.	108.929	200.	60.	3604.533	60.038	60.	75.	200.	200.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	14	11.	10.214	22.	1.	55.104	7.423	1.	1.	15.75	21.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	11	1580.	1669.545	4700.	608.	1305827.673	1142.728	647.4	823.	2060.	4208.
00064	DEPTH OF STREAM, MEAN (FT)	02/15/83-01/09/95	14	3.25	3.75	5.	3.	0.798	0.893	3.	3.	5.	5.
00065	STAGE, STREAM (FEET)	09/23/75-09/09/93	11	2.46	2.68	4.71	1.84	0.672	0.82	1.884	2.08	3.14	4.422
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	14	5.5	5.064	7.	1.5	2.512	1.585	2.	3.975	6.125	6.75
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	9	24.	21.778	32.	5.	57.694	7.596	5.	19.	26.5	32.
00300p	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	14	11.3	11.614	16.8	8.5	7.797	2.792	8.5	9.2	13.8	16.8
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	4	0.7	0.85	1.5	0.5	0.203	0.451	**	**	**	**
00400p	PH (STANDARD UNITS)	08/13/74-01/09/95	14	6.85	6.57	7.3	5.23	0.491	0.701	5.23	5.91	7.025	7.25
00400p	CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	14	6.847	5.959	7.3	5.23	0.894	0.945	5.23	5.91	7.025	7.25
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	14	0.142	1.1	5.888	0.05	4.276	2.068	0.057	0.095	1.23	5.888
00403	PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	5	6.8	6.74	6.9	6.6	0.018	0.134	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	5	6.8	6.723	6.9	6.6	0.018	0.135	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	5	0.158	0.189	0.251	0.126	0.003	0.058	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	3	7.	7.333	8.	7.	0.333	0.577	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	9	8.	8.889	14.	6.	6.111	2.472	6.	7.	10.	14.
00500p	RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	14	40.5	40.929	67.	11.	252.071	15.877	17.5	30.	52.25	64.5
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	14	8.5	7.536	12.	0.5	12.172	3.489	0.75	6.	10.	12.

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Annual Analysis for 1991 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	02/15/83-01/09/95	10	275.	199.5	275.	75.	9669.167	98.332	75.	75.	275.	275.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	10	17.5	15.7	23.	2.	39.567	6.29	2.8	12.25	19.75	22.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	11	1490.	2562.091	9330.	732.	6049823.691	2459.639	757.8	1060.	3280.	8176.
00064	DEPTH OF STREAM, MEAN (FT)	02/15/83-01/09/95	10	2.	3.1	5.	2.	2.1	1.449	2.	2.	5.	5.
00065	STAGE, STREAM (FEET)	09/23/75-09/09/93	11	2.7	3.285	6.83	1.98	1.936	1.392	2.008	2.32	3.94	6.284

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Annual Analysis for 1991 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	10	5.	19.7	125.	2.	1409.567	37.544	2.	3.5	16.25	114.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	9	27.	29.111	47.	12.	84.361	9.185	12.	26.	33.	47.
00300p	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	10	8.85	9.59	13.3	8.3	2.494	1.579	8.31	8.55	10.475	13.07
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	3	0.4	0.5	0.7	0.4	0.03	0.173	**	**	**	**
00400p	PH (STANDARD UNITS)	08/13/74-01/09/95	9	6.8	6.944	8.4	6.	0.435	0.66	6.	6.65	7.2	8.4
00400p	CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	9	6.8	6.637	8.4	6.	0.542	0.736	6.	6.65	7.2	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	9	0.158	0.231	1.	0.004	0.089	0.299	0.004	0.07	0.225	1.
00403	PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	9	8.	8.333	15.	2.	12.	3.464	2.	7.	10.	15.
00500p	RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	10	51.	98.8	500.	36.	20084.622	141.72	36.6	44.25	74.	458.6
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	10	9.5	52.1	420.	2.	16836.1	129.754	2.	2.75	24.	381.9
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	2	155.	155.	230.	80.	11250.	106.066	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	2	2.132	2.132	2.362	1.903	0.105	0.324	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			135.647								

** - Less 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 GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	02/15/83-01/09/95	11	275.	275.	275.	275.	0.	0.	275.	275.	275.	275.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	12	14.	13.667	21.	7.	28.061	5.297	7.	8.25	19.	20.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	13	1360.	1624.923	3180.	814.	533168.41	730.184	900.4	1055.	2130.	3020.
00064	DEPTH OF STREAM, MEAN (FT)	02/15/83-01/09/95	11	2.	2.182	4.	2.	0.364	0.603	2.	2.	2.	3.6
00065	STAGE, STREAM (FEET)	09/23/75-09/09/93	13	2.59	2.765	3.88	2.07	0.311	0.558	2.158	2.315	3.195	3.78
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	12	3.9	4.608	13.	0.5	11.404	3.377	0.8	2.2	5.425	11.65
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	12	24.5	25.333	31.	22.	7.152	2.674	22.3	23.25	27.	30.4
00300p	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	12	9.7	9.675	11.2	8.3	1.115	1.056	8.3	8.7	10.825	11.14
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	4	0.55	0.525	0.6	0.4	0.009	0.096	**	**	**	**
00400p	PH (STANDARD UNITS)	08/13/74-01/09/95	12	6.55	6.642	7.6	5.9	0.243	0.493	5.93	6.325	7.025	7.48
00400p	CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	12	6.547	6.423	7.6	5.9	0.295	0.543	5.93	6.325	7.025	7.48
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	12	0.284	0.377	1.259	0.025	0.146	0.383	0.037	0.099	0.475	1.181
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	12	7.	7.667	16.	3.	12.606	3.551	3.	5.5	9.5	14.5
00500p	RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	12	40.5	42.417	53.	28.	52.992	7.28	30.7	38.	49.5	52.4
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	12	5.	8.5	24.	2.	48.091	6.935	2.3	3.25	11.75	22.5

** - 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 1993 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	02/15/83-01/09/95	8	275.	253.125	275.	100.	3828.125	61.872	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	10	11.	12.9	26.	4.	62.1	7.88	4.1	5.75	20.	25.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	8	1455.	1571.5	2920.	642.	719486.857	848.226	**	**	**	**
00064	DEPTH OF STREAM, MEAN (FT)	02/15/83-01/09/95	8	2.	2.125	3.	2.	0.125	0.354	**	**	**	**
00065	STAGE, STREAM (FEET)	09/23/75-09/09/93	8	2.675	2.704	3.72	1.88	0.451	0.671	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	10	3.4	8.23	36.	1.9	112.665	10.614	1.9	2.35	10.95	33.9
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	10	26.5	28.9	41.	23.	32.544	5.705	23.2	25.	33.5	40.4

** - 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 1993 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00300p	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	10	9.6	9.57	11.4	7.6	1.849	1.36	7.64	8.45	10.825	11.35
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	2	0.5	0.5	0.8	0.2	0.18	0.424	**	**	**	**
00400p	PH (STANDARD UNITS)	08/13/74-01/09/95	9	6.7	6.767	7.4	6.4	0.1	0.316	6.4	6.55	7.	7.4
00400p	CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	9	6.7	6.685	7.4	6.4	0.108	0.328	6.4	6.55	7.	7.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	9	0.2	0.207	0.398	0.04	0.013	0.114	0.04	0.103	0.284	0.398
00403	PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	8	6.5	6.625	10.	3.	5.696	2.387	**	**	**	**
00500p	RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	6	47.5	47.	65.	29.	166.8	12.915	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	10	8.	15.4	54.	4.	253.6	15.925	4.	4.75	24.25	51.4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	5	0.05	0.084	0.25	0.03	0.009	0.093	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	5	0.2	0.32	0.8	0.1	0.077	0.277	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	5	0.19	0.184	0.23	0.13	0.002	0.043	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	5	0.05	0.054	0.09	0.03	0.	0.022	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	7	9.	9.643	25.	0.5	93.726	9.681	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	7	0.954	0.63	1.398	-0.301	0.496	0.705	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			4.265								

** - Less 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 1994 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	02/15/83-01/09/95	11	275.	275.	275.	275.	0.	0.	275.	275.	275.	275.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	11	14.	14.636	21.	3.	31.855	5.644	3.8	13.	19.	20.8
00064	DEPTH OF STREAM, MEAN (FT)	02/15/83-01/09/95	11	2.	2.	2.	2.	0.	0.	2.	2.	2.	2.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	11	2.6	3.518	8.1	1.3	5.878	2.424	1.34	1.9	5.6	8.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	11	23.	22.364	26.	15.	11.855	3.443	15.4	22.	24.	26.
00300p	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	11	9.5	9.545	11.3	8.4	0.975	0.987	8.42	8.6	10.5	11.22
00400p	PH (STANDARD UNITS)	08/13/74-01/09/95	11	7.	7.	8.1	6.2	0.26	0.51	6.28	6.7	7.2	8.
00400p	CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	11	7.	6.785	8.1	6.2	0.311	0.557	6.28	6.7	7.2	8.
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	11	0.1	0.164	0.631	0.008	0.03	0.172	0.011	0.063	0.2	0.555
00403	PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	2	6.85	6.85	7.2	6.5	0.245	0.495	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	2	6.722	6.722	7.2	6.5	0.278	0.527	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	2	0.19	0.19	0.316	0.063	0.032	0.179	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	11	5.	6.364	20.	2.	25.855	5.085	2.2	4.	6.	18.2
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	10	0.03	0.032	0.04	0.01	0.	0.009	0.012	0.03	0.04	0.04
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	10	0.2	0.2	0.3	0.1	0.004	0.067	0.1	0.175	0.225	0.3
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	10	0.115	0.279	1.8	0.05	0.287	0.536	0.051	0.082	0.163	1.64
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	10	0.01	0.017	0.05	0.005	0.	0.014	0.005	0.009	0.023	0.048
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	11	3.	38.182	240.	0.5	5579.864	74.698	0.5	0.5	44.	214.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	11	0.477	0.689	2.38	-0.301	0.989	0.994	-0.301	-0.301	1.643	2.312
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			4.891								

** - Less 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 1995 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	02/15/83-01/09/95	1	275.	275.	275.	275.	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00064	DEPTH OF STREAM, MEAN (FT)	02/15/83-01/09/95	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	1	2.6	2.6	2.6	2.6	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

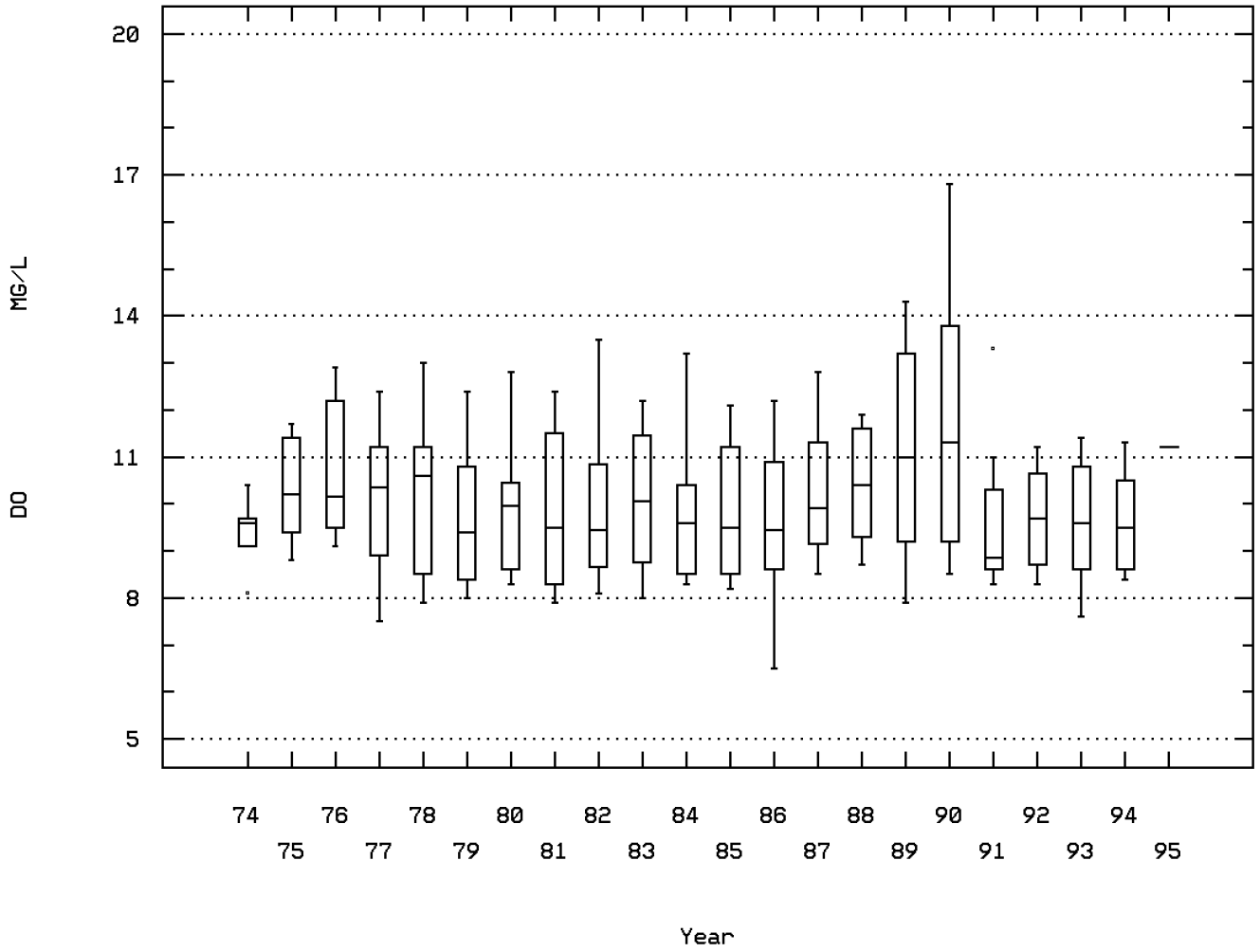
Annual Analysis for 1995 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	1	11.2	11.2	11.2	11.2	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	08/13/74-01/09/95	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	1	0.126	0.126	0.126	0.126	0.	0.	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	1	5.	5.	5.	5.	0.	0.	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	1	1.	1.	1.	1.	0.	0.	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.								

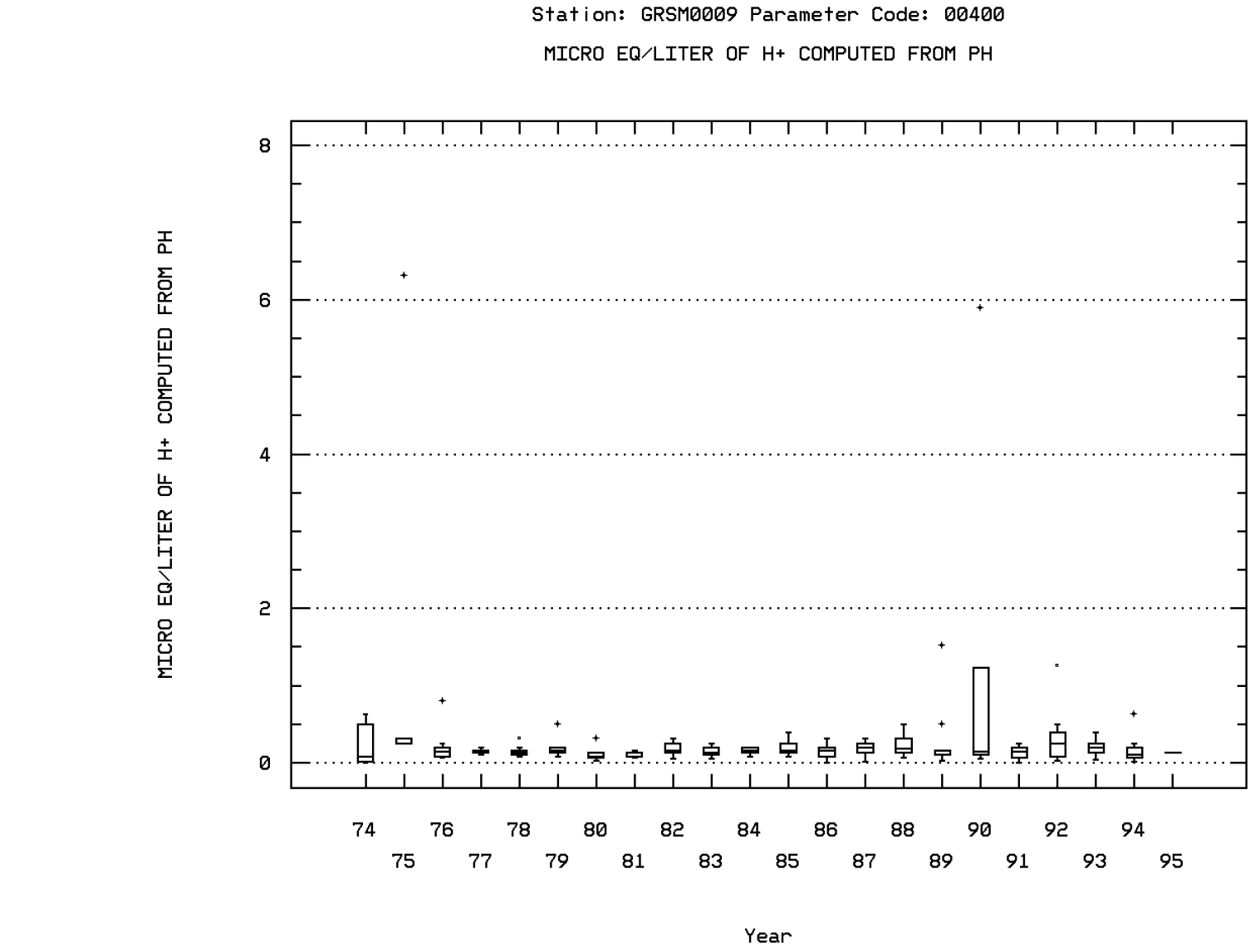
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: GRSM0009 Parameter Code: 00300

OXYGEN, DISSOLVED



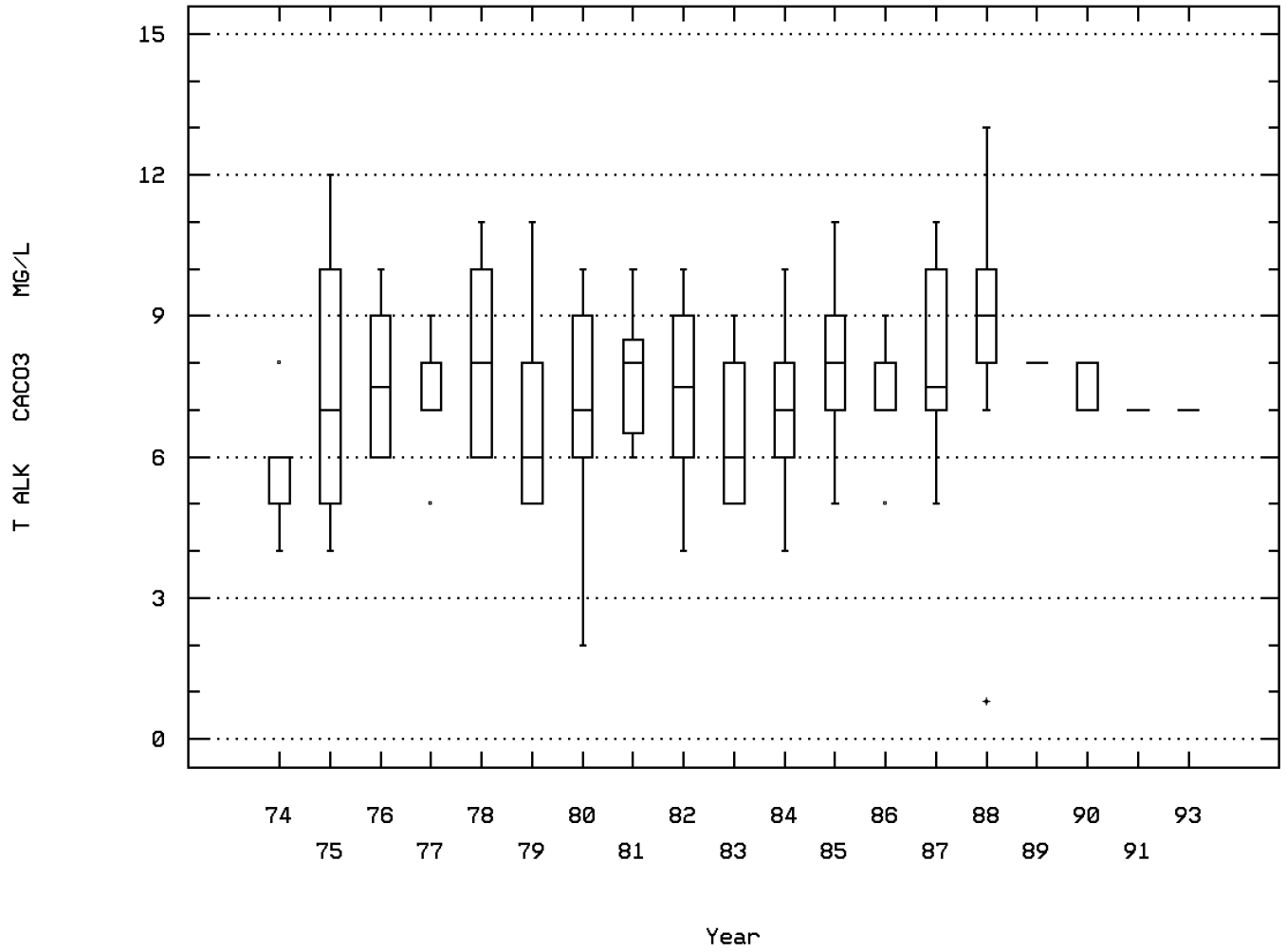
TUCKASEGEE RIVER AT BRYSON CITY



TUCKASEGEE RIVER AT BRYSON CITY

Station: GRSM0009 Parameter Code: 00410

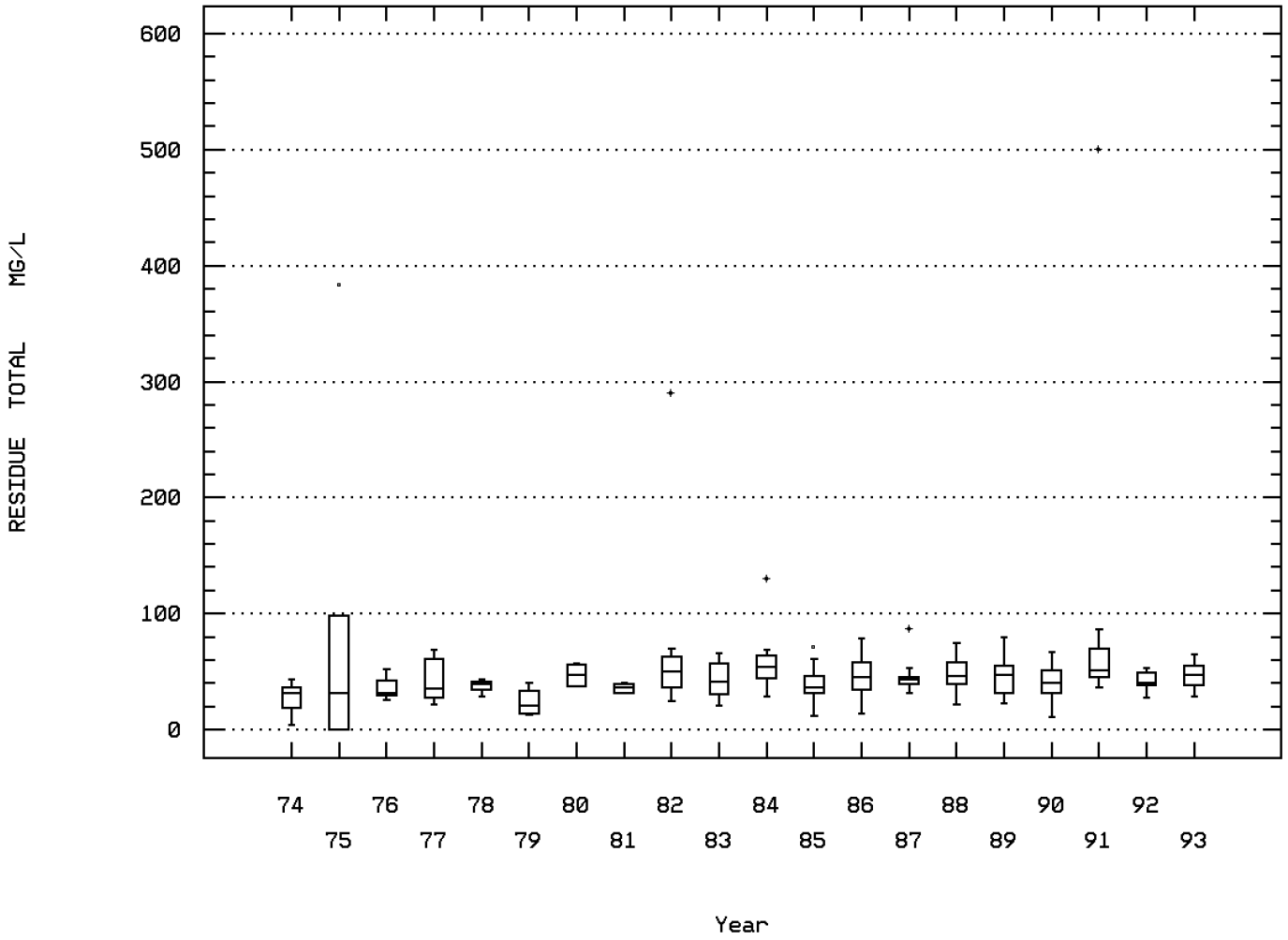
ALKALINITY, TOTAL (MG/L AS CACO3)



TUCKASEGEE RIVER AT BRYSON CITY

Station: GRSM0009 Parameter Code: 00500

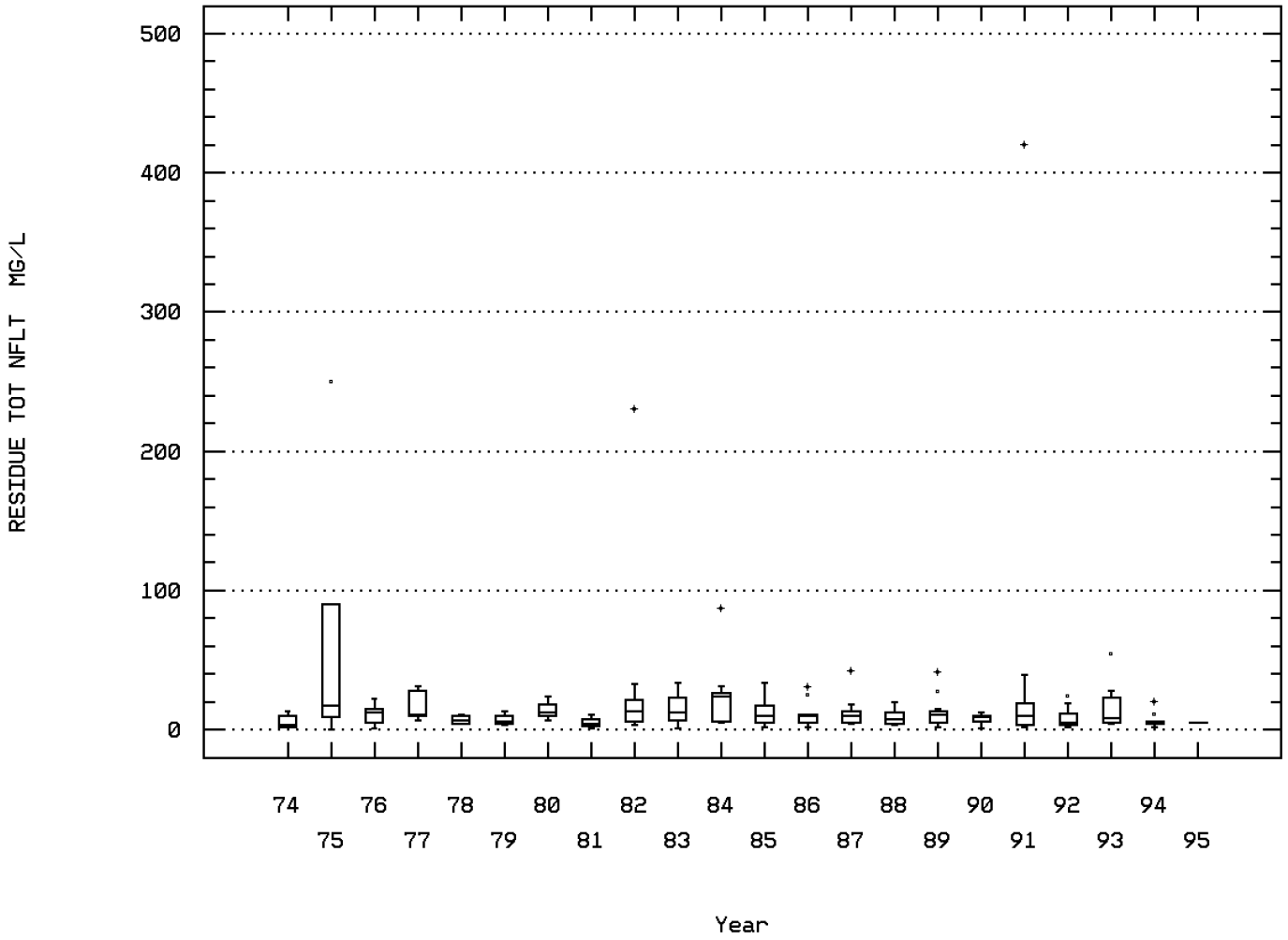
RESIDUE, TOTAL (MG/L)



TUCKASEGEE RIVER AT BRYSON CITY

Station: GRSM0009 Parameter Code: 00530

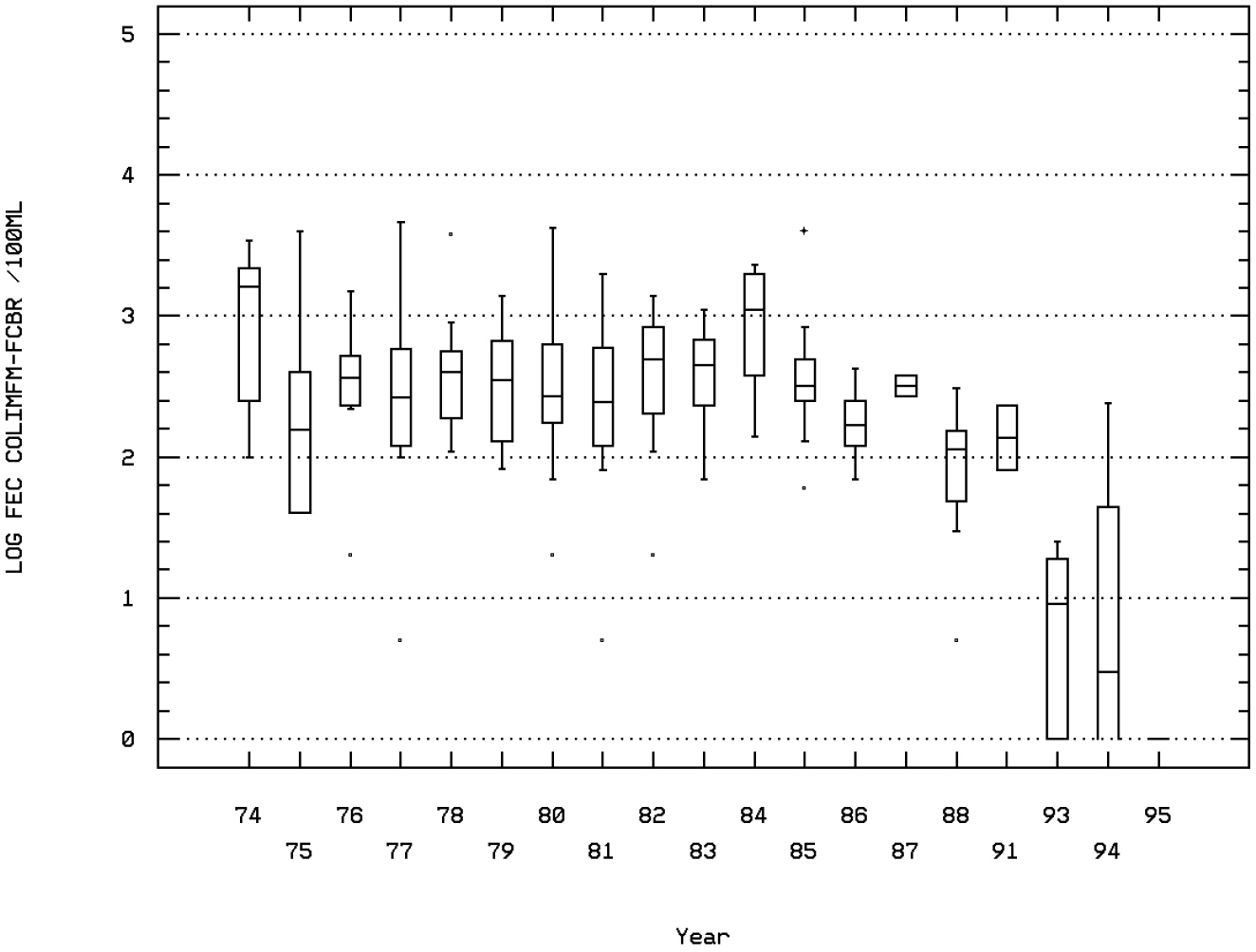
RESIDUE, TOTAL NONFILTRABLE (MG/L)



TUCKASEGEE RIVER AT BRYSON CITY

Station: GRSM0009 Parameter Code: 31616

LOG FECAL COLIFORM,MEMBR FILTER,M-FC BR



TUCKASEGEE RIVER AT BRYSON CITY

Seasonal Analysis for Season #1: 10/01 to 3/31 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	02/15/83-01/09/95	50	200.	179.48	275.	45.	7978.459	89.322	60.	75.	275.	275.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	112	8.	7.656	18.	-1.	18.68	4.322	2.	5.	10.75	13.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	80	1550.	1833.513	9330.	355.	2035572.835	1426.735	662.6	939.	2232.5	3243.
00064	DEPTH OF STREAM, MEAN (FT)	02/15/83-01/09/95	49	3.	3.333	10.	2.	2.418	1.555	2.	2.	4.9	5.
00065	STAGE, STREAM (FEET)	09/23/75-09/09/93	82	2.73	2.845	6.83	1.49	0.838	0.915	1.909	2.2	3.255	3.908
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	85	4.	8.588	130.	0.5	396.57	19.914	1.5	2.	6.	12.4
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	63	26.	26.079	42.	5.	54.074	7.354	16.4	22.	30.	35.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/18/74-02/14/90	35	22.	53.114	920.	4.	23149.692	152.15	13.4	20.	28.	57.4
00300	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	113	11.1	11.224	16.8	8.4	2.169	1.473	9.54	10.25	12.	13.2
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-09/05/85	39	93.	92.782	106.	80.	35.092	5.924	86.	88.	96.	102.
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	76	0.6	0.589	1.5	0.1	0.084	0.289	0.2	0.4	0.8	0.93
00340	COD, .25N K2CR2O7 MG/L	01/02/75-04/16/81	32 ##	5.	6.25	15.	5.	8.871	2.978	5.	5.	5.	12.5
00400	PH (STANDARD UNITS)	08/13/74-01/09/95	101	6.7	6.699	7.8	5.2	0.203	0.45	6.06	6.5	6.9	7.1
00400	CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	101	6.7	6.36	7.8	5.2	0.319	0.565	6.06	6.5	6.9	7.1
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	101	0.2	0.436	6.31	0.016	1.055	1.027	0.079	0.126	0.316	0.9
00403	PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	63	6.8	6.767	7.1	6.5	0.02	0.141	6.6	6.7	6.8	7.
00403	CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	63	6.8	6.745	7.1	6.5	0.02	0.143	6.6	6.7	6.8	7.
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	63	0.158	0.18	0.316	0.079	0.003	0.057	0.1	0.158	0.2	0.251
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	82	7.	6.988	13.	1.	4.062	2.015	5.	6.	8.	10.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/13/74-01/11/90	22	0.	3.227	25.	0.	55.898	7.477	0.	0.	1.5	20.2
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	61	7.	7.443	28.	2.	13.417	3.663	4.	5.5	8.5	10.8
00500	RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	93	38.	47.839	500.	0.025	3257.498	57.074	23.4	29.5	49.5	61.6
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	99	5.	16.47	420.	0.025	2375.195	48.736	2.	3.	12.	26.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	51 ##	0.025	0.04	0.25	0.01	0.002	0.046	0.025	0.025	0.04	0.076
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	51	0.1	0.174	0.8	0.05	0.023	0.151	0.05	0.1	0.2	0.3
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	50	0.18	0.203	0.97	0.05	0.02	0.142	0.071	0.12	0.23	0.376
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	50 ##	0.025	0.043	0.42	0.005	0.004	0.062	0.02	0.025	0.043	0.089
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/02/75-01/09/95	40	8.	17.95	410.	4.	4049.074	63.632	6.	6.	9.	11.
01002	ARSENIC, TOTAL (UG/L AS AS)	01/02/75-11/17/94	52 ##	5.	5.923	20.	5.	10.19	3.192	5.	5.	5.	8.5
01027	CADMIUM, TOTAL (UG/L AS CD)	01/02/75-11/17/94	53 ##	10.	13.377	50.	1.	145.855	12.077	1.	1.	25.	25.
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/23/75-11/17/94	53 ##	25.	19.387	25.	2.5	43.727	6.613	12.5	12.5	25.	25.
01037	COBALT, TOTAL (UG/L AS CO)	01/02/75-12/21/89	17 ##	50.	47.059	50.	25.	68.934	8.303	25.	50.	50.	50.
01042	COPPER, TOTAL (UG/L AS CU)	01/02/75-11/17/94	54 ##	10.	12.241	60.	1.	108.715	10.427	1.	4.75	20.	20.
01045	IRON, TOTAL (UG/L AS FE)	01/02/75-11/17/94	30	300.	342.067	1100.	8.	55877.375	236.384	72.	177.5	477.5	699.
01051	LEAD, TOTAL (UG/L AS PB)	01/02/75-11/17/94	53 ##	50.	35.943	200.	5.	1146.208	33.856	5.	5.	50.	50.
01055	MANGANESE, TOTAL (UG/L AS MN)	01/02/75-11/17/94	25 ##	25.	31.61	250.	0.25	2146.907	46.335	11.2	21.5	25.	35.
01067	NICKEL, TOTAL (UG/L AS NI)	09/23/75-11/17/94	43 ##	25.	29.186	50.	5.	432.06	20.786	5.	5.	50.	50.
01092	ZINC, TOTAL (UG/L AS ZN)	01/02/75-11/17/94	53 ##	10.	25.311	320.	0.5	2580.656	50.8	5.	5.	25.	25.
01105	ALUMINUM, TOTAL (UG/L AS AL)	09/23/75-11/17/94	21	200.	364.571	2100.	50.	210452.457	458.751	58.	104.	400.	800.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	79	140.	300.766	2300.	0.5	194143.685	440.617	5.	40.	320.	690.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	79	2.146	1.982	3.362	-0.301	0.759	0.871	0.699	1.602	2.505	2.839
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			96.016								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/23/76-06/18/91	27 ##	0.025	0.019	0.025	0.005	0.	0.009	0.005	0.005	0.025	0.025
71900	MERCURY, TOTAL (UG/L AS HG)	01/02/75-11/17/94	48 ##	0.1	0.164	0.3	0.1	0.006	0.076	0.1	0.1	0.25	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

Seasonal Analysis for Season #2: 4/01 to 9/30 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	02/15/83-01/09/95	44	87.5	150.068	275.	3.	10315.321	101.564	60.	75.	275.	275.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	118	19.	18.072	26.	8.	14.57	3.817	11.9	16.	21.	22.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	88	1205.	1387.227	4110.	484.	549169.557	741.06	641.2	825.5	1832.5	2329.
00064	DEPTH OF STREAM, MEAN (FT)	02/15/83-01/09/95	44	3.	3.886	50.	2.	51.301	7.162	2.	2.	3.	4.25
00065	STAGE, STREAM (FEET)	09/23/75-09/09/93	93	2.45	2.554	4.48	0.98	0.408	0.639	1.868	2.075	3.005	3.398
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	85	5.2	9.627	130.	1.3	278.974	16.703	2.56	3.7	8.75	17.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	74	25.	26.946	47.	13.	35.641	5.97	21.	23.75	30.25	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: 4/01 to 9/30 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/18/74-02/14/90	26	23.	25.692	60.	15.	74.542	8.634	20.	20.	30.	32.2
00300	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	118	8.85	8.973	12.9	6.5	0.734	0.857	8.	8.4	9.5	10.01
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-09/05/85	44	91.65	94.311	116.	85.	45.604	6.753	87.	90.	99.75	103.
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	80	0.8	0.855	2.8	0.2	0.18	0.425	0.4	0.5	1.075	1.4
00340	COD, .25N K2CR2O7 MG/L	01/02/75-04/16/81	31 ##	5.	7.935	51.	5.	76.796	8.763	5.	5.	5.	13.8
00400	PH (STANDARD UNITS)	08/13/74-01/09/95	109	6.9	6.949	8.65	6.1	0.148	0.384	6.6	6.8	7.1	7.3
00400	CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	109	6.9	6.826	8.65	6.1	0.163	0.404	6.6	6.8	7.1	7.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	109	0.126	0.149	0.794	0.002	0.014	0.12	0.05	0.079	0.158	0.251
00403	PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	55	6.9	6.858	7.3	6.6	0.026	0.162	6.66	6.7	7.	7.1
00403	CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	55	6.9	6.83	7.3	6.6	0.027	0.164	6.66	6.7	7.	7.1
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	55	0.126	0.148	0.251	0.05	0.003	0.052	0.079	0.1	0.2	0.22
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	84	8.	7.688	12.	0.8	2.876	1.696	6.	7.	9.	10.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/13/74-01/11/90	30	0.	0.017	0.5	0.	0.008	0.091	0.	0.	0.	0.
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	71	8.	8.662	17.	5.	5.198	2.28	6.	7.	10.	10.8
00500	RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	88	46.5	50.864	383.	4.	1502.487	38.762	29.9	38.25	58.	67.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	97	11.	15.871	250.	0.5	653.538	25.564	4.	7.	19.	27.2
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	53 ##	0.025	0.029	0.07	0.01	0.	0.012	0.02	0.025	0.03	0.05
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	53	0.2	0.206	0.6	0.05	0.011	0.104	0.1	0.1	0.2	0.3
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	53	0.14	0.178	1.8	0.025	0.054	0.232	0.09	0.11	0.185	0.22
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	53	0.025	0.047	0.46	0.005	0.004	0.063	0.02	0.025	0.05	0.07
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/02/75-01/09/95	35	8.	7.657	14.	4.	4.761	2.182	5.2	6.	8.	10.4
01002	ARSENIC, TOTAL (UG/L AS AS)	01/02/75-11/17/94	46 ##	5.	6.087	30.	5.	18.792	4.335	5.	5.	5.	6.5
01027	CADMIUM, TOTAL (UG/L AS CD)	01/02/75-11/17/94	47 ##	5.	11.17	25.	1.	119.144	10.915	1.	1.	25.	25.
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/23/75-11/17/94	47 ##	25.	21.117	130.	12.5	302.394	17.389	12.5	12.5	25.	25.
01037	COBALT, TOTAL (UG/L AS CO)	01/02/75-12/21/89	12 ##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01042	COPPER, TOTAL (UG/L AS CU)	01/02/75-11/17/94	47 ##	10.	89.	3600.	1.	273991.739	523.442	1.	3.	20.	23.
01045	IRON, TOTAL (UG/L AS FE)	01/02/75-11/17/94	25	540.	1369.6	20000.	190.	15175279.	3895.546	200.	290.	815.	1260.
01051	LEAD, TOTAL (UG/L AS PB)	01/02/75-11/17/94	47 ##	25.	29.787	100.	5.	571.693	23.91	5.	5.	50.	50.
01055	MANGANESE, TOTAL (UG/L AS MN)	01/02/75-11/17/94	17 ##	25.	71.765	540.	25.	15299.816	123.692	25.	25.	60.	196.
01067	NICKEL, TOTAL (UG/L AS NI)	09/23/75-11/17/94	40 ##	25.	37.375	300.	5.	3284.599	57.311	5.	5.	50.	50.
01092	ZINC, TOTAL (UG/L AS ZN)	01/02/75-11/17/94	47 ##	10.	212.851	9000.	5.	1715921.695	1309.932	5.	5.	25.	100.
01105	ALUMINUM, TOTAL (UG/L AS AL)	09/23/75-11/17/94	19	500.	1517.368	19000.	100.	18052042.69	4248.77	190.	260.	870.	1500.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	90	385.	756.956	4600.	0.5	1031212.419	1015.486	46.6	187.5	855.	1980.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	90	2.585	2.492	3.663	-0.301	0.566	0.752	1.664	2.273	2.932	3.296
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			310.803								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/23/76-06/18/91	30 ##	0.025	0.017	0.025	0.005	0.	0.009	0.005	0.005	0.025	0.025
71900	MERCURY, TOTAL (UG/L AS HG)	01/02/75-11/17/94	45 ##	0.1	0.347	5.4	0.1	0.71	0.843	0.1	0.1	0.25	0.48

** - Less 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: GRSM0010

NPS Station ID: GRSM0010
LAT/LON: 35.427781/ -83.447504
Agency: 112WRD
Date Created: / /
Location: TUCKASEGEE RIVER AT BRYSON CITY, N. C.
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03513000
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010203008
RF1 Mile Point: 5.250
Distance from RF1: 0.80
On/Off RF1: OFF
RF3 Index: 06010202008500.00
RF3 Mile Point: 2.05
Distance from RF3: 0.10
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/70-10/02/72	12	12.25	12.725	22.1	3.	34.824	5.901	3.6	9.	18.275	21.32
00060	FLOW, STREAM, MEAN DAILY CFS	10/18/57-10/02/72	70	1285.	1509.557	5610.	500.	874229.062	935.002	704.2	884.5	1915.	2506.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/19/56-01/04/82	32	3320.	5191.313	19100.	524.	25446277.577	5044.43	746.6	1360.	8500.	13790.
00080	COLOR (PLATINUM-COBALT UNITS)	10/19/56-05/09/72	70	30.	44.214	240.	1.	2013.533	44.872	5.	10.	60.	109.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/56-05/09/72	70	41.5	52.429	160.	19.	886.335	29.771	24.	31.75	68.25	99.4
00400	PH (STANDARD UNITS)	10/19/56-05/09/72	70	6.2	6.174	7.2	4.6	0.24	0.49	5.71	6.	6.4	6.8
00400	CONVERTED PH (STANDARD UNITS)	10/19/56-05/09/72	70	6.2	5.768	7.2	4.6	0.407	0.638	5.71	6.	6.4	6.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/56-05/09/72	70	0.631	1.705	25.119	0.063	16.976	4.12	0.158	0.398	1.	1.954
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/06/70-05/09/72	10	2.	3.7	8.	1.	6.456	2.541	1.1	2.	6.25	7.9
00440	BICARBONATE ION (MG/L AS HCO3)	10/19/56-05/09/72	70	13.	14.914	43.	1.	66.253	8.14	6.1	10.	19.	25.9
00445	CARBONATE ION (MG/L AS CO3)	11/06/70-05/09/72	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	11/06/70-05/09/72	9	0.53	0.583	1.1	0.2	0.079	0.281	0.2	0.38	0.8	1.1
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	11/06/70-05/09/72	9	1.4	1.522	3.	1.	0.377	0.614	1.	1.1	1.7	3.
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/03/70-05/09/72	9 ##	0.005	0.009	0.02	0.005	0.	0.006	0.005	0.005	0.015	0.02
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/06/70-05/09/72	8	0.185	0.179	0.23	0.12	0.002	0.043	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	11/06/70-11/08/71	5	0.12	0.166	0.4	0.09	0.017	0.132	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/26/71-05/09/72	3	0.09	0.097	0.12	0.08	0.	0.021	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/19/56-05/09/72	70	6.	6.743	10.	5.	1.295	1.138	6.	6.	8.	8.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/19/56-05/09/72	70	0.	0.443	8.	0.	2.047	1.431	0.	0.	0.	1.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/19/56-05/09/72	70	1.9	1.936	2.8	1.	0.154	0.392	1.51	1.675	2.2	2.6
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/56-05/09/72	70	0.5	0.473	1.	0.2	0.031	0.177	0.21	0.3	0.6	0.7
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/19/56-05/09/72	70	5.6	7.331	29.	1.	41.387	6.433	1.3	1.775	10.	17.9
00931	SODIUM ADSORPTION RATIO	11/06/70-05/09/72	10	0.2	0.24	0.3	0.2	0.003	0.052	0.2	0.2	0.3	0.3
00932	SODIUM, PERCENT	11/06/70-05/09/72	10	26.5	26.7	35.	21.	18.233	4.27	21.1	22.75	30.	34.5
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/19/56-05/09/72	70	0.8	0.906	2.3	0.2	0.12	0.346	0.51	0.7	1.125	1.3
00940	CHLORIDE,TOTAL IN WATER MG/L	10/19/56-05/09/72	70	1.	1.44	3.	0.4	0.468	0.684	0.5	1.	2.	2.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/19/56-05/09/72	70	7.	9.174	34.	0.5	60.84	7.8	2.	3.	12.	20.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/19/56-09/24/63	60	0.1	0.082	0.3	0.	0.007	0.085	0.	0.	0.1	0.2
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/19/56-05/09/72	70	7.6	7.681	9.7	5.2	0.765	0.874	6.7	7.1	8.3	8.89
01045	IRON, TOTAL (UG/L AS FE)	10/19/56-11/08/71	52	35.	58.269	760.	0.	11642.044	107.898	0.	20.	60.	128.
01046	IRON, DISSOLVED (UG/L AS FE)	11/06/70-05/09/72	7	110.	110.	170.	40.	2133.333	46.188	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/19/56-05/09/72	70	39.	46.571	137.	19.	711.147	26.667	21.1	26.	56.5	83.9
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/06/70-05/09/72	10	106.5	122.11	191.	72.6	1873.957	43.289	73.48	87.55	174.5	189.5
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/06/70-05/09/72	10	0.04	0.038	0.05	0.03	0.	0.008	0.03	0.03	0.043	0.05
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	02/24/79-02/24/79	1	10.	10.	10.	10.	0.	0.	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	02/24/79-03/21/80	2	14.	14.	16.	12.	8.	2.828	**	**	**	**
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	02/24/79-03/21/80	2	18.5	18.5	19.	18.	0.5	0.707	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	02/24/79-03/21/80	2	26.	26.	29.	23.	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 time series plot

Parameter Inventory for Station: GRSM0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	02/24/79-03/21/80	2	35.5	35.5	41.	30.	60.5	7.778	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	02/24/79-03/21/80	2	48.5	48.5	59.	38.	220.5	14.849	**	**	**	**
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	02/24/79-03/21/80	2	70.	70.	74.	66.	32.	5.657	**	**	**	**
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	02/24/79-03/21/80	2	92.	92.	93.	91.	2.	1.414	**	**	**	**
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	03/21/80-03/21/80	1	98.	98.	98.	98.	0.	0.	**	**	**	**
70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	03/21/80-03/21/80	1	100.	100.	100.	100.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/19/56-09/25/62	49	0.5	0.657	2.1	0.	0.185	0.43	0.2	0.35	0.9	1.3
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/24/61-09/24/63	22	0.8	0.805	1.7	0.	0.2	0.448	0.26	0.5	1.025	1.61
71885	IRON (UG/L AS FE)	10/24/61-09/24/63	22	35.	39.091	90.	0.	751.515	27.414	0.	20.	62.5	84.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/31/77-01/04/82	30	100.5	254.2	1650.	4.	142187.545	377.078	6.1	21.5	326.75	701.3
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	03/31/77-01/04/82	30	666.5	8216.947	72600.	5.7	304152152.61	17439.959	24.	71.75	8967.5	26600.

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EPA Water Quality Criteria Analysis for Station: GRSM0010

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Other-Hi Lim.	9.	70	0	0.00	36	0	0.00	34	0	0.00						
		Other-Lo Lim.	6.5	70	56	0.80	36	28	0.78	34	28	0.82						
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	9	0	0.00	6	0	0.00	3	0	0.00						
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	8	0	0.00	5	0	0.00	3	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	70	0	0.00	36	0	0.00	34	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	70	0	0.00	36	0	0.00	34	0	0.00						
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	49	0	0.00	25	0	0.00	24	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	22	0	0.00	10	0	0.00	12	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 1956 - Station GRSM0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00080	COLOR (PLATINUM-COBALT UNITS)	10/19/56-05/09/72	1	110.	110.	110.	110.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/56-05/09/72	1	68.	68.	68.	68.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/19/56-05/09/72	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/19/56-05/09/72	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/56-05/09/72	1	0.794	0.794	0.794	0.794	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/19/56-05/09/72	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/19/56-05/09/72	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/19/56-05/09/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/19/56-05/09/72	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/56-05/09/72	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/19/56-05/09/72	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/19/56-05/09/72	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/19/56-05/09/72	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/19/56-05/09/72	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/19/56-09/24/63	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/19/56-05/09/72	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/19/56-11/08/71	1	760.	760.	760.	760.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/19/56-05/09/72	1	49.	49.	49.	49.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/19/56-09/25/62	1	2.1	2.1	2.1	2.1	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

Annual Analysis for 1957 - Station GRSM0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/18/57-10/02/72	3	1970.	2166.667	3110.	1420.	743033.333	861.994	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	10/19/56-05/09/72	4	35.	30.	40.	10.	200.	14.142	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/56-05/09/72	4	36.5	36.25	39.	33.	7.583	2.754	**	**	**	**
00400	PH (STANDARD UNITS)	10/19/56-05/09/72	4	6.15	6.225	6.8	5.8	0.216	0.465	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/19/56-05/09/72	4	6.082	6.071	6.8	5.8	0.248	0.498	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/56-05/09/72	4	0.829	0.85	1.585	0.158	0.463	0.681	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/19/56-05/09/72	4	11.5	11.5	14.	9.	5.667	2.38	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/19/56-05/09/72	4	6.	6.25	7.	6.	0.25	0.5	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/19/56-05/09/72	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/19/56-05/09/72	4	1.7	1.75	2.	1.6	0.037	0.191	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/56-05/09/72	4	0.4	0.425	0.7	0.2	0.049	0.222	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/19/56-05/09/72	4	4.6	4.525	5.4	3.5	0.669	0.818	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/19/56-05/09/72	4	0.55	0.525	0.6	0.4	0.009	0.096	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/19/56-05/09/72	4	2.	1.75	2.	1.	0.25	0.5	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/19/56-05/09/72	4	6.5	6.5	8.	5.	1.667	1.291	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/19/56-09/24/63	4	0.	0.025	0.1	0.	0.003	0.05	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/19/56-05/09/72	4	7.5	7.125	8.3	5.2	1.896	1.377	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/19/56-11/08/71	4	25.	25.	40.	10.	166.667	12.91	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/19/56-05/09/72	4	31.5	31.	35.	26.	15.333	3.916	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/19/56-09/25/62	4	0.4	0.475	0.9	0.2	0.096	0.31	**	**	**	**

** - Less 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 1958 - Station GRSM0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/18/57-10/02/72	9	1610.	1533.667	2180.	753.	274338.5	523.773	753.	1085.	2010.	2180.
00080	COLOR (PLATINUM-COBALT UNITS)	10/19/56-05/09/72	9	40.	45.556	100.	5.	959.028	30.968	5.	20.	70.	100.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/56-05/09/72	9	39.	43.	71.	19.	255.5	15.984	19.	33.	57.	71.
00400	PH (STANDARD UNITS)	10/19/56-05/09/72	9	6.2	6.211	6.3	6.1	0.006	0.078	6.1	6.15	6.3	6.3

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

Annual Analysis for 1958 - Station GRSM0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	CONVERTED PH (STANDARD UNITS)	10/19/56-05/09/72	9	6.2	6.205	6.3	6.1	0.006	0.078	6.1	6.15	6.3	6.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/56-05/09/72	9	0.631	0.624	0.794	0.501	0.013	0.114	0.501	0.501	0.713	0.794
00440	BICARBONATE ION (MG/L AS HCO3)	10/19/56-05/09/72	9	12.	14.222	24.	8.	26.944	5.191	8.	11.	19.	24.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/19/56-05/09/72	9	7.	7.	10.	5.	3.	1.732	5.	5.5	8.5	10.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/19/56-05/09/72	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/19/56-05/09/72	9	2.	2.089	2.8	1.6	0.281	0.53	1.6	1.6	2.7	2.8
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/56-05/09/72	9	0.5	0.422	0.7	0.2	0.027	0.164	0.2	0.25	0.5	0.7
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/19/56-05/09/72	9	5.7	6.067	11.	1.3	10.933	3.306	1.3	3.3	9.2	11.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/19/56-05/09/72	9	0.6	0.778	1.4	0.2	0.159	0.399	0.2	0.55	1.2	1.4
00940	CHLORIDE,TOTAL IN WATER MG/L	10/19/56-05/09/72	9	1.	1.511	3.	0.6	0.601	0.775	0.6	1.	2.	3.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/19/56-05/09/72	9	8.	7.878	15.	0.9	22.034	4.694	0.9	4.	11.5	15.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/19/56-09/24/63	9	0.	0.033	0.1	0.	0.003	0.05	0.	0.	0.1	0.1
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/19/56-05/09/72	9	8.1	8.133	9.7	6.8	0.852	0.923	6.8	7.4	8.85	9.7
01045	IRON, TOTAL (UG/L AS FE)	10/19/56-11/08/71	9	30.	40.	100.	0.	1125.	33.541	0.	15.	70.	100.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/19/56-05/09/72	9	39.	42.333	69.	19.	251.5	15.859	19.	30.5	57.	69.
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/19/56-09/25/62	9	0.7	0.711	1.3	0.3	0.136	0.369	0.3	0.4	1.05	1.3

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

Annual Analysis for 1959 - Station GRSM0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/18/57-10/02/72	4	1685.	1687.5	2160.	1220.	201425.	448.804	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	10/19/56-05/09/72	4	25.	38.75	95.	10.	1472.917	38.379	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/56-05/09/72	4	36.5	49.5	100.	25.	1183.	34.395	**	**	**	**
00400	PH (STANDARD UNITS)	10/19/56-05/09/72	4	6.05	6.15	6.6	5.9	0.097	0.311	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/19/56-05/09/72	4	6.047	6.083	6.6	5.9	0.103	0.32	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/56-05/09/72	4	0.897	0.826	1.259	0.251	0.183	0.428	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/19/56-05/09/72	4	13.	13.5	20.	8.	24.333	4.933	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/19/56-05/09/72	4	6.5	6.5	7.	6.	0.333	0.577	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/19/56-05/09/72	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/19/56-05/09/72	4	2.	1.95	2.5	1.3	0.27	0.52	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/56-05/09/72	4	0.35	0.375	0.6	0.2	0.029	0.171	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/19/56-05/09/72	4	4.65	7.2	18.	1.5	55.647	7.46	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/19/56-05/09/72	4	0.85	0.925	1.2	0.8	0.036	0.189	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/19/56-05/09/72	4	1.	1.175	2.	0.7	0.323	0.568	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/19/56-05/09/72	4	5.	10.45	31.	0.8	197.61	14.057	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/19/56-09/24/63	4	0.1	0.125	0.2	0.1	0.003	0.05	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/19/56-05/09/72	4	8.05	8.15	8.9	7.6	0.377	0.614	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/19/56-11/08/71	4	50.	70.	140.	40.	2200.	46.904	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/19/56-05/09/72	4	30.5	40.75	83.	19.	836.25	28.918	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/19/56-09/25/62	4	0.9	0.9	1.3	0.5	0.133	0.365	**	**	**	**

** - Less 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 GRSM0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/18/57-10/02/72	10	1058.	1227.9	2160.	527.	342502.322	585.237	540.5	720.5	1745.	2144.
00080	COLOR (PLATINUM-COBALT UNITS)	10/19/56-05/09/72	10	45.	67.	240.	5.	5595.556	74.803	5.	8.75	112.5	228.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/56-05/09/72	10	66.	70.8	160.	21.	2530.622	50.305	21.	23.25	114.25	157.
00400	PH (STANDARD UNITS)	10/19/56-05/09/72	10	6.7	6.6	7.2	6.	0.133	0.365	6.01	6.25	6.8	7.16
00400	CONVERTED PH (STANDARD UNITS)	10/19/56-05/09/72	10	6.7	6.458	7.2	6.	0.156	0.395	6.01	6.25	6.8	7.16
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/56-05/09/72	10	0.2	0.348	1.	0.063	0.099	0.314	0.073	0.158	0.574	0.979
00440	BICARBONATE ION (MG/L AS HCO3)	10/19/56-05/09/72	10	18.5	20.6	43.	9.	132.933	11.53	9.1	10.	28.	42.1

** - 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 1960 - Station GRSM0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/19/56-05/09/72	10	6.5	6.8	8.	6.	0.844	0.919	6.	6.	8.	8.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/19/56-05/09/72	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/19/56-05/09/72	10	2.05	1.95	2.6	1.3	0.183	0.428	1.31	1.625	2.2	2.59
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/56-05/09/72	10	0.5	0.53	1.	0.2	0.058	0.241	0.22	0.4	0.6	0.99
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/19/56-05/09/72	10	10.6	11.21	29.	1.2	102.828	10.14	1.22	1.55	19.5	28.5
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/19/56-05/09/72	10	0.9	0.92	1.3	0.4	0.088	0.297	0.42	0.75	1.225	1.3
00940	CHLORIDE,TOTAL IN WATER MG/L	10/19/56-05/09/72	10	0.65	1.02	2.	0.4	0.488	0.699	0.41	0.5	2.	2.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/19/56-05/09/72	10	12.5	13.45	34.	0.5	160.136	12.654	0.55	1.75	23.	33.8
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/19/56-09/24/63	10	0.1	0.11	0.2	0.	0.008	0.088	0.	0.	0.2	0.2
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/19/56-05/09/72	10	8.35	8.44	9.5	7.6	0.42	0.648	7.6	7.9	8.975	9.47
01045	IRON, TOTAL (UG/L AS FE)	10/19/56-11/08/71	10	15.	16.	40.	0.	204.444	14.298	0.	0.	30.	39.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/19/56-05/09/72	10	53.5	64.4	137.	19.	1975.378	44.445	19.1	23.	113.	135.5
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/19/56-09/25/62	10	0.35	0.52	1.2	0.2	0.126	0.355	0.2	0.275	0.85	1.18

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

Annual Analysis for 1961 - Station GRSM0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/18/57-10/02/72	12	1075.	1162.	1800.	665.	194547.818	441.076	676.7	722.25	1655.	1791.
00080	COLOR (PLATINUM-COBALT UNITS)	10/19/56-05/09/72	12	31.5	35.167	100.	1.	1037.606	32.212	2.2	5.	47.5	97.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/56-05/09/72	12	50.5	50.833	94.	22.	560.333	23.671	22.6	25.25	71.	87.7
00400	PH (STANDARD UNITS)	10/19/56-05/09/72	12	6.25	6.267	6.9	5.5	0.153	0.392	5.59	6.05	6.5	6.87
00400	CONVERTED PH (STANDARD UNITS)	10/19/56-05/09/72	12	6.247	6.099	6.9	5.5	0.184	0.429	5.59	6.05	6.5	6.87
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/56-05/09/72	12	0.566	0.797	3.162	0.126	0.712	0.844	0.136	0.316	0.908	2.689
00440	BICARBONATE ION (MG/L AS HCO3)	10/19/56-05/09/72	12	14.	14.667	23.	9.	22.242	4.716	9.	10.25	18.25	22.7
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/19/56-05/09/72	12	6.5	6.667	8.	6.	0.606	0.778	6.	6.	7.	8.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/19/56-05/09/72	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/19/56-05/09/72	12	1.75	1.8	2.5	1.6	0.06	0.245	1.6	1.625	1.875	2.32
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/56-05/09/72	12	0.45	0.508	0.8	0.3	0.023	0.151	0.33	0.4	0.6	0.77
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/19/56-05/09/72	12	7.65	6.992	14.	1.3	18.932	4.351	1.39	1.875	9.875	13.4
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/19/56-05/09/72	12	0.95	0.975	1.5	0.6	0.084	0.29	0.6	0.725	1.2	1.44
00940	CHLORIDE,TOTAL IN WATER MG/L	10/19/56-05/09/72	12	2.	1.742	3.	0.4	0.721	0.849	0.46	0.925	2.	3.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/19/56-05/09/72	12	8.5	8.5	20.	1.	35.	5.916	1.3	2.25	12.25	18.8
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/19/56-09/24/63	12	0.05	0.058	0.2	0.	0.004	0.067	0.	0.	0.1	0.17
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/19/56-05/09/72	12	7.6	7.658	9.5	6.9	0.439	0.663	6.93	7.3	7.875	9.02
01045	IRON, TOTAL (UG/L AS FE)	10/19/56-11/08/71	12	35.	34.167	70.	0.	553.788	23.533	0.	12.5	57.5	67.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/19/56-05/09/72	12	47.5	46.5	84.	19.	455.545	21.344	19.3	23.75	63.5	79.8
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/19/56-09/25/62	12	0.5	0.608	1.6	0.2	0.141	0.375	0.2	0.5	0.675	1.42

** - Less 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 GRSM0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/18/57-10/02/72	12	1089.	2004.167	5610.	588.	3378447.061	1838.055	608.7	725.25	2985.	5562.
00080	COLOR (PLATINUM-COBALT UNITS)	10/19/56-05/09/72	12	41.5	59.667	180.	14.	2551.697	50.514	16.1	28.5	67.5	168.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/56-05/09/72	12	61.	63.083	132.	27.	954.629	30.897	28.5	37.	73.	123.9
00400	PH (STANDARD UNITS)	10/19/56-05/09/72	12	6.2	6.208	6.8	6.	0.041	0.202	6.03	6.1	6.2	6.65
00400	CONVERTED PH (STANDARD UNITS)	10/19/56-05/09/72	12	6.2	6.177	6.8	6.	0.042	0.205	6.03	6.1	6.2	6.65
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/56-05/09/72	12	0.631	0.666	1.	0.158	0.043	0.206	0.261	0.631	0.794	0.938
00440	BICARBONATE ION (MG/L AS HCO3)	10/19/56-05/09/72	12	16.5	18.5	36.	9.	65.	8.062	9.6	12.25	23.25	34.2
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/19/56-05/09/72	12	6.	6.5	8.	5.	1.545	1.243	5.	5.25	8.	8.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/19/56-05/09/72	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/19/56-05/09/72	12	1.85	1.8	2.2	1.	0.133	0.364	1.09	1.625	2.1	2.2

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

Annual Analysis for 1962 - Station GRSM0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/56-05/09/72	12	0.5	0.475	0.8	0.2	0.033	0.182	0.23	0.3	0.6	0.77
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/19/56-05/09/72	12	9.6	10.083	26.	2.5	48.585	6.97	2.62	4.725	12.	24.2
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/19/56-05/09/72	12	0.95	0.942	1.3	0.6	0.064	0.254	0.63	0.7	1.225	1.3
00940	CHLORIDE,TOTAL IN WATER MG/L	10/19/56-05/09/72	12	1.	1.367	2.	0.7	0.321	0.566	0.73	0.925	2.	2.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/19/56-05/09/72	12	11.	11.	28.	3.	51.818	7.198	3.3	5.25	13.5	25.6
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/19/56-09/24/63	12	0.1	0.1	0.3	0.	0.009	0.095	0.	0.	0.175	0.27
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/19/56-05/09/72	12	7.4	7.508	8.5	6.3	0.357	0.598	6.51	7.225	7.975	8.44
01045	IRON, TOTAL (UG/L AS FE)	10/19/56-11/08/71	9	40.	48.889	90.	30.	486.111	22.048	30.	30.	70.	90.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/19/56-05/09/72	12	47.5	55.	118.	26.	785.636	28.029	27.8	35.25	67.75	112.3
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/19/56-09/25/62	9	0.7	0.633	1.4	0.	0.213	0.461	0.	0.2	0.95	1.4

** - 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 1963 - Station GRSM0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/18/57-10/02/72	8	1038.	1324.375	2580.	500.	560883.982	748.922	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	10/19/56-05/09/72	8	42.5	48.5	110.	5.	1462.286	38.24	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/56-05/09/72	8	48.5	56.25	105.	23.	773.643	27.814	**	**	**	**
00400	PH (STANDARD UNITS)	10/19/56-05/09/72	8	6.25	6.363	6.9	6.	0.126	0.354	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/19/56-05/09/72	8	6.247	6.263	6.9	6.	0.137	0.37	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/56-05/09/72	8	0.566	0.546	1.	0.126	0.102	0.319	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/19/56-05/09/72	8	15.	17.625	28.	12.	38.554	6.209	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/19/56-05/09/72	8	7.	6.875	8.	5.	1.268	1.126	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/19/56-05/09/72	8	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/19/56-05/09/72	8	1.95	1.975	2.6	1.2	0.242	0.492	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/56-05/09/72	8	0.5	0.45	0.6	0.2	0.026	0.16	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/19/56-05/09/72	8	6.5	8.863	19.	2.	37.366	6.113	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/19/56-05/09/72	8	1.	1.213	2.3	0.7	0.321	0.567	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/19/56-05/09/72	8	1.5	1.438	2.	0.5	0.388	0.623	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/19/56-05/09/72	8	7.5	10.25	25.	2.	66.786	8.172	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/19/56-09/24/63	8	0.15	0.125	0.3	0.	0.014	0.116	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/19/56-05/09/72	8	7.5	7.762	8.8	6.9	0.66	0.812	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/19/56-05/09/72	8	43.	50.	88.	22.	565.143	23.773	**	**	**	**

** - Less 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 GRSM0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/18/57-10/02/72	2	1310.	1310.	1400.	1220.	16200.	127.279	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	10/19/56-05/09/72	2	15.	15.	20.	10.	50.	7.071	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/56-05/09/72	2	35.5	35.5	39.	32.	24.5	4.95	**	**	**	**
00400	PH (STANDARD UNITS)	10/19/56-05/09/72	2	6.05	6.05	6.1	6.	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/19/56-05/09/72	2	6.047	6.047	6.1	6.	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/56-05/09/72	2	0.897	0.897	1.	0.794	0.021	0.145	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/19/56-05/09/72	2	4.5	4.5	6.	3.	4.5	2.121	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/19/56-05/09/72	2	6.	6.	6.	6.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/19/56-05/09/72	2	2.5	2.5	4.	1.	4.5	2.121	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/19/56-05/09/72	2	2.1	2.1	2.2	2.	0.02	0.141	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/56-05/09/72	2	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/19/56-05/09/72	2	1.45	1.45	1.5	1.4	0.005	0.071	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/19/56-05/09/72	2	0.95	0.95	1.2	0.7	0.125	0.354	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/19/56-05/09/72	2	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/19/56-05/09/72	2	4.5	4.5	5.	4.	0.5	0.707	**	**	**	**

** - Less 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 GRSM0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/19/56-05/09/72	2	6.6	6.6	6.7	6.5	0.02	0.141	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/19/56-05/09/72	2	29.5	29.5	34.	25.	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

Annual Analysis for 1971 - Station GRSM0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/18/57-10/02/72	5	1310.	1564.	2530.	1070.	331680.	575.917	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	10/19/56-05/09/72	5	8.	10.4	20.	6.	34.8	5.899	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/56-05/09/72	5	33.	37.6	51.	30.	72.8	8.532	**	**	**	**
00400	PH (STANDARD UNITS)	10/19/56-05/09/72	5	5.	5.06	6.	4.6	0.308	0.555	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/19/56-05/09/72	5	5.	4.879	6.	4.6	0.349	0.591	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/56-05/09/72	5	10.	13.214	25.119	1.	89.244	9.447	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/19/56-05/09/72	5	3.	4.8	10.	1.	15.7	3.962	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/19/56-05/09/72	5	7.	7.2	9.	6.	1.7	1.304	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/19/56-05/09/72	5	4.	3.4	8.	0.	9.8	3.13	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/19/56-05/09/72	5	2.1	2.22	2.6	1.8	0.132	0.363	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/56-05/09/72	5	0.5	0.5	0.6	0.4	0.005	0.071	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/19/56-05/09/72	5	1.2	1.36	1.8	1.	0.108	0.329	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/19/56-05/09/72	5	0.8	0.84	1.1	0.7	0.028	0.167	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/19/56-05/09/72	5	1.	1.4	2.	1.	0.3	0.548	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/19/56-05/09/72	5	5.	4.6	5.	4.	0.3	0.548	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/19/56-05/09/72	5	6.7	6.94	7.6	6.4	0.243	0.493	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/19/56-11/08/71	3	170.	173.333	180.	170.	33.333	5.774	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/19/56-05/09/72	5	28.	28.6	40.	21.	56.3	7.503	**	**	**	**

** - Less 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 GRSM0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/18/57-10/02/72	5	1620.	1461.6	2150.	808.	349022.8	590.782	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	10/19/56-05/09/72	3	7.	7.333	10.	5.	6.333	2.517	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/56-05/09/72	3	31.	29.333	35.	22.	44.333	6.658	**	**	**	**
00400	PH (STANDARD UNITS)	10/19/56-05/09/72	3	5.7	5.567	6.	5.	0.263	0.513	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/19/56-05/09/72	3	5.7	5.363	6.	5.	0.325	0.57	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/56-05/09/72	3	1.995	4.332	10.	1.	24.344	4.934	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/19/56-05/09/72	3	3.	4.333	7.	3.	5.333	2.309	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/19/56-05/09/72	3	6.	6.333	7.	6.	0.333	0.577	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/19/56-05/09/72	3	4.	3.	5.	0.	7.	2.646	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/19/56-05/09/72	3	2.	1.933	2.	1.8	0.013	0.115	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/56-05/09/72	3	0.5	0.467	0.5	0.4	0.003	0.058	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/19/56-05/09/72	3	1.2	1.367	1.9	1.	0.223	0.473	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/19/56-05/09/72	3	0.5	0.567	0.7	0.5	0.013	0.115	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/19/56-05/09/72	3	2.	1.667	2.	1.	0.333	0.577	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/19/56-05/09/72	3	3.	3.	3.	3.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/19/56-05/09/72	3	6.5	6.367	6.8	5.8	0.263	0.513	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/19/56-05/09/72	3	26.	26.333	30.	23.	12.333	3.512	**	**	**	**

** - Less 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: 10/01 to 3/31 - Station GRSM0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/18/57-10/02/72	36	1410.	1726.083	5610.	527.	1326189.221	1151.603	691.4	907.	2112.5	3047.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/19/56-01/04/82	21	5850.	6991.619	19100.	524.	28970175.048	5382.395	1356.	1895.	10750.	15900.
00080	COLOR (PLATINUM-COBALT UNITS)	10/19/56-05/09/72	36	30.	43.889	240.	1.	2217.416	47.089	5.7	10.5	58.75	103.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/56-05/09/72	36	38.	51.139	160.	21.	1014.009	31.844	24.	31.	68.	95.8
00400	PH (STANDARD UNITS)	10/19/56-05/09/72	36	6.2	6.15	7.2	4.7	0.265	0.515	5.35	6.	6.375	6.8
00400	CONVERTED PH (STANDARD UNITS)	10/19/56-05/09/72	36	6.2	5.751	7.2	4.7	0.429	0.655	5.35	6.	6.375	6.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/56-05/09/72	36	0.631	1.772	19.953	0.063	14.646	3.827	0.158	0.424	1.	5.214
00440	BICARBONATE ION (MG/L AS HCO3)	10/19/56-05/09/72	36	12.	13.806	43.	2.	76.733	8.76	3.	9.	16.75	25.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/19/56-05/09/72	36	6.	6.472	10.	5.	1.113	1.055	5.	6.	7.	8.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/19/56-05/09/72	36	0.	0.611	5.	0.	2.187	1.479	0.	0.	0.	4.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/19/56-05/09/72	36	1.8	1.836	2.5	1.	0.125	0.353	1.3	1.6	2.075	2.36
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/56-05/09/72	36	0.5	0.486	1.	0.2	0.04	0.199	0.27	0.325	0.6	0.83
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/19/56-05/09/72	36	4.75	6.972	29.	1.	45.399	6.738	1.2	1.625	10.	15.2
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/19/56-05/09/72	36	0.8	0.819	1.3	0.2	0.075	0.274	0.5	0.6	1.	1.23
00940	CHLORIDE,TOTAL IN WATER MG/L	10/19/56-05/09/72	36	2.	1.564	3.	0.4	0.48	0.693	0.5	1.	2.	2.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/19/56-05/09/72	36	7.	9.286	34.	0.5	68.616	8.283	1.7	3.25	12.	22.4
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/19/56-09/24/63	30	0.1	0.08	0.2	0.	0.006	0.076	0.	0.	0.1	0.2
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/19/56-05/09/72	36	7.45	7.494	9.5	5.2	0.852	0.923	6.47	6.825	7.9	8.9
01045	IRON, TOTAL (UG/L AS FE)	10/19/56-11/08/71	26	40.	73.846	760.	0.	21096.615	145.247	10.	20.	55.	149.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/19/56-05/09/72	36	34.5	44.361	137.	19.	712.523	26.693	21.8	26.5	51.75	83.3

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

Seasonal Analysis for Season #2: 4/01 to 9/30 - Station GRSM0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/18/57-10/02/72	34	1195.	1280.294	2880.	500.	316069.123	562.2	685.5	871.	1622.5	2135.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/19/56-01/04/82	11	1310.	1754.364	3820.	620.	1142913.455	1069.071	623.6	1000.	2620.	3700.
00080	COLOR (PLATINUM-COBALT UNITS)	10/19/56-05/09/72	34	30.	44.559	180.	5.	1858.072	43.105	5.	9.5	70.	110.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/56-05/09/72	34	47.5	53.794	130.	19.	774.047	27.822	22.5	33.	71.25	105.
00400	PH (STANDARD UNITS)	10/19/56-05/09/72	34	6.2	6.2	6.9	4.6	0.219	0.468	5.75	6.075	6.425	6.8
00400	CONVERTED PH (STANDARD UNITS)	10/19/56-05/09/72	34	6.2	5.787	6.9	4.6	0.395	0.628	5.75	6.075	6.425	6.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/56-05/09/72	34	0.631	1.635	25.119	0.126	19.951	4.467	0.158	0.378	0.846	1.79
00440	BICARBONATE ION (MG/L AS HCO3)	10/19/56-05/09/72	34	15.	16.088	34.	1.	54.386	7.375	8.	10.75	20.	27.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/19/56-05/09/72	34	7.	7.029	10.	5.	1.363	1.167	6.	6.	8.	8.5
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/19/56-05/09/72	34	0.	0.265	8.	0.	1.898	1.377	0.	0.	0.	0.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/19/56-05/09/72	34	2.	2.041	2.8	1.3	0.167	0.408	1.6	1.7	2.3	2.6
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/56-05/09/72	34	0.5	0.459	0.7	0.2	0.023	0.152	0.2	0.3	0.6	0.7
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/19/56-05/09/72	34	6.45	7.712	24.	1.2	38.097	6.172	1.3	1.975	11.25	18.5
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/19/56-05/09/72	34	0.95	0.997	2.3	0.4	0.154	0.393	0.55	0.7	1.3	1.45
00940	CHLORIDE,TOTAL IN WATER MG/L	10/19/56-05/09/72	34	1.	1.309	3.	0.4	0.434	0.659	0.5	0.875	2.	2.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/19/56-05/09/72	34	8.	9.056	32.	0.9	54.409	7.376	1.5	3.	11.25	20.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/19/56-09/24/63	30	0.1	0.083	0.3	0.	0.009	0.095	0.	0.	0.125	0.2
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/19/56-05/09/72	34	7.85	7.879	9.7	5.8	0.617	0.785	7.05	7.3	8.35	9.
01045	IRON, TOTAL (UG/L AS FE)	10/19/56-11/08/71	26	30.	42.692	180.	0.	2148.462	46.351	0.	10.	60.	114.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/19/56-05/09/72	34	41.	48.912	122.	19.	720.265	26.838	20.5	26.	61.5	93.5

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

Station Inventory for Station: GRSM0011

NPS Station ID: GRSM0011 LAT/LON: 35.429170/ -83.475003 Agency: 21NC01WQ Date Created: / /
Location: TUCKASEGEE R NEAR BRYSON CITY NC INACT-770713 FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): G9200000 /LTN031
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 06010203 Depth of Water: 999 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010203008 RF1 Mile Point: 3.220 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010203000900.00 RF3 Mile Point: 0.00 Distance from RF3: 0.07 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/29/68-07/13/77	14	19.5	18.357	29.	5.	52.093	7.218	6.	14.	23.5	27.5
00023	SAMPLE WEIGHT IN POUNDS	07/29/68-12/10/74	13	19.	17.538	26.	5.	46.269	6.802	5.8	12.	22.5	25.6
00060	FLOW, STREAM, MEAN DAILY CFS	07/29/68-08/24/71	10	712.5	981.1	2000.	575.	226321.656	475.733	580.9	647.5	1302.5	1952.
00065	STAGE, STREAM (FEET)	07/29/68-12/10/74	13	1.99	2.119	3.11	1.17	0.242	0.491	1.422	1.835	2.46	2.93
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/29/68-07/13/77	10 ##	5.	5.82	13.	4.2	6.546	2.559	4.28	5.	5.25	12.3
00078	TRANSPARENCY, SECCHI DISC (METERS)	07/13/77-07/13/77	1	1.65	1.65	1.65	1.65	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/12/74-07/13/77	3	52.	52.	84.	20.	1024.	32.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/29/68-07/13/77	14	8.35	8.579	12.	6.4	2.442	1.563	6.75	7.25	9.625	11.25
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/29/68-12/10/74	13	86.	82.923	115.	20.	483.41	21.987	39.2	80.	91.	109.4
00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	09/12/74-11/14/74	2	68.	68.	84.	52.	512.	22.627	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	07/29/68-07/28/71	7	2.1	3.914	12.	1.8	13.521	3.677	**	**	**	**
00400	PH (STANDARD UNITS)	07/29/68-07/13/77	14	7.	7.064	8.8	6.5	0.324	0.569	6.5	6.7	7.225	8.1
00400	CONVERTED PH (STANDARD UNITS)	07/29/68-07/13/77	14	7.	6.879	8.8	6.5	0.361	0.601	6.5	6.7	7.225	8.1
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/68-07/13/77	14	0.1	0.132	0.316	0.002	0.009	0.096	0.021	0.06	0.2	0.316
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/29/68-07/13/77	14	14.	13.214	18.	7.	13.412	3.662	7.5	10.	16.5	18.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/68-07/13/77	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)	05/14/69-07/28/71	5	51.	42.	57.	12.	346.5	18.615	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/25/73-12/10/74	4	1.	0.75	1.	0.	0.25	0.5	**	**	**	**
00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	12/08/70-12/08/70	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00525	RESIDUE, FIXED FILTRABLE (MG/L)	07/29/68-12/10/74	13	2.	2.077	3.	1.	0.244	0.494	1.4	2.	2.	3.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/29/68-07/28/71	5	19.	23.2	50.	10.	241.7	15.547	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	06/25/73-12/10/74	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/29/68-12/10/74	13	8.4	8.6	12.	6.4	2.638	1.624	6.68	7.2	9.85	11.4
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/29/68-07/28/71	8 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00740	SULFITE (MG/L AS SO3)	06/25/73-12/10/74	4	1.5	1.25	2.	0.	0.917	0.957	**	**	**	**
00745	SULFIDE, TOTAL (MG/L AS S)	07/29/68-07/28/71	8 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/29/68-12/08/70	6	663.5	660.167	729.	575.	2849.367	53.379	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/29/68-07/28/71	8 ##	5.	6.	13.	5.	8.	2.828	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	06/25/73-12/10/74	3	225.	225.	270.	180.	2025.	45.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/25/73-12/10/74	4	0.	0.075	0.3	0.	0.023	0.15	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	06/25/73-12/10/74	4	2.	2.25	3.	2.	0.25	0.5	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	12/10/74-12/10/74	1	1100.	1100.	1100.	1100.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/29/68-07/28/71	7	2.	3.857	12.	2.	13.476	3.671	**	**	**	**
01132	LITHIUM, TOTAL (UG/L AS LI)	06/25/73-12/10/74	4	62.5	62.5	100.	25.	1041.667	32.275	**	**	**	**
31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/68-12/10/74	13	7.	7.154	9.	7.	0.308	0.555	7.	7.	7.	8.2
31508	LOG COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/68-12/10/74	13	0.845	0.853	0.954	0.845	0.001	0.03	0.845	0.845	0.845	0.911
31508	GM COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	GEOMETRIC MEAN =			7.137								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/10/74-07/13/77	2 ##	552.5	552.5	1100.	5.	599512.5	774.282	**	**	**	**

** - Less 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: GRSM0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/10/74-07/13/77	2 ##	1.87	1.87	3.041	0.699	2.743	1.656	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			74.162								
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/25/73-12/10/74	2	1.5	1.5	3.	0.	4.5	2.121	**	**	**	**
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/29/68-12/10/74	13	86.	82.923	115.	20.	483.41	21.987	39.2	80.	91.	109.4
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/28/71-12/10/74	6	50.	49.667	95.	20.	642.667	25.351	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	12/08/70-12/08/70	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
85001	BOD, 5 DAY LBS/DAY	07/29/68-12/08/70	5	14200.	17210.	37300.	7650.	136865500.	11698.953	**	**	**	**

** - Less 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: GRSM0011

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	10	0	0.00	3	0	0.00	7	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	14	0	0.00	5	0	0.00	9	0	0.00						
00400	PH	Other-Hi Lim.	9.	14	0	0.00	5	0	0.00	9	0	0.00						
		Other-Lo Lim.	6.5	14	2	0.14	5	1	0.20	9	1	0.11						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	8	0	0.00	2	0	0.00	6	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	3	0	0.00	1	0	0.00	2	0	0.00						
		Drinking Water	50.	3	3	1.00	1	1	1.00	2	2	1.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	4	0	0.00	2	0	0.00	2	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	4	0	0.00	2	0	0.00	2	0	0.00						
		Drinking Water	1300.	4	0	0.00	2	0	0.00	2	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	1	1.00	1	1	1.00									
		Drinking Water	50.	1	1	1.00	1	1	1.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	7	0	0.00	2	0	0.00	5	0	0.00						
31508	COLIFORM, TOTAL, MPN, COMP. TEST, TUBE C	Other-Hi Lim.	1000.	13	0	0.00	5	0	0.00	8	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	2	1	0.50	1	1	1.00	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

Seasonal Analysis for Season #1: 10/01 to 3/31 - Station GRSM0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/29/68-07/13/77	5	8.	12.4	23.	5.	64.8	8.05	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/29/68-07/13/77	5	10.3	9.7	12.	6.4	4.335	2.082	**	**	**	**
00400	PH (STANDARD UNITS)	07/29/68-07/13/77	5	7.	6.98	7.4	6.5	0.107	0.327	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/29/68-07/13/77	5	7.	6.879	7.4	6.5	0.12	0.346	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/68-07/13/77	5	0.1	0.132	0.316	0.04	0.012	0.108	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/29/68-07/13/77	5	12.	12.4	18.	8.	14.8	3.847	**	**	**	**

** - Less 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: 4/01 to 9/30 - Station GRSM0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/29/68-07/13/77	9	20.	21.667	29.	16.	17.75	4.213	16.	18.5	25.5	29.
00300	OXYGEN, DISSOLVED MG/L	07/29/68-07/13/77	9	8.	7.956	9.4	7.1	0.578	0.76	7.1	7.2	8.4	9.4
00400	PH (STANDARD UNITS)	07/29/68-07/13/77	9	7.	7.111	8.8	6.5	0.466	0.683	6.5	6.7	7.25	8.8
00400	CONVERTED PH (STANDARD UNITS)	07/29/68-07/13/77	9	7.	6.879	8.8	6.5	0.527	0.726	6.5	6.7	7.25	8.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/68-07/13/77	9	0.1	0.132	0.316	0.002	0.009	0.096	0.002	0.057	0.2	0.316
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/29/68-07/13/77	9	14.	13.667	18.	7.	13.75	3.708	7.	10.5	17.	18.

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

Station Inventory for Station: GRSM0012

NPS Station ID: GRSM0012
LAT/LON: 35.432781/ -83.615837
Agency: 131TVAC
Date Created: / /
Location: FONTANA RESERVOIR
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM/SOLIDS
STORET Station ID(s): 360240 /3956
RMI-Indexes: 1021500 007720 00920 8540
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 074.00
HUC: 06010202
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 74.0
ECO Region:
RF1 Index: 06010202011
RF1 Mile Point: 9.540
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010204002013.24
RF3 Mile Point: 13.24
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71900	MERCURY, TOTAL (UG/L AS HG)	08/05/70-08/05/70	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/05/70-08/05/70	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: GRSM0012

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0013

NPS Station ID: GRSM0013
LAT/LON: 35.434726/ -83.591670
Agency: 21NC01WQ
Date Created: 02/24/76
Location: FONTANA LAKE BELOW TUCKASEGEE R
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9220000 /LTN031B
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010202
Depth of Water: 999
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE
ECO Region:
RF1 Index: 06010202003
RF1 Mile Point: 36.910
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010204003200.41
RF3 Mile Point: 0.41
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	100	24.5	22.34	30.	9.5	31.031	5.571	12.53	18.5	27.	27.99
00023	SAMPLE WEIGHT IN POUNDS	07/16/74-07/31/75	6	27.	26.833	28.	25.	1.367	1.169	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/13/77-08/29/94	7	2.3	4.1	17.	0.5	33.06	5.75	**	**	**	**
00077	TRANSPARENCY, SECCHI DISC (INCHES)	08/12/81-08/04/82	2	153.	153.	180.	126.	1458.	38.184	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	21	2.5	4.907	50.	1.5	107.349	10.361	1.74	2.	3.575	4.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	78	19.	19.128	32.	2.	57.542	7.586	7.	15.75	24.	32.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-06/17/80	19	25.	25.632	35.	19.	26.135	5.112	19.	21.	30.	34.
00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	08/05/87-08/05/87	1	8.9	8.9	8.9	8.9	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	101	7.6	7.066	10.8	0.5	2.722	1.65	4.6	6.2	8.2	8.5
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/16/74-07/20/77	8	101.5	99.875	112.	81.	78.696	8.871	**	**	**	**
00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	07/16/74-07/31/75	5	31.	29.6	34.	22.	20.3	4.506	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	06/17/80-06/17/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/09/75-08/29/94	99	7.2	7.118	9.1	5.4	1.163	1.078	5.6	6.1	8.2	8.4
00400	CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	99	7.2	6.176	9.1	5.4	2.059	1.435	5.6	6.1	8.2	8.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	99	0.063	0.667	3.981	0.001	1.295	1.138	0.004	0.006	0.794	2.512
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/09/75-07/31/79	20	7.	7.1	10.	2.	3.463	1.861	6.	6.	8.	10.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/09/75-07/31/79	17	0.	0.441	2.	0.	0.496	0.705	0.	0.	1.	2.
00500	RESIDUE, TOTAL (MG/L)	07/31/78-08/29/94	5	33.	30.4	36.	21.	44.3	6.656	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	06/17/80-08/04/82	2	18.	18.	22.	14.	32.	5.657	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	06/17/80-08/04/82	2	10.5	10.5	14.	7.	24.5	4.95	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/09/75-07/29/75	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	2 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/31/78-08/29/94	5	1.	1.2	2.	0.5	0.575	0.758	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/17/80-08/04/82	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/17/80-08/04/82	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	07/09/75-07/29/75	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	13 ##	0.025	0.029	0.09	0.005	0.	0.02	0.007	0.025	0.028	0.07
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	13	0.2	0.215	0.6	0.1	0.026	0.163	0.1	0.1	0.25	0.56
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	13 ##	0.025	0.038	0.2	0.005	0.003	0.051	0.007	0.018	0.025	0.148
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/31/75	6	8.2	8.333	9.1	7.9	0.183	0.427	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/29/75-07/29/75	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-08/29/94	13 ##	0.025	0.02	0.025	0.005	0.	0.008	0.007	0.01	0.025	0.025
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/12/81-08/04/82	2 ##	0.013	0.013	0.02	0.005	0.	0.011	**	**	**	**
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	07/16/74-07/29/75	2 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00740	SULFITE (MG/L AS SO3)	07/09/75-07/29/75	2	2.	2.	2.	2.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/30/75	5	180.	154.	270.	60.	8480.	92.087	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	07/07/77-08/04/82	9 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01027	CADMIUM, TOTAL (UG/L AS CD)	07/29/75-08/04/82	10 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.

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

Parameter Inventory for Station: GRSM0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/31/75	6	0.	0.003	0.02	0.	0.	0.008	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-08/04/82	10 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01037	COBALT, TOTAL (UG/L AS CO)	07/29/75-08/04/82	10 ##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01040	COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/31/75	6	1.	0.833	1.	0.5	0.067	0.258	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/16/74-08/04/82	11 ##	20.	41.818	140.	20.	1956.364	44.231	20.	20.	40.	136.
01045	IRON, TOTAL (UG/L AS FE)	07/29/75-08/04/82	10 ##	50.	58.	100.	50.	306.667	17.512	50.	50.	57.5	98.
01051	LEAD, TOTAL (UG/L AS PB)	07/16/74-08/04/82	11 ##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01055	MANGANESE, TOTAL (UG/L AS MN)	07/29/75-08/04/82	10 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01067	NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/30/75	7 ##	5.	463.571	3200.	5.	1456039.286	1206.665	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/16/74-08/04/82	11 ##	25.	40.909	100.	25.	829.091	28.794	25.	25.	60.	98.
01132	LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/31/75	6	40.	43.333	100.	10.	986.667	31.411	**	**	**	**
31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/09/75-07/31/75	5	7.	7.4	8.	7.	0.3	0.548	**	**	**	**
31508	LOG COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/09/75-07/31/75	5	0.845	0.868	0.903	0.845	0.001	0.032	**	**	**	**
31508	GM COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	GEOMETRIC MEAN =			7.384								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	26 ##	5.	418.981	7600.	0.5	2537462.39	1592.941	0.5	0.5	5.	974.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	26 ##	0.699	0.637	3.881	-0.301	1.025	1.012	-0.301	-0.301	0.699	1.962
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			4.334								
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/12/81-08/29/94	4	4.	3.75	5.	2.	1.583	1.258	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	04/05/77-06/17/80	4 ##	8.5	10.25	19.	5.	44.917	6.702	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/09/75-06/17/80	6	5.	6.833	21.	0.	62.167	7.885	**	**	**	**
32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/12/81-08/29/94	4 ##	0.75	0.75	1.	0.5	0.083	0.289	**	**	**	**
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/12/81-08/29/94	4	4.5	4.	5.	2.	2.	1.414	**	**	**	**
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-06/17/80	10	98.	64.5	112.	5.	2470.056	49.7	5.	5.	103.25	111.2
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	7 ##	2.5	5.643	17.	2.5	32.893	5.735	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/74-07/31/75	8	50.	43.625	50.	33.	77.411	8.798	**	**	**	**
70305	SALINITY BASED ON CONDUCTIVITY	07/16/74-07/19/78	3	0.	0.167	0.5	0.	0.083	0.289	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-08/05/87	9 ##	0.025	0.019	0.025	0.005	0.	0.008	0.005	0.01	0.025	0.025
71900	MERCURY, TOTAL (UG/L AS HG)	07/16/74-08/04/82	11 ##	0.25	0.236	0.25	0.1	0.002	0.045	0.13	0.25	0.25	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 time series plot

EPA Water Quality Criteria Analysis for Station: GRSM0013

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	7	0	0.00				7	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	101	4	0.04				101	4	0.04						
00400	PH	Other-Hi Lim.	9.	99	2	0.02				99	2	0.02						
		Other-Lo Lim.	6.5	99	32	0.32				99	32	0.32						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	13	0	0.00				13	0	0.00						
00720	CYANIDE, TOTAL	Fresh Acute	0.022	2	0	0.00				2	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	5	0	0.00				5	0	0.00						
		Drinking Water	50.	5	5	1.00				5	5	1.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	9	0	0.00				9	0	0.00						
		Drinking Water	50.	9	0	0.00				9	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	0 &	0	0.00												
		Drinking Water	5.	0 &	0	0.00												
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	6	0	0.00				6	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	10	0	0.00				10	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	6	0	0.00				6	0	0.00						
		Drinking Water	1300.	6	0	0.00				6	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	3 &	3	1.00				3	3	1.00						
		Drinking Water	1300.	11	0	0.00				11	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	11	0	0.00				11	0	0.00						
		Drinking Water	5.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	2 &	2	1.00				2	2	1.00						
		Drinking Water	50.	7	1	0.14				7	1	0.14						

& - 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: GRSM0013

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
01092	ZINC, TOTAL	Fresh Acute	120.	11	0	0.00				11	0	0.00						
31508	COLIFORM, TOTAL, MPN, COMP. TEST, TUBE C	Other-Hi Lim.	1000.	5	0	0.00				5	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	26	2	0.08				26	2	0.08						
71900	MERCURY, TOTAL	Fresh Acute	2.4	11	0	0.00				11	0	0.00						
		Drinking Water	2.	11	0	0.00				11	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 1974 - Station GRSM0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	1	8.1	8.1	8.1	8.1	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

Annual Analysis for 1975 - Station GRSM0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	5	27.	27.2	28.	26.	0.7	0.837	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	5	8.3	8.38	9.1	7.9	0.212	0.46	**	**	**	**
00400	PH (STANDARD UNITS)	07/09/75-08/29/94	5	7.3	7.32	7.6	6.9	0.072	0.268	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	5	7.3	7.247	7.6	6.9	0.079	0.28	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	5	0.05	0.057	0.126	0.025	0.002	0.04	**	**	**	**

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

Annual Analysis for 1977 - Station GRSM0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	6	28.	24.25	30.	9.5	62.375	7.898	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	6	8.1	8.483	10.8	7.3	1.49	1.221	**	**	**	**
00400	PH (STANDARD UNITS)	07/09/75-08/29/94	5	7.9	7.86	8.4	7.2	0.203	0.451	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	5	7.9	7.667	8.4	7.2	0.249	0.499	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	5	0.013	0.022	0.063	0.004	0.001	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 1978 - Station GRSM0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	5	27.	27.2	28.	27.	0.2	0.447	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	5	8.3	8.08	8.5	7.4	0.217	0.466	**	**	**	**
00400	PH (STANDARD UNITS)	07/09/75-08/29/94	5	8.9	8.88	9.1	8.5	0.062	0.249	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	5	8.9	8.818	9.1	8.5	0.067	0.258	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	5	0.001	0.002	0.003	0.001	0.	0.001	**	**	**	**

** - Less 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 GRSM0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	4	24.5	25.	27.	24.	2.	1.414	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	5	8.7	8.6	8.8	8.2	0.065	0.255	**	**	**	**
00400	PH (STANDARD UNITS)	07/09/75-08/29/94	5	7.6	7.4	8.6	6.	0.88	0.938	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	5	7.6	6.651	8.6	6.	1.581	1.257	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	5	0.025	0.223	1.	0.003	0.189	0.435	**	**	**	**

** - Less 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 GRSM0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	1	8.9	8.9	8.9	8.9	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/09/75-08/29/94	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	1	0.006	0.006	0.006	0.006	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 1981 - Station GRSM0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	19	24.6	22.221	27.7	10.3	34.052	5.835	12.5	17.2	27.2	27.7
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	19	31.	27.579	32.	16.	32.146	5.67	17.	23.	32.	32.
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	19	6.5	6.442	8.3	0.5	3.793	1.947	4.6	5.3	8.2	8.3
00400	PH (STANDARD UNITS)	07/09/75-08/29/94	19	6.1	6.826	8.4	5.6	1.475	1.215	5.7	5.8	8.3	8.4
00400	CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	19	6.1	6.059	8.4	5.6	2.096	1.448	5.7	5.8	8.3	8.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	19	0.794	0.872	2.512	0.004	0.719	0.848	0.004	0.005	1.585	1.995

** - Less 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 GRSM0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	19	23.8	21.105	26.3	11.5	28.741	5.361	12.2	15.8	25.7	26.3
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	19	21.	19.632	25.	12.	18.357	4.284	12.	17.	24.	24.
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	19	6.2	6.153	8.2	3.5	2.555	1.598	4.2	4.6	8.	8.1
00400	PH (STANDARD UNITS)	07/09/75-08/29/94	19	6.8	7.232	8.5	6.5	0.637	0.798	6.5	6.6	8.2	8.5
00400	CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	19	6.8	6.844	8.5	6.5	0.795	0.892	6.5	6.6	8.2	8.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	19	0.158	0.143	0.316	0.003	0.014	0.118	0.003	0.006	0.251	0.316

** - Less 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 GRSM0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	22	21.55	20.077	28.2	10.1	49.07	7.005	10.36	12.675	27.625	28.07
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	22	13.	11.091	18.	2.	32.848	5.731	3.	5.5	16.25	17.7
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	22	7.3	6.736	8.9	2.	3.213	1.792	3.17	5.975	8.025	8.2
00400	PH (STANDARD UNITS)	07/09/75-08/29/94	22	5.65	6.209	7.7	5.4	0.938	0.969	5.4	5.475	7.5	7.67
00400	CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	22	5.647	5.702	7.7	5.4	1.208	1.099	5.4	5.475	7.5	7.67
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	22	2.254	1.988	3.981	0.02	2.599	1.612	0.022	0.032	3.367	3.981

** - Less 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 1994 - Station GRSM0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	18	22.1	22.311	25.8	17.3	8.67	2.945	18.29	19.65	25.725	25.8
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	18	19.	19.5	24.	17.	2.735	1.654	17.9	18.75	20.25	22.2
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	18	7.6	7.389	8.4	6.2	0.676	0.822	6.29	6.475	8.1	8.31
00400	PH (STANDARD UNITS)	07/09/75-08/29/94	18	7.5	7.528	8.4	6.5	0.484	0.696	6.59	6.85	8.3	8.31

** - Less 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 1994 - Station GRSM0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	18	7.489	7.097	8.4	6.5	0.681	0.825	6.59	6.85	8.3	8.31
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	18	0.032	0.08	0.316	0.004	0.01	0.098	0.005	0.005	0.144	0.258

** - Less 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: 4/01 to 9/30 - Station GRSM0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	100	24.5	22.34	30.	9.5	31.031	5.571	12.53	18.5	27.	27.99
00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	21	2.5	4.907	50.	1.5	107.349	10.361	1.74	2.	3.575	4.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	78	19.	19.128	32.	2.	57.542	7.586	7.	15.75	24.	32.
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	101	7.6	7.066	10.8	0.5	2.722	1.65	4.6	6.2	8.2	8.5
00400	PH (STANDARD UNITS)	07/09/75-08/29/94	99	7.2	7.118	9.1	5.4	1.163	1.078	5.6	6.1	8.2	8.4
00400	CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	99	7.2	6.176	9.1	5.4	2.059	1.435	5.6	6.1	8.2	8.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	99	0.063	0.667	3.981	0.001	1.295	1.138	0.004	0.006	0.794	2.512
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	13 ##	0.025	0.029	0.09	0.005	0.	0.02	0.007	0.025	0.028	0.07
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	13	0.2	0.215	0.6	0.1	0.026	0.163	0.1	0.1	0.25	0.56
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	13 ##	0.025	0.038	0.2	0.005	0.003	0.051	0.007	0.018	0.025	0.148
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-08/29/94	13 ##	0.025	0.02	0.025	0.005	0.	0.008	0.007	0.01	0.025	0.025
01027	CADMIUM, TOTAL (UG/L AS CD)	07/29/75-08/04/82	10 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-08/04/82	10 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01037	COBALT, TOTAL (UG/L AS CO)	07/29/75-08/04/82	10 ##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01042	COPPER, TOTAL (UG/L AS CU)	07/16/74-08/04/82	11 ##	20.	41.818	140.	20.	1956.364	44.231	20.	20.	40.	136.
01045	IRON, TOTAL (UG/L AS FE)	07/29/75-08/04/82	10 ##	50.	58.	100.	50.	306.667	17.512	50.	50.	57.5	98.
01051	LEAD, TOTAL (UG/L AS PB)	07/16/74-08/04/82	11 ##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01055	MANGANESE, TOTAL (UG/L AS MN)	07/29/75-08/04/82	10 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01092	ZINC, TOTAL (UG/L AS ZN)	07/16/74-08/04/82	11 ##	25.	40.909	100.	25.	829.091	28.794	25.	25.	60.	98.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	26 ##	5.	418.981	7600.	0.5	2537462.39	1592.941	0.5	0.5	5.	974.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	26 ##	0.699	0.637	3.881	-0.301	1.025	1.012	-0.301	-0.301	0.699	1.962
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			4.334								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-08/05/87	9 ##	0.025	0.019	0.025	0.005	0.	0.008	0.005	0.01	0.025	0.025
71900	MERCURY, TOTAL (UG/L AS HG)	07/16/74-08/04/82	11 ##	0.25	0.236	0.25	0.1	0.002	0.045	0.13	0.25	0.25	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

Station Inventory for Station: GRSM0014

NPS Station ID: GRSM0014
LAT/LON: 35.434726/ -83.591670
Agency: 21NC01WQ
Date Created: 07/11/87
Location: FONTANA LAKE BELOW TUCKASEGEE R
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9220010 /LTN031BSUR
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010202
Depth of Water: 1
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE
ECO Region:
RF1 Index: 06010202
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010204036800.00
RF3 Mile Point: 0.45
Distance from RF3: 0.06
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0014

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	08/05/87-08/05/87	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/05/87-08/05/87	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/05/87-08/05/87	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/05/87-08/05/87	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/05/87-08/05/87	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	08/05/87-08/05/87	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/05/87-08/05/87	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	08/05/87-08/05/87	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	08/05/87-08/05/87	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/05/87-08/05/87	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/05/87-08/05/87	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/05/87-08/05/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/05/87-08/05/87	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/05/87-08/05/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/05/87-08/05/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	08/05/87-08/05/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/05/87-08/05/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/05/87-08/05/87	1	50.	50.	50.	50.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/05/87-08/05/87	1 ##	0.1	0.1	0.1	0.1	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: GRSM0014

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	0 &	0	0.00												
		Drinking Water	5.	0 &	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						

& - 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: GRSM0014

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	5.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00				1	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0015

NPS Station ID: GRSM0015
LAT/LON: 35.434726/ -83.591670
Agency: 21NC01WQ
Date Created: 07/11/87
Location: FONTANA LAKE BELOW TUCKASEEGEE R
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9220020 /LTN031BBOT
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010202
Depth of Water: 1
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE
ECO Region:
RF1 Index: 06010202
RF1 Mile Point: 0.000
Distance from RF1: 1.00
On/Off RF1:
RF3 Index: 06010202008100.00
RF3 Mile Point: 0.00
Distance from RF3: 0.12
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0015

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/05/87-08/29/94	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/05/87-08/29/94	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/05/87-08/29/94	1	0.18	0.18	0.18	0.18	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/05/87-08/29/94	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/05/87-08/05/87	1	0.01	0.01	0.01	0.01	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: GRSM0015

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0016

NPS Station ID: GRSM0016
LAT/LON: 35.434726/ -83.647227
Agency: 21NC01WQ
Date Created: 02/24/76
Location: FONTANA LAKE ABOVE STECOAH CRK
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9240000 /LTN031D
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010202
Depth of Water: 999
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE
ECO Region:
RF1 Index: 06010202011
RF1 Mile Point: 6.940
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010202008100.00
RF3 Mile Point: 0.00
Distance from RF3: 0.12
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	84	25.15	23.407	31.	9.4	24.897	4.99	15.65	21.	27.	28.2
00023	SAMPLE WEIGHT IN POUNDS	07/16/74-07/29/75	2	26.5	26.5	27.	26.	0.5	0.707	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/07/77-08/29/94	6	4.25	9.567	42.	0.5	256.119	16.004	**	**	**	**
00077	TRANSPARENCY, SECCHI DISC (INCHES)	08/12/81-08/04/82	2	139.5	139.5	177.	102.	2812.5	53.033	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	17	2.3	5.371	50.	1.6	132.832	11.525	1.92	2.1	3.05	13.6
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	67	20.	19.	30.	2.	60.121	7.754	5.6	16.	23.	30.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-06/17/80	15	22.	22.667	32.	11.	25.381	5.038	15.8	20.	25.	30.8
00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	08/05/87-08/05/87	1	9.9	9.9	9.9	9.9	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	85	7.8	7.468	27.5	3.9	6.616	2.572	5.2	6.3	8.2	8.44
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/16/74-07/20/77	4	99.5	95.5	101.	82.	81.667	9.037	**	**	**	**
00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	07/16/74-07/29/75	2	26.	26.	30.	22.	32.	5.657	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	06/17/80-06/17/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/29/75-08/29/94	83	7.2	7.148	8.9	5.4	0.914	0.956	5.7	6.3	8.	8.3
00400	CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	83	7.2	6.324	8.9	5.4	1.601	1.265	5.7	6.3	8.	8.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	83	0.063	0.474	3.981	0.001	0.741	0.861	0.005	0.01	0.501	1.995
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/29/75-07/31/79	15	7.	6.8	11.	6.	1.6	1.265	6.	6.	7.	8.6
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/75-07/31/79	15	0.	0.333	1.	0.	0.238	0.488	0.	0.	1.	1.
00500	RESIDUE, TOTAL (MG/L)	07/31/78-08/29/94	5	27.	26.8	36.	15.	74.7	8.643	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	06/17/80-08/04/82	2	15.5	15.5	17.	14.	4.5	2.121	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	06/17/80-08/04/82	2	9.	9.	17.	1.	128.	11.314	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/29/75-07/29/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	2 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/31/78-08/29/94	5	1.	1.5	3.	0.5	1.	1.	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/17/80-08/04/82	2 ##	1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/17/80-08/04/82	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	07/29/75-07/29/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	13 ##	0.025	0.03	0.12	0.005	0.001	0.029	0.007	0.018	0.025	0.088
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	06/17/80-08/12/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	13	0.2	0.185	0.6	0.1	0.018	0.134	0.1	0.1	0.2	0.44
00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	06/17/80-08/12/81	1	1000.	1000.	1000.	1000.	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	13 ##	0.025	0.035	0.2	0.005	0.003	0.05	0.007	0.02	0.025	0.13
00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	06/17/80-08/12/81	1 ##	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/29/75	2	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/29/75-07/29/75	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-08/29/94	13 ##	0.025	0.02	0.025	0.005	0.	0.009	0.005	0.01	0.025	0.025
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/12/81-08/04/82	2 ##	0.013	0.013	0.02	0.005	0.	0.011	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	06/17/80-08/12/81	1	170.	170.	170.	170.	0.	0.	**	**	**	**
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	07/16/74-07/29/75	2 ##	0.02	0.02	0.02	0.02	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: GRSM0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00740	SULFITE (MG/L AS SO3)	07/29/75-07/29/75	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/29/75	2	165.	165.	270.	60.	22050.	148.492	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	07/07/77-08/04/82	9 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01027	CADMIUM, TOTAL (UG/L AS CD)	07/29/75-08/04/82	10 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/29/75	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-08/04/82	10 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01037	COBALT, TOTAL (UG/L AS CO)	07/29/75-08/04/82	10 ##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01040	COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/29/75	2 ##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/16/74-08/04/82	11 ##	20.	27.273	100.	20.	581.818	24.121	20.	20.	20.	84.
01045	IRON, TOTAL (UG/L AS FE)	07/29/75-08/04/82	10 ##	50.	58.	100.	50.	306.667	17.512	50.	50.	57.5	98.
01051	LEAD, TOTAL (UG/L AS PB)	07/16/74-08/04/82	11 ##	50.	54.545	100.	50.	227.273	15.076	50.	50.	50.	90.
01055	MANGANESE, TOTAL (UG/L AS MN)	07/29/75-08/04/82	10 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01067	NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/29/75	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/16/74-08/04/82	11 ##	25.	38.636	110.	25.	940.455	30.667	25.	25.	25.	106.
01132	LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/29/75	2	17.5	17.5	20.	15.	12.5	3.536	**	**	**	**
31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	1	7.	7.	7.	7.	0.	0.	**	**	**	**
31508	LOG COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	1	0.845	0.845	0.845	0.845	0.	0.	**	**	**	**
31508	GM COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	GEOMETRIC MEAN =			7.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	19 ##	5.	3.737	13.	0.5	8.649	2.941	0.5	1.	5.	5.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	19 ##	0.699	0.41	1.114	-0.301	0.191	0.437	-0.301	0.	0.699	0.699
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			2.571								
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/12/81-08/29/94	4	3.	2.75	4.	1.	1.583	1.258	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	04/05/77-06/17/80	3	11.	10.667	16.	5.	30.333	5.508	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/29/75-06/17/80	4 ##	5.	5.75	13.	0.	28.917	5.377	**	**	**	**
32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/12/81-08/29/94	4 ##	1.25	1.25	2.	0.5	0.75	0.866	**	**	**	**
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/12/81-08/29/94	4	4.	3.75	5.	2.	1.583	1.258	**	**	**	**
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-06/17/80	5	10.	44.2	101.	5.	2645.7	51.436	**	**	**	**
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	7 ##	2.5	5.786	17.	2.5	34.488	5.873	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/74-07/29/75	2	50.	50.	50.	50.	0.	0.	**	**	**	**
70305	SALINITY BASED ON CONDUCTIVITY	07/16/74-07/29/75	2	0.3	0.3	0.6	0.	0.18	0.424	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-08/05/87	9 ##	0.025	0.019	0.025	0.005	0.	0.009	0.005	0.008	0.025	0.025
70511	PHOSPHORUS,ORTHO,IN BOTTOM DEPOS.(MG/KG-P DRY WT)	06/17/80-08/12/81	1 ##	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	07/16/74-08/04/82	11 ##	0.25	0.355	1.2	0.1	0.093	0.305	0.13	0.25	0.25	1.08

** - Less 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: GRSM0016

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	6	0	0.00				6	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	85	1	0.01				85	1	0.01						
00400	PH	Other-Hi Lim.	9.	83	0	0.00				83	0	0.00						
		Other-Lo Lim.	6.5	83	24	0.29				83	24	0.29						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	13	0	0.00				13	0	0.00						
00720	CYANIDE, TOTAL	Fresh Acute	0.022	2	0	0.00				2	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00				2	0	0.00						
		Drinking Water	50.	2	2	1.00				2	2	1.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	9	0	0.00				9	0	0.00						
		Drinking Water	50.	9	0	0.00				9	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	0 &	0	0.00												
		Drinking Water	5.	0 &	0	0.00												
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00				2	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	10	0	0.00				10	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00				2	0	0.00						
		Drinking Water	1300.	2	0	0.00				2	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	1 &	1	1.00				1	1	1.00						
		Drinking Water	1300.	11	0	0.00				11	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	11	1	0.09				11	1	0.09						
		Drinking Water	5.	1 &	1	1.00				1	1	1.00						

& - 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: GRSM0016

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	50.	2	0	0.00				2	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	11	0	0.00				11	0	0.00						
31508	COLIFORM, TOTAL, MPN, COMP. TEST, TUBE C	Other-Hi Lim.	1000.	1	0	0.00				1	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	19	0	0.00				19	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	11	0	0.00				11	0	0.00						
		Drinking Water	2.	11	0	0.00				11	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 1974 - Station GRSM0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	1	8.2	8.2	8.2	8.2	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 1975 - Station GRSM0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/29/75-08/29/94	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	1	0.04	0.04	0.04	0.04	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 GRSM0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	5	27.	23.6	31.	10.	71.8	8.473	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	5	8.	8.42	11.	7.4	2.232	1.494	**	**	**	**
00400	PH (STANDARD UNITS)	07/29/75-08/29/94	4	7.3	7.275	7.4	7.1	0.016	0.126	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	4	7.3	7.261	7.4	7.1	0.016	0.127	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	4	0.05	0.055	0.079	0.04	0.	0.017	**	**	**	**

** - Less 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 GRSM0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	5	28.	27.6	28.	27.	0.3	0.548	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	5	8.1	8.1	8.4	7.9	0.035	0.187	**	**	**	**
00400	PH (STANDARD UNITS)	07/29/75-08/29/94	5	8.8	8.8	8.9	8.7	0.01	0.1	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	5	8.8	8.791	8.9	8.7	0.01	0.101	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	5	0.002	0.002	0.002	0.001	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 1979 - Station GRSM0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	4	25.	25.	26.	24.	0.667	0.816	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	5	8.7	8.52	8.8	8.1	0.092	0.303	**	**	**	**
00400	PH (STANDARD UNITS)	07/29/75-08/29/94	5	7.4	7.46	8.2	7.	0.198	0.445	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	5	7.4	7.326	8.2	7.	0.22	0.47	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	5	0.04	0.047	0.1	0.006	0.001	0.034	**	**	**	**

** - Less 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 GRSM0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	1	25.1	25.1	25.1	25.1	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/29/75-08/29/94	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	1	0.079	0.079	0.079	0.079	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 1981 - Station GRSM0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	13	26.9	25.754	27.7	20.2	5.063	2.25	21.24	24.5	27.35	27.66
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	13	30.	29.154	30.	25.	2.141	1.463	26.2	28.5	30.	30.
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	13	8.	6.946	8.2	4.2	2.438	1.561	4.32	5.4	8.1	8.2
00400	PH (STANDARD UNITS)	07/29/75-08/29/94	13	8.1	7.354	8.3	5.6	1.221	1.105	5.68	6.05	8.2	8.3
00400	CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	13	8.1	6.321	8.3	5.6	2.376	1.541	5.68	6.05	8.2	8.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	13	0.008	0.477	2.512	0.005	0.656	0.81	0.005	0.006	0.945	2.141

** - Less 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 GRSM0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	15	25.2	23.593	26.4	16.	11.949	3.457	16.9	21.2	26.3	26.4
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	15	22.	20.867	24.	14.	9.838	3.137	14.6	19.	23.	24.
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	15	6.2	6.74	8.3	4.8	1.875	1.369	5.04	5.4	8.3	8.3
00400	PH (STANDARD UNITS)	07/29/75-08/29/94	15	6.4	7.	8.	6.2	0.729	0.854	6.2	6.2	8.	8.
00400	CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	15	6.4	6.514	8.	6.2	0.981	0.991	6.2	6.2	8.	8.
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	15	0.398	0.306	0.631	0.01	0.079	0.282	0.01	0.01	0.631	0.631

** - Less 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 GRSM0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	22	22.85	20.941	28.7	9.4	51.729	7.192	10.2	13.925	28.425	28.6
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	22	12.	10.636	18.	2.	37.195	6.099	2.	3.75	16.25	17.7
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	22	7.4	7.	9.1	3.9	1.808	1.344	4.37	6.325	7.825	8.56
00400	PH (STANDARD UNITS)	07/29/75-08/29/94	22	6.2	6.336	7.5	5.4	0.545	0.738	5.53	5.675	7.025	7.34
00400	CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	22	6.155	5.911	7.5	5.4	0.735	0.857	5.53	5.675	7.025	7.34
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	22	0.699	1.228	3.981	0.032	1.561	1.249	0.047	0.095	2.124	2.967

** - Less 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 1994 - Station GRSM0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	17	22.5	22.512	26.1	18.	7.587	2.755	18.4	20.	25.55	26.1
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	17	20.	20.412	25.	18.	3.632	1.906	18.	19.	22.	23.4
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	17	6.7	8.194	27.5	5.2	25.834	5.083	5.28	6.5	8.1	12.14
00400	PH (STANDARD UNITS)	07/29/75-08/29/94	17	7.5	7.553	8.3	6.7	0.333	0.577	6.78	7.05	8.2	8.3

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

Annual Analysis for 1994 - Station GRSM0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	17	7.5	7.247	8.3	6.7	0.432	0.657	6.78	7.05	8.2	8.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	17	0.032	0.057	0.2	0.005	0.004	0.062	0.005	0.006	0.09	0.167

** - Less 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: 4/01 to 9/30 - Station GRSM0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	84	25.15	23.407	31.	9.4	24.897	4.99	15.65	21.	27.	28.2
00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	17	2.3	5.371	50.	1.6	132.832	11.525	1.92	2.1	3.05	13.6
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	67	20.	19.	30.	2.	60.121	7.754	5.6	16.	23.	30.
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	85	7.8	7.468	27.5	3.9	6.616	2.572	5.2	6.3	8.2	8.44
00400	PH (STANDARD UNITS)	07/29/75-08/29/94	83	7.2	7.148	8.9	5.4	0.914	0.956	5.7	6.3	8.	8.3
00400	CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	83	7.2	6.324	8.9	5.4	1.601	1.265	5.7	6.3	8.	8.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	83	0.063	0.474	3.981	0.001	0.741	0.861	0.005	0.01	0.501	1.995
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	13 ##	0.025	0.03	0.12	0.005	0.001	0.029	0.007	0.018	0.025	0.088
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	13	0.2	0.185	0.6	0.1	0.018	0.134	0.1	0.1	0.2	0.44
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	13 ##	0.025	0.035	0.2	0.005	0.003	0.05	0.007	0.02	0.025	0.13
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-08/29/94	13 ##	0.025	0.02	0.025	0.005	0.	0.009	0.005	0.01	0.025	0.025
01027	CADMIUM, TOTAL (UG/L AS CD)	07/29/75-08/04/82	10 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-08/04/82	10 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01037	COBALT, TOTAL (UG/L AS CO)	07/29/75-08/04/82	10 ##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01042	COPPER, TOTAL (UG/L AS CU)	07/16/74-08/04/82	11 ##	20.	27.273	100.	20.	581.818	24.121	20.	20.	20.	84.
01045	IRON, TOTAL (UG/L AS FE)	07/29/75-08/04/82	10 ##	50.	58.	100.	50.	306.667	17.512	50.	50.	57.5	98.
01051	LEAD, TOTAL (UG/L AS PB)	07/16/74-08/04/82	11 ##	50.	54.545	100.	50.	227.273	15.076	50.	50.	50.	90.
01055	MANGANESE, TOTAL (UG/L AS MN)	07/29/75-08/04/82	10 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01092	ZINC, TOTAL (UG/L AS ZN)	07/16/74-08/04/82	11 ##	25.	38.636	110.	25.	940.455	30.667	25.	25.	25.	106.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	19 ##	5.	3.737	13.	0.5	8.649	2.941	0.5	1.	5.	5.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	19 ##	0.699	0.41	1.114	-0.301	0.191	0.437	-0.301	0.	0.699	0.699
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			2.571								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-08/05/87	9 ##	0.025	0.019	0.025	0.005	0.	0.009	0.005	0.008	0.025	0.025
71900	MERCURY, TOTAL (UG/L AS HG)	07/16/74-08/04/82	11 ##	0.25	0.355	1.2	0.1	0.093	0.305	0.13	0.25	0.25	1.08

** - Less 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: GRSM0017

NPS Station ID: GRSM0017
LAT/LON: 35.434726/ -83.647227
Agency: 21NC01WQ
Date Created: 07/11/87
Location: FONTANA LAKE ABOVE STECOAH CRK
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9240010 /LTN031DSUR
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010202
Depth of Water: 1
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE
ECO Region:
RF1 Index: 06010202
RF1 Mile Point: 0.000
Distance from RF1: 1.00
On/Off RF1:
RF3 Index: 06010202008100.00
RF3 Mile Point: 0.00
Distance from RF3: 0.12
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0017

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	08/05/87-08/05/87	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/05/87-08/05/87	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/05/87-08/05/87	1	0.398	0.398	0.398	0.398	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/05/87-08/05/87	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/05/87-08/05/87	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	08/05/87-08/05/87	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/05/87-08/05/87	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	08/05/87-08/05/87	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	08/05/87-08/05/87	1	0.63	0.63	0.63	0.63	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/05/87-08/05/87	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/05/87-08/05/87	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/05/87-08/05/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/05/87-08/05/87	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/05/87-08/05/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/05/87-08/05/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	08/05/87-08/05/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/05/87-08/05/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/05/87-08/05/87	1	50.	50.	50.	50.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/05/87-08/05/87	1 ##	0.1	0.1	0.1	0.1	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: GRSM0017

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	0 &	0	0.00												
		Drinking Water	5.	0 &	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						

& - 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: GRSM0017

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	5.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00				1	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0018

NPS Station ID: GRSM0018
LAT/LON: 35.434726/ -83.647227
Agency: 21NC01WQ
Date Created: 07/11/87
Location: FONTANA LAKE ABOVE STECOAH CRK
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9240020 /LTN031DBOT
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010202
Depth of Water: 1
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE
ECO Region:
RF1 Index: 06010202
RF1 Mile Point: 0.000
Distance from RF1: 0.30
On/Off RF1:
RF3 Index: 06010202007800.00
RF3 Mile Point: 0.00
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/05/87-08/29/94	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/05/87-08/29/94	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/05/87-08/29/94	1	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/05/87-08/29/94	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/05/87-08/05/87	1	0.01	0.01	0.01	0.01	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: GRSM0018

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0019

NPS Station ID: GRSM0019 LAT/LON: 35.435837/ -83.585560 Agency: 11EPALES Date Created: / /
Location: FONTANA LAKE FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 370403
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 06010202 Depth of Water: 240 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010202012 RF1 Mile Point: 0.100 Distance from RF1: 0.20 On/Off RF1: OFF
RF3 Index: 06010202000100.02 RF3 Mile Point: 0.02 Distance from RF3: 0.06 On/Off RF3:
Description:
EASTERN AREA, AT JUNCTION OF TUSKASEGEE AND LITTLE TENNESSEE RIVERS, NEAR LANDMARKER NO. 10, ABOUT 200 YDS. MILE 76 1/10 LITTLE TENNESSEE RIVER. COMMENTS: ULE 14; ONE PER CENT LIGHT AT 17 FT; CHANNEL A OFFSET EQUALS 28.11, PLUS 2.75; WATER SLIGHTLY TURBID (NOT AS CLEAR AS OTHER SITES)

Parameter Inventory for Station: GRSM0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/02/73-10/26/73	27	18.9	19.067	27.4	10.5	21.311	4.616	11.36	16.4	21.8	26.66
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	06/02/73-10/26/73	27	88.	79.	96.	23.	437.154	20.908	35.4	80.	91.	96.
00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/02/73-10/26/73	3	136.	128.667	180.	70.	3065.333	55.365	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/21/73-10/26/73	16	28.5	27.875	37.	20.	33.583	5.795	20.	22.25	32.5	36.3
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/02/73-06/02/73	10	48.	45.7	60.	25.	168.011	12.962	25.	36.25	56.5	59.8
00300	OXYGEN, DISSOLVED MG/L	06/02/73-10/26/73	24	5.6	5.808	9.6	1.6	5.376	2.319	2.5	4.	8.	8.85
00400	PH (STANDARD UNITS)	06/02/73-10/26/73	27	6.3	6.385	7.8	5.6	0.29	0.538	5.8	5.9	6.7	7.18
00400	CONVERTED PH (STANDARD UNITS)	06/02/73-10/26/73	27	6.3	6.152	7.8	5.6	0.346	0.588	5.8	5.9	6.7	7.18
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/02/73-10/26/73	27	0.501	0.705	2.512	0.016	0.408	0.639	0.07	0.2	1.259	1.585
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/02/73-10/26/73	21 ##	5.	7.	14.	5.	9.1	3.017	5.	5.	10.	11.8
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/02/73-10/26/73	21	0.21	0.36	1.72	0.04	0.186	0.432	0.06	0.07	0.365	1.17
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/02/73-10/26/73	20	0.35	0.485	1.9	0.1	0.263	0.513	0.1	0.1	0.6	1.46
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/02/73-10/26/73	21	0.36	0.412	0.83	0.12	0.051	0.226	0.136	0.24	0.605	0.76
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/02/73-10/26/73	20	0.01	0.015	0.053	0.006	0.	0.012	0.007	0.008	0.017	0.04
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/02/73-10/26/73	21	0.007	0.009	0.032	0.004	0.	0.007	0.005	0.005	0.009	0.022
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	06/02/73-10/26/73	3	2.3	2.567	3.2	2.2	0.303	0.551	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	06/02/73-10/26/73	3	230.	216.667	240.	180.	1033.333	32.146	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRSM0019

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	24	7	0.29	5	4	0.80	19	3	0.16						
00400	PH	Other-Hi Lim.	9.	27	0	0.00	6	0	0.00	21	0	0.00						
		Other-Lo Lim.	6.5	27	17	0.63	6	6	1.00	21	11	0.52						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	21	0	0.00	6	0	0.00	15	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: GRSM0020

NPS Station ID: GRSM0020 LAT/LON: 35.440837/ -83.566670 Agency: 131TVAC Date Created: 04/06/91
Location: FONTANA RESERVOIR - BELOW FORNEY CREEK FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 370162
RMI-Indexes: 1021500 007720 00920 8540 4030 Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 076.20 003.00
HUC: 06010203 Depth of Water: 0 Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN Elevation: 0 Water Body Id:
Minor Basin: TUCKASEEGEE RIVER 3.0 ECO Region:
RF1 Index: 06010203 RF1 Mile Point: 0.000 Distance from RF1: 1.20 On/Off RF1:
RF3 Index: 06010202000100.86 RF3 Mile Point: 0.86 Distance from RF3: 0.03 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0020

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/22/93-10/19/94	247	18.7	17.865	29.	7.3	30.247	5.5	10.5	13.	21.9	25.42
00019	SAMPLE WEIGHT IN GRAMS	11/17/93-11/17/93	10	537.	945.4	2774.	378.	611586.711	782.04	383.6	459.5	1404.5	2672.6
00039	SAMPLE LENGTH IN MILLIMETERS	11/17/93-11/17/93	10	391.5	417.4	567.	309.	8178.267	90.434	311.	347.	510.	565.2
00078	TRANSPARENCY, SECCHI DISC (METERS)	04/22/93-10/19/94	14	4.25	3.786	4.9	1.1	1.292	1.137	1.6	3.1	4.675	4.9
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/22/93-10/19/94	247	22.	22.834	38.	17.	9.667	3.109	19.	21.	24.	27.
00300	OXYGEN, DISSOLVED MG/L	04/22/93-10/19/94	247	7.4	7.351	11.1	0.1	5.31	2.304	4.7	6.6	8.8	10.12
00400	PH (STANDARD UNITS)	04/22/93-10/19/94	247	6.7	6.83	8.8	5.9	0.431	0.656	6.1	6.4	7.1	8.
00400	CONVERTED PH (STANDARD UNITS)	04/22/93-10/19/94	247	6.7	6.523	8.8	5.9	0.526	0.725	6.1	6.4	7.1	8.
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/22/93-10/19/94	247	0.2	0.3	1.259	0.002	0.087	0.295	0.01	0.079	0.398	0.794
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/22/93-08/18/94	4	0.105	0.118	0.2	0.06	0.004	0.062	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/22/93-08/18/94	5 ##	0.005	0.035	0.12	0.005	0.002	0.05	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/22/93-08/18/94	5	0.1	0.075	0.13	0.005	0.004	0.063	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/22/93-08/18/94	4	0.007	0.009	0.02	0.001	0.	0.008	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/22/93-08/18/94	4	0.004	0.004	0.005	0.001	0.	0.002	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/22/93-08/18/94	4	1.25	1.2	1.4	0.9	0.06	0.245	**	**	**	**
00745	SULFIDE, TOTAL (MG/L AS S)	08/18/94-08/18/94	3 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/16/93-08/16/93	1	2000.	2000.	2000.	2000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/16/93-08/16/93	1	8700.	8700.	8700.	8700.	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/16/93-08/16/93	1	33.	33.	33.	33.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/16/93-08/16/93	1	24.	24.	24.	24.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/16/93-08/16/93	1	690.	690.	690.	690.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	1	41.	41.	41.	41.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/16/93-08/16/93	1	1600.	1600.	1600.	1600.	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/16/93-08/16/93	1	39000.	39000.	39000.	39000.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/16/93-08/16/93	1	46000.	46000.	46000.	46000.	0.	0.	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/22/93-10/19/94	14	2.5	2.714	5.	1.	1.143	1.069	1.5	2.	3.25	4.5
32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	04/22/93-10/19/94	14 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	04/22/93-10/19/94	14 ##	0.5	0.643	1.	0.5	0.055	0.234	0.5	0.5	1.	1.
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/22/93-10/19/94	14 ##	0.5	0.643	1.	0.5	0.055	0.234	0.5	0.5	1.	1.
34257	B-BHC-BETA DRY WGTBOTUG/KG	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34354	ENDOSULFAN SULFATE DRY WGTBOTUG/KG	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34364	ENDOSULFAN, ALPHA DRY WGTBOTUG/KG	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34369	ENDRIN ALDEHYDE DRY WGTBOTUG/KG	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRSM0020

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	08/16/93-08/16/93	1	14.	14.	14.	14.	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/16/93-08/16/93	1 ##	250.	250.	250.	250.	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	08/16/93-08/16/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	08/16/93-08/16/93	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/16/93-08/16/93	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/16/93-08/16/93	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	08/16/93-08/16/93	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	08/16/93-08/16/93	1	39.2	39.2	39.2	39.2	0.	0.	**	**	**	**
70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	08/16/93-08/16/93	1	13.1	13.1	13.1	13.1	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/16/93-08/16/93	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	11/17/93-11/17/93	1	0.94	0.94	0.94	0.94	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	04/19/94-10/19/94	7	2.3	4.014	8.9	1.8	9.548	3.09	**	**	**	**
85664	WEIGHT, WET, OF FISH LIVER GRAMS	11/17/93-11/17/93	10	5.	12.8	44.	2.	214.4	14.642	2.	3.5	25.5	42.6
85665	WEIGHT, WET, FISH, RIGHT FILLET GRAMS	11/17/93-11/17/93	10	150.	241.2	696.	96.	35346.844	188.008	98.2	125.5	336.	667.2
85666	WEIGHT, WET, FISH, LEFT FILLET GRAMS	11/17/93-11/17/93	10	152.	237.4	678.	100.	32645.378	180.68	101.4	120.	331.	648.4

** - 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

EPA Water Quality Criteria Analysis for Station: GRSM0020

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	247	21	0.09	26	0	0.00	221	21	0.10						
00400	PH	Other-Hi Lim.	9.	247	0	0.00	26	0	0.00	221	0	0.00						
		Other-Lo Lim.	6.5	247	97	0.39	26	17	0.65	221	80	0.36						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	5	0	0.00				5	0	0.00						
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	7	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: GRSM0021

NPS Station ID: GRSM0021 LAT/LON: 35.441393/ -83.490837 Agency: 131TVAC Date Created: / /
Location: HEADWATER OF FONTANA DAM FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 360124 /4025
RMI-Indexes: 1021500 007720 00920 8540 4030 Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 076.20 009.00
HUC: 06010203 Depth of Water: 0 Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN Elevation: 0 Water Body Id:
Minor Basin: TUCKASEGEE RIVER 9 APPROXIMATE, VARIES ECO Region:
RF1 Index: 06010203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010203000901.21 RF3 Mile Point: 1.21 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/03/66-01/31/67	9	19.	17.322	26.5	5.9	47.457	6.889	5.9	11.4	22.95	26.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/66-01/31/67	9	910.	1211.111	3040.	640.	557986.111	746.985	640.	720.	1405.	3040.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/03/66-01/31/67	7	15.	22.857	50.	10.	190.476	13.801	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	05/03/66-01/31/67	9	50.	57.778	120.	25.	875.694	29.592	25.	32.5	75.	120.
00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)	05/03/66-01/31/67	9 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/03/66-01/31/67	9	49.	51.222	69.	32.	158.944	12.607	32.	42.	64.	69.
00300	OXYGEN, DISSOLVED MG/L	05/03/66-01/31/67	8	8.4	8.575	11.5	6.5	3.368	1.835	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	05/03/66-01/31/67	9	3.4	3.544	5.7	1.	2.405	1.551	1.	2.25	4.95	5.7
00335	COD, .025N K2CR2O7 MG/L	01/31/67-01/31/67	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/03/66-01/31/67	9	7.4	7.389	7.7	7.2	0.024	0.154	7.2	7.25	7.45	7.7
00400	CONVERTED PH (STANDARD UNITS)	05/03/66-01/31/67	9	7.4	7.366	7.7	7.2	0.024	0.156	7.2	7.25	7.45	7.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/03/66-01/31/67	9	0.04	0.043	0.063	0.02	0.	0.014	0.02	0.036	0.057	0.063
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/03/66-01/31/67	9	10.	12.	18.	6.	24.	4.899	6.	7.5	17.	18.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/03/66-01/31/67	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)	05/03/66-01/31/67	9	70.	73.333	110.	30.	775.	27.839	30.	50.	100.	110.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/03/66-01/31/67	9	30.	46.667	90.	20.	675.	25.981	20.	25.	70.	90.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	05/03/66-01/31/67	9	0.24	0.254	0.45	0.01	0.019	0.137	0.01	0.16	0.35	0.45
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/03/66-01/31/67	9	0.02	0.032	0.06	0.005	0.001	0.023	0.005	0.01	0.055	0.06
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/03/66-01/31/67	9 ##	0.005	0.007	0.01	0.005	0.	0.003	0.005	0.005	0.01	0.01
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/03/66-01/31/67	9	0.03	0.037	0.11	0.005	0.001	0.033	0.005	0.015	0.055	0.11
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/03/66-01/31/67	9	0.029	0.031	0.049	0.016	0.	0.012	0.016	0.021	0.043	0.049
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/03/66-01/31/67	9	0.013	0.012	0.026	0.003	0.	0.007	0.003	0.005	0.015	0.026
00916	CALCIUM, TOTAL (MG/L AS CA)	05/03/66-01/31/67	9	2.	2.	3.	1.5	0.25	0.5	1.5	1.5	2.25	3.
00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/03/66-01/31/67	9	1.5	1.389	3.	0.25	0.783	0.885	0.25	0.625	2.	3.
00929	SODIUM, TOTAL (MG/L AS NA)	05/03/66-01/31/67	9	9.8	7.422	11.1	3.4	13.062	3.614	3.4	3.4	10.7	11.1
00937	POTASSIUM, TOTAL MG/L AS K)	05/03/66-01/31/67	9	1.1	1.111	1.9	0.8	0.121	0.348	0.8	0.8	1.25	1.9
00940	CHLORIDE,TOTAL IN WATER MG/L	05/03/66-01/31/67	9	3.	6.	28.	2.	68.75	8.292	2.	3.	4.5	28.
00945	SULFATE, TOTAL (MG/L AS SO4)	05/03/66-01/31/67	9	1.	1.556	6.	0.5	2.965	1.722	0.5	0.75	1.5	6.
00956	SILICA, TOTAL (MG/L AS SI02)	05/03/66-01/31/67	9	7.5	7.622	9.3	6.3	0.967	0.983	6.3	6.75	8.45	9.3
01045	IRON, TOTAL (UG/L AS FE)	05/03/66-01/31/67	9	760.	717.778	1100.	380.	65569.444	256.065	380.	495.	935.	1100.
01047	IRON, FERROUS (UG/L AS FE)	05/03/66-01/31/67	9	150.	144.444	250.	50.	4027.778	63.465	50.	100.	200.	250.
01055	MANGANESE, TOTAL (UG/L AS MN)	05/03/66-01/31/67	9	70.	69.444	140.	5.	1352.778	36.78	5.	50.	90.	140.
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	05/03/66-01/31/67	9	36000.	47422.222	130000.	3600.	1892074444.444	43497.982	3600.	8600.	78000.	130000.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	05/03/66-01/31/67	9	4.556	4.44	5.114	3.556	0.296	0.544	3.556	3.917	4.883	5.114
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			27546.985								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	05/03/66-01/31/67	9	6200.	6277.778	16000.	1100.	28806944.444	5367.21	1100.	1350.	11000.	16000.
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	05/03/66-01/31/67	9	3.792	3.613	4.204	3.041	0.208	0.456	3.041	3.123	4.041	4.204
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			4105.529								

** - Less 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: GRSM0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	06/06/66-01/31/67	7	11.	12.143	19.	8.	13.476	3.671	**	**	**	**

** - Less 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: GRSM0021

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	7	1	0.14	3	0	0.00	4	1	0.25						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	8	0	0.00	3	0	0.00	5	0	0.00						
00400	PH	Other-Hi Lim.	9.	9	0	0.00	3	0	0.00	6	0	0.00						
		Other-Lo Lim.	6.5	9	0	0.00	3	0	0.00	6	0	0.00						
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	9	0	0.00	3	0	0.00	6	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	9	0	0.00	3	0	0.00	6	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	9	0	0.00	3	0	0.00	6	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	9	0	0.00	3	0	0.00	6	0	0.00						
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	9	9	1.00	3	3	1.00	6	6	1.00						
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	9	9	1.00	3	3	1.00	6	6	1.00						

& - 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: GRSM0022

NPS Station ID: GRSM0022 LAT/LON: 35.441670/ -83.725004 Agency: 21NC01WQ Date Created: 02/24/76
Location: FONTANA LAKE 2MI US HAZEL CK INACT-790731 FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): G9260000 /LTN031F
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 06010202 Depth of Water: 999 Aquifer:
Major Basin: SE Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER ECO Region:
RF1 Index: 06010202011 RF1 Mile Point: 1.870 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010202007800.00 RF3 Mile Point: 0.00 Distance from RF3: 0.04 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0022

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-07/31/79	17	27.	26.	30.	10.	19.625	4.43	21.2	25.5	28.	29.2
00023	SAMPLE WEIGHT IN POUNDS	07/16/74-07/29/75	2	27.	27.	27.	27.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/07/77-07/27/77	5	2.7	5.72	18.	1.6	47.977	6.927	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-07/31/79	16	2.95	5.522	50.	1.1	141.358	11.889	1.45	1.725	3.3	17.8
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-07/31/79	15	21.	23.467	39.	19.	29.981	5.475	19.6	20.	25.	34.2
00300	OXYGEN, DISSOLVED MG/L	07/16/74-07/31/79	18	8.3	8.411	10.	7.3	0.369	0.608	7.66	8.15	8.625	9.55
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/16/74-07/20/77	4	104.5	106.75	117.	101.	50.917	7.136	**	**	**	**
00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	07/16/74-07/29/75	2	26.	26.	31.	21.	50.	7.071	**	**	**	**
00400	PH (STANDARD UNITS)	07/29/75-07/31/79	16	7.8	7.856	8.7	7.3	0.244	0.494	7.3	7.325	8.275	8.63
00400	CONVERTED PH (STANDARD UNITS)	07/29/75-07/31/79	16	7.789	7.642	8.7	7.3	0.293	0.541	7.3	7.325	8.275	8.63
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-07/31/79	16	0.016	0.023	0.05	0.002	0.	0.019	0.002	0.005	0.048	0.05
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/29/75-07/31/79	16	6.	6.563	11.	5.	1.863	1.365	5.	6.	7.	8.2
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/75-07/31/79	14	0.	0.143	1.	0.	0.132	0.363	0.	0.	0.	1.
00500	RESIDUE, TOTAL (MG/L)	07/31/78-07/31/78	1	29.	29.	29.	29.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/29/75-07/29/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	2 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/31/78-07/31/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	07/29/75-07/29/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-07/31/79	8 ##	0.025	0.033	0.09	0.025	0.001	0.023	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-07/31/79	8	0.1	0.188	0.6	0.1	0.03	0.173	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-07/31/79	8 ##	0.025	0.044	0.18	0.025	0.003	0.055	**	**	**	**
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/29/75	2	8.4	8.4	8.6	8.2	0.08	0.283	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/29/75-07/29/75	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-07/31/79	8 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	07/16/74-07/29/75	2 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00740	SULFITE (MG/L AS SO3)	07/29/75-07/29/75	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/29/75	2	165.	165.	270.	60.	22050.	148.492	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	07/07/77-07/31/79	6 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/29/75-07/31/79	7 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/29/75	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-07/31/79	7 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	07/29/75-07/31/79	7 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/29/75	2 ##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/16/74-07/31/79	8 ##	20.	48.75	120.	20.	2041.071	45.178	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	07/29/75-07/31/79	7 ##	50.	54.286	80.	50.	128.571	11.339	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	07/16/74-07/31/79	8 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/29/75-07/31/79	7 ##	25.	32.857	80.	25.	432.143	20.788	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	1 ##	50.	50.	50.	50.	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: GRSM0022

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/29/75	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/16/74-07/31/79	8 ##	25.	63.125	160.	25.	3006.696	54.833	**	**	**	**
01132	LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/29/75	2	20.	20.	20.	20.	0.	0.	**	**	**	**
31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	1	7.	7.	7.	7.	0.	0.	**	**	**	**
31508	LOG COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	1	0.845	0.845	0.845	0.845	0.	0.	**	**	**	**
31508	GM COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	GEOMETRIC MEAN =			7.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-07/31/79	17 ##	2.5	4.618	31.	0.5	49.985	7.07	0.5	0.5	5.	10.2
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-07/31/79	17 ##	0.398	0.381	1.491	-0.301	0.267	0.516	-0.301	-0.301	0.699	0.857
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			2.402								
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	04/05/77-07/02/79	2 ##	12.	12.	19.	5.	98.	9.899	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/29/75-07/02/79	3	5.	8.	19.	0.	97.	9.849	**	**	**	**
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-07/02/79	4 ##	53.	54.25	106.	5.	3238.25	56.906	**	**	**	**
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	7 ##	2.5	7.857	25.	2.5	72.643	8.523	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/74-07/29/75	2	50.	50.	50.	50.	0.	0.	**	**	**	**
70305	SALINITY BASED ON CONDUCTIVITY	07/16/74-07/29/75	2	0.25	0.25	0.5	0.	0.125	0.354	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-07/02/79	5 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	07/16/74-07/31/79	8 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRSM0022

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	5	0	0.00				5	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	18	0	0.00				18	0	0.00						
00400	PH	Other-Hi Lim.	9.	16	0	0.00				16	0	0.00						
		Other-Lo Lim.	6.5	16	0	0.00				16	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	8	0	0.00				8	0	0.00						
00720	CYANIDE, TOTAL	Fresh Acute	0.022	2	0	0.00				2	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00				2	0	0.00						
		Drinking Water	50.	2	2	1.00				2	2	1.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	6	0	0.00				6	0	0.00						
		Drinking Water	50.	6	0	0.00				6	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	0 &	0	0.00												
		Drinking Water	5.	0 &	0	0.00												
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00				2	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	7	0	0.00				7	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00				2	0	0.00						
		Drinking Water	1300.	2	0	0.00				2	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	3 &	3	1.00				3	3	1.00						
		Drinking Water	1300.	8	0	0.00				8	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	8	0	0.00				8	0	0.00						
		Drinking Water	5.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	50.	2	0	0.00				2	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	8	1	0.13				8	1	0.13						
31508	COLIFORM, TOTAL, MPN, COMP. TEST, TUBE C	Other-Hi Lim.	1000.	1	0	0.00				1	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	17	0	0.00				17	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	8	0	0.00				8	0	0.00						
		Drinking Water	2.	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: GRSM0023

NPS Station ID: GRSM0023 LAT/LON: 35.442226/ -83.555281 Agency: 11EPALES Date Created: / /
Location: FONTANA LAKE FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 370404
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 06010203 Depth of Water: 145 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010203004 RF1 Mile Point: 1.810 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010202000100.56 RF3 Mile Point: 0.56 Distance from RF3: 0.13 On/Off RF3:
Description:
ON THE TUCKASEGEE ARM (NORTHEAST) NEARLY 4 MILES ABOVE JUNCTION WITH LITTLE TENNESSEE RIVER, 1/2 MILE ABOVE ENTRY OF FORNEY CREEK AT TIP OF POINT EXTENDING FROM SOUTH SHORE. MILE 76 1/10 LITTLE TENNESSEE RIVER. COMMENTS: 6-2, PROFILES REVEAL STEEP THERMAL SLOPE BETWEEN 5 AND 25 FT DEPTH AND STRONG TURBIDITY BAND 90 FT PLUS OR MINUS 20 FT; 141 FT NO DO

Parameter Inventory for Station: GRSM0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/02/73-10/26/73	25	20.1	19.224	26.7	10.1	19.367	4.401	11.32	16.85	21.25	25.86
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	06/02/73-10/26/73	25	83.	72.6	96.	1.	531.583	23.056	31.2	64.	84.5	94.
00077	TRANSPARENCY, SECCHI DISC (INCHES)	08/21/73-10/26/73	2	105.	105.	120.	90.	450.	21.213	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/21/73-10/26/73	16	33.	35.25	69.	23.	117.8	10.854	23.7	28.75	38.5	52.9
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/02/73-06/02/73	8	25.5	26.125	31.	21.	13.268	3.643	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/02/73-10/26/73	21	4.4	5.205	9.6	0.1	7.708	2.776	0.24	3.9	7.7	8.4
00400	PH (STANDARD UNITS)	06/02/73-10/26/73	24	6.2	6.208	7.3	5.3	0.344	0.587	5.35	5.725	6.7	6.95
00400	CONVERTED PH (STANDARD UNITS)	06/02/73-10/26/73	24	6.2	5.877	7.3	5.3	0.459	0.678	5.35	5.725	6.7	6.95
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/02/73-10/26/73	24	0.631	1.329	5.012	0.05	2.534	1.592	0.113	0.2	1.893	4.496
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/02/73-10/26/73	24 ##	5.	7.792	24.	5.	22.433	4.736	5.	5.	11.	13.5
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/02/73-10/26/73	24	0.51	0.649	1.62	0.16	0.129	0.36	0.355	0.443	0.722	1.385
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/02/73-10/26/73	24	0.85	1.179	3.1	0.5	0.564	0.751	0.6	0.7	1.6	2.65
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/02/73-10/26/73	24	0.325	0.431	0.96	0.07	0.062	0.248	0.18	0.26	0.72	0.755
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/02/73-10/26/73	24	0.016	0.031	0.19	0.008	0.002	0.043	0.008	0.011	0.028	0.098
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/02/73-10/26/73	24	0.006	0.007	0.016	0.003	0.	0.003	0.004	0.004	0.008	0.014
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	06/02/73-10/26/73	3	3.5	3.367	3.8	2.8	0.263	0.513	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	06/02/73-10/26/73	3	135.	134.	145.	122.	133.	11.533	**	**	**	**

** - Less 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: GRSM0023

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	21	6	0.29	6	3	0.50	15	3	0.20						
00400	PH	Other-Hi Lim.	9.	24	0	0.00	7	0	0.00	17	0	0.00						
		Other-Lo Lim.	6.5	24	16	0.67	7	7	1.00	17	9	0.53						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	24	0	0.00	7	0	0.00	17	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: GRSM0024

NPS Station ID: GRSM0024 LAT/LON: 35.443059/ -83.566670 Agency: 21NC01WQ Date Created: 02/24/76
Location: FONTANA LAKE @ TUCKASEGEE R @ BRYSON CITY FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): G9210000 /LTN031A
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 06010203 Depth of Water: 999 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010203004 RF1 Mile Point: 2.550 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010203000700.90 RF3 Mile Point: 0.90 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	93	25.	23.155	29.	11.7	21.981	4.688	15.74	19.75	26.9	28.
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/05/87-08/05/87	1	83.3	83.3	83.3	83.3	0.	0.	**	**	**	**
00023	SAMPLE WEIGHT IN POUNDS	07/16/74-07/31/75	6	27.	26.833	28.	26.	0.567	0.753	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/13/77-08/29/94	7	2.1	4.629	21.	0.5	52.732	7.262	**	**	**	**
00077	TRANSPARENCY, SECCHI DISC (INCHES)	08/12/81-08/04/82	2	160.	160.	170.	150.	200.	14.142	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	21	2.9	4.95	50.	1.6	107.049	10.346	1.8	2.	3.45	3.73
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	72	19.	19.653	31.	1.	43.751	6.614	10.6	16.	24.75	30.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-06/17/80	18	23.5	24.167	34.	12.	32.971	5.742	15.6	20.	30.	31.3
00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	08/05/87-08/05/87	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	94	7.6	6.847	9.1	0.6	4.101	2.025	3.9	6.075	8.3	8.7
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/16/74-08/05/87	9	101.	98.744	105.	79.	58.688	7.661	79.	98.85	102.5	105.
00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	07/16/74-07/31/75	5	31.	29.6	34.	22.	20.3	4.506	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	06/17/80-06/17/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/09/75-08/29/94	93	7.3	7.173	9.1	4.9	1.171	1.082	5.6	6.3	8.25	8.4
00400	CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	93	7.3	6.094	9.1	4.9	2.349	1.533	5.6	6.3	8.25	8.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	93	0.05	0.806	12.589	0.001	3.951	1.988	0.004	0.006	0.501	2.512
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/09/75-07/31/79	20	7.	7.25	13.	5.	2.829	1.682	6.	6.25	7.	9.8
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/09/75-07/31/79	17	0.	0.441	2.	0.	0.496	0.705	0.	0.	1.	2.
00500	RESIDUE, TOTAL (MG/L)	07/31/78-08/29/94	5	31.	40.8	82.	23.	563.2	23.732	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	06/17/80-08/04/82	2	12.5	12.5	14.	11.	4.5	2.121	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	06/17/80-08/04/82	2	14.5	14.5	20.	9.	60.5	7.778	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/09/75-07/29/75	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	2 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/31/78-08/29/94	5	1.	2.	6.	0.5	5.375	2.318	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/17/80-08/04/82	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/17/80-08/04/82	2 ##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	07/09/75-07/29/75	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	12 ##	0.025	0.028	0.11	0.005	0.001	0.027	0.005	0.014	0.025	0.086
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	12	0.15	0.179	0.6	0.05	0.021	0.144	0.065	0.1	0.2	0.48
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	12 ##	0.025	0.034	0.2	0.005	0.003	0.053	0.007	0.01	0.025	0.148
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/31/75	6	8.25	8.233	8.5	8.	0.031	0.175	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/29/75-07/29/75	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-08/29/94	12 ##	0.025	0.02	0.025	0.005	0.	0.008	0.007	0.013	0.025	0.025
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/12/81-08/04/82	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	07/16/74-07/06/78	3 ##	0.02	0.847	2.5	0.02	2.05	1.432	**	**	**	**
00740	SULFITE (MG/L AS SO3)	07/09/75-07/29/75	2	2.	2.	2.	2.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/30/75	5	160.	150.	270.	60.	8300.	91.104	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	07/27/77-08/04/82	8 ##	5.	5.	5.	5.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRSM0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01027	CADMIUM, TOTAL (UG/L AS CD)	07/29/75-08/04/82	9 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/31/75	6	0.	0.003	0.02	0.	0.	0.008	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-08/04/82	9 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01037	COBALT, TOTAL (UG/L AS CO)	07/29/75-08/04/82	9 ##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01040	COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/31/75	6	1.	0.833	1.	0.5	0.067	0.258	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/16/74-08/04/82	10 ##	20.	43.	170.	20.	2623.333	51.218	20.	20.	40.	163.
01045	IRON, TOTAL (UG/L AS FE)	07/29/75-08/04/82	9 ##	50.	61.111	100.	50.	486.111	22.048	50.	50.	75.	100.
01051	LEAD, TOTAL (UG/L AS PB)	07/16/74-08/04/82	10 ##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01055	MANGANESE, TOTAL (UG/L AS MN)	07/29/75-08/04/82	9 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01067	NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/30/75	5 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/16/74-08/04/82	10 ##	25.	35.	90.	25.	494.444	22.236	25.	25.	33.75	87.
01132	LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/31/75	6	45.	45.	100.	10.	990.	31.464	**	**	**	**
31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/09/75-07/31/75	5	7.	7.4	8.	7.	0.3	0.548	**	**	**	**
31508	LOG COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/09/75-07/31/75	5	0.845	0.868	0.903	0.845	0.001	0.032	**	**	**	**
31508	GM COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	GEOMETRIC MEAN =			7.384								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	24 ##	5.	302.979	7200.	0.5	2158139.467	1469.061	0.5	0.5	5.	5.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	24 ##	0.699	0.46	3.857	-0.301	0.734	0.856	-0.301	-0.301	0.699	0.699
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			2.881								
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/12/81-08/29/94	4	4.5	4.25	6.	2.	2.917	1.708	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	07/06/78-06/17/80	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/09/75-06/17/80	4 ##	2.5	2.5	5.	0.	8.333	2.887	**	**	**	**
32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/12/81-08/29/94	4 ##	0.5	0.625	1.	0.5	0.063	0.25	**	**	**	**
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/12/81-08/29/94	4	4.5	4.25	6.	2.	2.917	1.708	**	**	**	**
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-06/17/80	8	100.5	77.5	105.	5.	2005.714	44.785	**	**	**	**
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	5 ##	2.5	7.	25.	2.5	101.25	10.062	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/74-07/31/75	6	50.	50.	50.	50.	0.	0.	**	**	**	**
70305	SALINITY BASED ON CONDUCTIVITY	07/16/74-07/19/78	3	0.	0.267	0.8	0.	0.213	0.462	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/77-08/05/87	8 ##	0.025	0.019	0.025	0.005	0.	0.009	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	07/16/74-08/04/82	10 ##	0.25	0.31	1.	0.1	0.061	0.247	0.115	0.25	0.25	0.925

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EPA Water Quality Criteria Analysis for Station: GRSM0024

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	7	0	0.00				7	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	94	10	0.11				94	10	0.11						
00400	PH	Other-Hi Lim.	9.	93	1	0.01				93	1	0.01						
		Other-Lo Lim.	6.5	93	29	0.31				93	29	0.31						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	12	0	0.00				12	0	0.00						
00720	CYANIDE, TOTAL	Fresh Acute	0.022	2 &	0	0.00				2	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	5	0	0.00				5	0	0.00						
		Drinking Water	50.	5	5	1.00				5	5	1.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	8	0	0.00				8	0	0.00						
		Drinking Water	50.	8	0	0.00				8	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	0 &	0	0.00												
		Drinking Water	5.	0 &	0	0.00												
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	6	0	0.00				6	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	9	0	0.00				9	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	6	0	0.00				6	0	0.00						
		Drinking Water	1300.	6	0	0.00				6	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	2 &	2	1.00				2	2	1.00						
		Drinking Water	1300.	10	0	0.00				10	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	10	0	0.00				10	0	0.00						
		Drinking Water	5.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	50.	5	0	0.00				5	0	0.00						

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

EPA Water Quality Criteria Analysis for Station: GRSM0024

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01092	ZINC, TOTAL	Fresh Acute	120.	10	0	0.00				10	0	0.00						
31508	COLIFORM, TOTAL, MPN, COMP. TEST, TUBE C	Other-Hi Lim.	1000.	5	0	0.00				5	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	24	1	0.04				24	1	0.04						
71900	MERCURY, TOTAL	Fresh Acute	2.4	10	0	0.00				10	0	0.00						
		Drinking Water	2.	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

Annual Analysis for 1974 - Station GRSM0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	1	8.2	8.2	8.2	8.2	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 1975 - Station GRSM0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	5	27.	27.	28.	26.	0.5	0.707	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	5	8.3	8.24	8.5	8.	0.038	0.195	**	**	**	**
00400	PH (STANDARD UNITS)	07/09/75-08/29/94	5	7.3	7.44	7.8	7.3	0.048	0.219	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	5	7.3	7.403	7.8	7.3	0.05	0.223	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	5	0.05	0.04	0.05	0.016	0.	0.015	**	**	**	**

** - Less 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 GRSM0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	5	28.	26.6	29.	21.	10.3	3.209	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	5	8.1	8.02	8.8	7.1	0.377	0.614	**	**	**	**
00400	PH (STANDARD UNITS)	07/09/75-08/29/94	5	7.7	7.62	8.2	7.1	0.187	0.432	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	5	7.7	7.464	8.2	7.1	0.217	0.466	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	5	0.02	0.034	0.079	0.006	0.001	0.03	**	**	**	**

** - 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 box-and-whisker plot

Annual Analysis for 1978 - Station GRSM0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	5	27.	27.2	28.	27.	0.2	0.447	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	5	8.4	8.12	8.7	7.3	0.352	0.593	**	**	**	**
00400	PH (STANDARD UNITS)	07/09/75-08/29/94	5	8.9	8.76	9.1	8.4	0.088	0.297	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	5	8.9	8.68	9.1	8.4	0.096	0.31	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	5	0.001	0.002	0.004	0.001	0.	0.001	**	**	**	**

** - Less 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 GRSM0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	4	24.5	24.75	26.	24.	0.917	0.957	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	5	8.7	8.68	8.9	8.3	0.062	0.249	**	**	**	**
00400	PH (STANDARD UNITS)	07/09/75-08/29/94	5	7.4	7.72	8.4	7.2	0.337	0.581	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	5	7.4	7.489	8.4	7.2	0.403	0.635	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	5	0.04	0.032	0.063	0.004	0.001	0.027	**	**	**	**

** - Less 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 GRSM0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	1	8.9	8.9	8.9	8.9	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/09/75-08/29/94	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	1	0.008	0.008	0.008	0.008	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 1981 - Station GRSM0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	18	24.6	22.756	27.3	15.7	20.048	4.478	15.79	17.625	26.825	27.21
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	18	29.5	26.889	31.	19.	22.81	4.776	19.	20.75	31.	31.
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	18	6.6	6.733	9.1	4.2	2.787	1.669	4.2	5.35	8.625	8.74
00400	PH (STANDARD UNITS)	07/09/75-08/29/94	18	6.35	6.817	8.5	5.4	1.479	1.216	5.49	5.775	8.325	8.41
00400	CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	18	6.347	6.001	8.5	5.4	2.183	1.478	5.49	5.775	8.325	8.41
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	18	0.45	0.997	3.981	0.003	1.513	1.23	0.004	0.005	1.687	3.244

** - 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

Annual Analysis for 1982 - Station GRSM0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	19	23.9	21.242	26.	11.8	28.046	5.296	12.3	15.9	25.8	26.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	19	22.	20.368	26.	13.	22.579	4.752	14.	15.	25.	25.
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	19	6.2	5.811	8.2	0.6	5.834	2.415	1.3	4.1	7.9	8.2
00400	PH (STANDARD UNITS)	07/09/75-08/29/94	19	6.7	7.089	8.3	5.9	0.924	0.961	5.9	6.4	8.2	8.3
00400	CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	19	6.7	6.47	8.3	5.9	1.33	1.153	5.9	6.4	8.2	8.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	19	0.2	0.339	1.259	0.005	0.18	0.425	0.005	0.006	0.398	1.259

** - Less 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 GRSM0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	19	25.2	22.574	28.5	11.7	38.663	6.218	12.8	16.2	28.4	28.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	19	15.	13.105	19.	1.	27.766	5.269	7.	9.	18.	19.
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	19	6.2	5.521	7.9	0.7	5.738	2.396	1.6	3.5	7.8	7.9
00400	PH (STANDARD UNITS)	07/09/75-08/29/94	19	6.3	6.284	7.4	4.9	0.877	0.936	5.	5.4	7.3	7.4
00400	CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	19	6.3	5.592	7.4	4.9	1.383	1.176	5.	5.4	7.3	7.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	19	0.501	2.56	12.589	0.04	13.851	3.722	0.04	0.05	3.981	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 1994 - Station GRSM0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	16	22.4	22.331	26.2	18.5	7.169	2.677	18.64	19.775	25.2	25.85
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	16	18.	18.438	20.	17.	1.463	1.209	17.	17.25	20.	20.
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	16	7.5	7.794	8.8	7.1	0.433	0.658	7.1	7.2	8.375	8.8
00400	PH (STANDARD UNITS)	07/09/75-08/29/94	16	7.8	7.781	8.7	6.	0.526	0.725	6.7	7.25	8.4	8.63

** - Less 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 1994 - Station GRSM0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	16	7.789	7.063	8.7	6.	1.076	1.037	6.7	7.25	8.4	8.63
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	16	0.016	0.086	1.	0.002	0.06	0.245	0.002	0.004	0.057	0.37

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

Seasonal Analysis for Season #2: 4/01 to 9/30 - Station GRSM0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	93	25.	23.155	29.	11.7	21.981	4.688	15.74	19.75	26.9	28.
00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	21	2.9	4.95	50.	1.6	107.049	10.346	1.8	2.	3.45	3.73
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	72	19.	19.653	31.	1.	43.751	6.614	10.6	16.	24.75	30.
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	94	7.6	6.847	9.1	0.6	4.101	2.025	3.9	6.075	8.3	8.7
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/16/74-08/05/87	9	101.	98.744	105.	79.	58.688	7.661	79.	98.85	102.5	105.
00400	PH (STANDARD UNITS)	07/09/75-08/29/94	93	7.3	7.173	9.1	4.9	1.171	1.082	5.6	6.3	8.25	8.4
00400	CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	93	7.3	6.094	9.1	4.9	2.349	1.533	5.6	6.3	8.25	8.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	93	0.05	0.806	12.589	0.001	3.951	1.988	0.004	0.006	0.501	2.512
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	12 ##	0.025	0.028	0.11	0.005	0.001	0.027	0.005	0.014	0.025	0.086
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	12	0.15	0.179	0.6	0.05	0.021	0.144	0.065	0.1	0.2	0.48
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	12 ##	0.025	0.034	0.2	0.005	0.003	0.053	0.007	0.01	0.025	0.148
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-08/29/94	12 ##	0.025	0.02	0.025	0.005	0.	0.008	0.007	0.013	0.025	0.025
01027	CADMIUM, TOTAL (UG/L AS CD)	07/29/75-08/04/82	9 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-08/04/82	9 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01037	COBALT, TOTAL (UG/L AS CO)	07/29/75-08/04/82	9 ##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01042	COPPER, TOTAL (UG/L AS CU)	07/16/74-08/04/82	10 ##	20.	43.	170.	20.	2623.333	51.218	20.	20.	40.	163.
01045	IRON, TOTAL (UG/L AS FE)	07/29/75-08/04/82	9 ##	50.	61.111	100.	50.	486.111	22.048	50.	50.	75.	100.
01051	LEAD, TOTAL (UG/L AS PB)	07/16/74-08/04/82	10 ##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01055	MANGANESE, TOTAL (UG/L AS MN)	07/29/75-08/04/82	9 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01092	ZINC, TOTAL (UG/L AS ZN)	07/16/74-08/04/82	10 ##	25.	35.	90.	25.	494.444	22.236	25.	25.	33.75	87.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	24 ##	5.	302.979	7200.	0.5	2158139.467	1469.061	0.5	0.5	5.	5.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	24 ##	0.699	0.46	3.857	-0.301	0.734	0.856	-0.301	-0.301	0.699	0.699
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			2.881								
71900	MERCURY, TOTAL (UG/L AS HG)	07/16/74-08/04/82	10 ##	0.25	0.31	1.	0.1	0.061	0.247	0.115	0.25	0.25	0.925

** - Less 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: GRSM0025

NPS Station ID: GRSM0025 LAT/LON: 35.443059/ -83.566670 Agency: 21NC01WQ Date Created: 07/11/87
Location: FONTANA LK @ TUCKASEGEE R @ BRYSON CITY FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): G9210010 /LTN031ASUR
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 06010203 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESEE ECO Region:
RF1 Index: 06010203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010203003100.20 RF3 Mile Point: 0.79 Distance from RF3: 0.09 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	08/05/87-08/05/87	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/05/87-08/05/87	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/05/87-08/05/87	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/05/87-08/05/87	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/05/87-08/05/87	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	08/05/87-08/05/87	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/05/87-08/05/87	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	08/05/87-08/05/87	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	08/05/87-08/05/87	1	0.66	0.66	0.66	0.66	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/05/87-08/05/87	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/05/87-08/05/87	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/05/87-08/05/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/05/87-08/05/87	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/05/87-08/05/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/05/87-08/05/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	08/05/87-08/05/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/05/87-08/05/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/05/87-08/05/87	1	100.	100.	100.	100.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/05/87-08/05/87	1 ##	0.1	0.1	0.1	0.1	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: GRSM0025

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	0 &	0	0.00												
		Drinking Water	5.	0 &	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						

& - 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: GRSM0025

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	5.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00				1	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0026

NPS Station ID: GRSM0026 LAT/LON: 35.443059/ -83.566670 Agency: 21NC01WQ Date Created: 07/11/87
Location: FONTANA LAKE @ TUCKASEGEE R @ BRYSON CITY FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): G9210020 /LTN031ABOT
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 06010203 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010203 RF1 Mile Point: 0.000 Distance from RF1: 0.50 On/Off RF1:
RF3 Index: 06010203000100.40 RF3 Mile Point: 0.40 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0026

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: GRSM0027

NPS Station ID: GRSM0027
LAT/LON: 35.444448/ -83.777781
Agency: 21NC01WQ
Date Created: 02/24/76
Location: FONTANA LAKE BELOW HAZEL CRK
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9280000 /LTN031H
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010202
Depth of Water: 999
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE
ECO Region:
RF1 Index: 06010202010
RF1 Mile Point: 0.990
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010202000100.18
RF3 Mile Point: 0.17
Distance from RF3: 0.07
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	97	24.	22.319	30.	9.5	26.525	5.15	14.28	18.8	26.4	27.82
00023	SAMPLE WEIGHT IN POUNDS	07/16/74-07/29/75	2	27.	27.	27.	27.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/13/77-08/29/94	7	2.1	5.	24.	0.5	71.013	8.427	**	**	**	**
00077	TRANSPARENCY, SECCHI DISC (INCHES)	08/12/81-08/04/82	2	184.5	184.5	225.	144.	3280.5	57.276	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	19	2.7	5.363	50.	1.9	117.57	10.843	2.2	2.2	3.5	5.1
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	79	17.	16.81	28.	1.	38.566	6.21	7.	15.	20.	26.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-06/17/80	15	21.	21.867	32.	10.	25.267	5.027	15.4	20.	25.	30.8
00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	08/05/87-08/05/87	1	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	97	7.8	7.499	10.1	4.3	1.391	1.179	5.66	6.8	8.2	8.7
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/16/74-07/20/77	4	101.5	103.	109.	100.	16.667	4.082	**	**	**	**
00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	07/16/74-07/29/75	2	25.5	25.5	30.	21.	40.5	6.364	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	06/17/80-06/17/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/29/75-08/29/94	97	7.	6.955	8.9	5.2	0.96	0.98	5.58	6.	7.8	8.22
00400	CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	97	7.	6.137	8.9	5.2	1.636	1.279	5.58	6.	7.8	8.22
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	97	0.1	0.729	6.31	0.001	1.469	1.212	0.006	0.016	1.	2.642
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/29/75-07/31/79	16	6.	6.688	12.	5.	2.363	1.537	5.7	6.	7.	8.5
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/75-07/31/79	15	0.	0.267	1.	0.	0.21	0.458	0.	0.	1.	1.
00500	RESIDUE, TOTAL (MG/L)	07/31/78-08/29/94	5	31.	31.6	37.	25.	21.8	4.669	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	06/17/80-08/04/82	2	19.	19.	21.	17.	8.	2.828	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	06/17/80-08/04/82	2	12.	12.	16.	8.	32.	5.657	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/29/75-07/29/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	2 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/31/78-08/29/94	5	1.	1.6	5.	0.5	3.675	1.917	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/17/80-08/04/82	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/17/80-08/04/82	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	07/29/75-07/29/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	13 ##	0.025	0.033	0.1	0.005	0.001	0.028	0.007	0.018	0.038	0.092
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	06/17/80-06/17/80	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	13	0.1	0.188	0.6	0.05	0.022	0.147	0.07	0.1	0.25	0.48
00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	06/17/80-06/17/80	1	1900.	1900.	1900.	1900.	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	13 ##	0.025	0.04	0.18	0.005	0.003	0.051	0.005	0.015	0.025	0.156
00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	06/17/80-06/17/80	1 ##	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/29/75	2	8.5	8.5	8.8	8.2	0.18	0.424	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/29/75-07/29/75	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-08/29/94	13 ##	0.025	0.02	0.025	0.005	0.	0.009	0.005	0.01	0.025	0.025
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/12/81-08/04/82	2	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	06/17/80-06/17/80	1	260.	260.	260.	260.	0.	0.	**	**	**	**
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	07/16/74-07/29/75	2 ##	0.02	0.02	0.02	0.02	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: GRSM0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00740	SULFITE (MG/L AS SO3)	07/29/75-07/29/75	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/17/80-08/04/82	1	5600.	5600.	5600.	5600.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/29/75	2	165.	165.	270.	60.	22050.	148.492	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	07/07/77-08/04/82	9 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/17/80-08/04/82	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/29/75-08/04/82	10 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/17/80-08/04/82	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/17/80-08/04/82	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/29/75	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-08/04/82	10 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01037	COBALT, TOTAL (UG/L AS CO)	07/29/75-08/04/82	10 ##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/17/80-06/17/80	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/29/75	2 ##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/16/74-08/04/82	11 ##	20.	44.545	140.	20.	2307.273	48.034	20.	20.	50.	140.
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/17/80-08/04/82	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	07/29/75-08/04/82	10 ##	70.	74.	100.	50.	648.889	25.473	50.	50.	100.	100.
01051	LEAD, TOTAL (UG/L AS PB)	07/16/74-08/04/82	11 ##	50.	54.545	100.	50.	227.273	15.076	50.	50.	50.	90.
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/17/80-08/04/82	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/17/80-06/17/80	1	390.	390.	390.	390.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/29/75-08/04/82	10 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01067	NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/17/80-08/04/82	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/29/75	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/16/74-08/04/82	11 ##	25.	39.545	110.	25.	1052.273	32.439	25.	25.	25.	108.
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/17/80-08/04/82	1	88.	88.	88.	88.	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/17/80-08/04/82	1	26000.	26000.	26000.	26000.	0.	0.	**	**	**	**
01132	LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/29/75	2	20.	20.	20.	20.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/17/80-06/17/80	1	32000.	32000.	32000.	32000.	0.	0.	**	**	**	**
31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	1	7.	7.	7.	7.	0.	0.	**	**	**	**
31508	LOG COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	1	0.845	0.845	0.845	0.845	0.	0.	**	**	**	**
31508	GM COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	GEOMETRIC MEAN =			7.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	20 ##	2.5	2.925	5.	0.5	4.244	2.06	0.5	0.5	5.	5.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	20 ##	0.398	0.289	0.699	-0.301	0.21	0.459	-0.301	-0.301	0.699	0.699
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.944								
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/12/81-08/29/94	4	3.5	3.5	5.	2.	1.667	1.291	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	06/17/80-06/17/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/29/75-06/17/80	2 ##	2.5	2.5	5.	0.	12.5	3.536	**	**	**	**
32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/12/81-08/29/94	4 ##	0.75	0.75	1.	0.5	0.083	0.289	**	**	**	**
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/12/81-08/29/94	4	4.5	4.5	6.	3.	1.667	1.291	**	**	**	**
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-06/17/80	3	101.	73.333	109.	10.	3024.333	54.994	**	**	**	**
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	7 ##	2.5	5.	20.	2.5	43.75	6.614	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/74-07/29/75	2	50.	50.	50.	50.	0.	0.	**	**	**	**
70305	SALINITY BASED ON CONDUCTIVITY	07/16/74-07/29/75	2	0.25	0.25	0.5	0.	0.125	0.354	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-08/05/87	9 ##	0.025	0.019	0.025	0.005	0.	0.008	0.005	0.01	0.025	0.025
70511	PHOSPHORUS,ORTHO,IN BOTTOM DEPOS.(MG/KG-P DRY WT)	06/17/80-06/17/80	1 ##	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	07/16/74-08/04/82	11 ##	0.25	0.245	0.25	0.2	0.	0.015	0.21	0.25	0.25	0.25
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/17/80-08/04/82	1	0.07	0.07	0.07	0.07	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: GRSM0027

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	7	0	0.00				7	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	97	0	0.00				97	0	0.00						
00400	PH	Other-Hi Lim.	9.	97	0	0.00				97	0	0.00						
		Other-Lo Lim.	6.5	97	34	0.35				97	34	0.35						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	13	0	0.00				13	0	0.00						
00720	CYANIDE, TOTAL	Fresh Acute	0.022	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: GRSM0027

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00				2	0	0.00						
		Drinking Water	50.	2	2	1.00				2	2	1.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	9	0	0.00				9	0	0.00						
		Drinking Water	50.	9	0	0.00				9	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	0 &	0	0.00												
		Drinking Water	5.	0 &	0	0.00												
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00				2	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	10	0	0.00				10	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00				2	0	0.00						
		Drinking Water	1300.	2	0	0.00				2	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	3 &	3	1.00				3	3	1.00						
		Drinking Water	1300.	11	0	0.00				11	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	11	1	0.09				11	1	0.09						
		Drinking Water	5.	1 &	1	1.00				1	1	1.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	50.	2	0	0.00				2	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	11	0	0.00				11	0	0.00						
31508	COLIFORM, TOTAL, MPN, COMP. TEST, TUBE C	Other-Hi Lim.	1000.	1	0	0.00				1	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	20	0	0.00				20	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	11	0	0.00				11	0	0.00						
		Drinking Water	2.	11	0	0.00				11	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 1974 - Station GRSM0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	1	8.8	8.8	8.8	8.8	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 1975 - Station GRSM0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/29/75-08/29/94	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	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 box-and-whisker plot

Annual Analysis for 1977 - Station GRSM0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	5	28.	27.4	30.	24.	4.8	2.191	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	5	7.7	7.88	8.7	7.3	0.292	0.54	**	**	**	**
00400	PH (STANDARD UNITS)	07/29/75-08/29/94	5	7.3	7.38	7.9	7.	0.117	0.342	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	5	7.3	7.288	7.9	7.	0.128	0.357	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	5	0.05	0.051	0.1	0.013	0.001	0.033	**	**	**	**

** - 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 box-and-whisker plot

Annual Analysis for 1978 - Station GRSM0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	5	27.	27.6	29.	27.	0.8	0.894	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	5	8.1	8.02	8.2	7.7	0.037	0.192	**	**	**	**
00400	PH (STANDARD UNITS)	07/29/75-08/29/94	5	8.6	8.6	8.9	8.2	0.065	0.255	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	5	8.6	8.535	8.9	8.2	0.07	0.265	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	5	0.003	0.003	0.006	0.001	0.	0.002	**	**	**	**

** - Less 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 GRSM0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	4	24.	24.25	26.	23.	1.583	1.258	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	5	8.6	8.52	8.8	8.1	0.067	0.259	**	**	**	**
00400	PH (STANDARD UNITS)	07/29/75-08/29/94	5	7.5	7.6	8.3	7.2	0.19	0.436	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	5	7.5	7.469	8.3	7.2	0.211	0.46	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	5	0.032	0.034	0.063	0.005	0.001	0.023	**	**	**	**

** - Less 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 GRSM0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/29/75-08/29/94	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	1	0.063	0.063	0.063	0.063	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 1981 - Station GRSM0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	21	24.	22.348	27.7	14.6	21.611	4.649	15.14	17.25	26.45	27.04
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	21	24.	22.381	28.	14.	22.348	4.727	15.2	17.	26.5	27.
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	21	7.8	7.186	8.4	5.5	0.907	0.953	5.88	6.3	8.	8.26
00400	PH (STANDARD UNITS)	07/29/75-08/29/94	21	6.7	6.762	8.	5.6	0.976	0.988	5.6	5.75	7.85	7.9
00400	CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	21	6.7	6.077	8.	5.6	1.469	1.212	5.6	5.75	7.85	7.9
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	21	0.2	0.837	2.512	0.01	0.958	0.979	0.013	0.014	1.79	2.512

** - Less 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 GRSM0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	19	23.6	21.121	26.	11.1	29.104	5.395	12.2	15.7	26.	26.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	19	17.	15.579	21.	7.	23.813	4.88	8.	10.	20.	21.
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	19	8.1	7.974	9.4	6.7	0.61	0.781	7.	7.2	8.6	8.9
00400	PH (STANDARD UNITS)	07/29/75-08/29/94	19	6.9	6.826	8.1	5.2	0.984	0.992	5.4	5.9	7.8	7.9
00400	CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	19	6.9	6.025	8.1	5.2	1.662	1.289	5.4	5.9	7.8	7.9
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	19	0.126	0.943	6.31	0.008	2.698	1.643	0.013	0.016	1.259	3.981

** - Less 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 GRSM0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	22	22.5	20.527	28.2	9.5	48.289	6.949	10.17	13.55	27.725	28.17
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	21	14.	11.095	17.	1.	33.49	5.787	2.2	5.5	16.	17.
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	22	7.7	7.4	9.3	4.9	1.143	1.069	5.62	6.975	7.9	9.02
00400	PH (STANDARD UNITS)	07/29/75-08/29/94	22	6.25	6.273	7.7	5.4	0.588	0.767	5.5	5.5	6.9	7.47
00400	CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	22	6.182	5.835	7.7	5.4	0.788	0.888	5.5	5.5	6.9	7.47
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	22	0.658	1.462	3.981	0.02	2.157	1.469	0.034	0.126	3.162	3.162

** - Less 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 1994 - Station GRSM0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	18	21.9	21.817	25.3	17.8	6.859	2.619	18.25	19.425	24.9	25.3
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	18	18.	18.278	22.	16.	3.389	1.841	16.	17.	20.	21.1
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	17	6.6	6.735	10.1	4.3	3.23	1.797	4.54	4.85	8.1	8.98
00400	PH (STANDARD UNITS)	07/29/75-08/29/94	18	7.35	7.361	8.3	6.3	0.595	0.772	6.3	6.575	8.225	8.3

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

Annual Analysis for 1994 - Station GRSM0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	18	7.347	6.858	8.3	6.3	0.864	0.929	6.3	6.575	8.225	8.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	18	0.045	0.139	0.501	0.005	0.031	0.177	0.005	0.006	0.267	0.501

** - Less 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: 4/01 to 9/30 - Station GRSM0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	97	24.	22.319	30.	9.5	26.525	5.15	14.28	18.8	26.4	27.82
00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	19	2.7	5.363	50.	1.9	117.57	10.843	2.2	2.2	3.5	5.1
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	79	17.	16.81	28.	1.	38.566	6.21	7.	15.	20.	26.
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	97	7.8	7.499	10.1	4.3	1.391	1.179	5.66	6.8	8.2	8.7
00400	PH (STANDARD UNITS)	07/29/75-08/29/94	97	7.	6.955	8.9	5.2	0.96	0.98	5.58	6.	7.8	8.22
00400	CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	97	7.	6.137	8.9	5.2	1.636	1.279	5.58	6.	7.8	8.22
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	97	0.1	0.729	6.31	0.001	1.469	1.212	0.006	0.016	1.	2.642
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	13 ##	0.025	0.033	0.1	0.005	0.001	0.028	0.007	0.018	0.038	0.092
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	13	0.1	0.188	0.6	0.05	0.022	0.147	0.07	0.1	0.25	0.48
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	13 ##	0.025	0.04	0.18	0.005	0.003	0.051	0.005	0.015	0.025	0.156
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-08/29/94	13 ##	0.025	0.02	0.025	0.005	0.	0.009	0.005	0.01	0.025	0.025
01027	CADMIUM, TOTAL (UG/L AS CD)	07/29/75-08/04/82	10 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-08/04/82	10 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01037	COBALT, TOTAL (UG/L AS CO)	07/29/75-08/04/82	10 ##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01042	COPPER, TOTAL (UG/L AS CU)	07/16/74-08/04/82	11 ##	20.	44.545	140.	20.	2307.273	48.034	20.	20.	50.	140.
01045	IRON, TOTAL (UG/L AS FE)	07/29/75-08/04/82	10 ##	70.	74.	100.	50.	648.889	25.473	50.	50.	100.	100.
01051	LEAD, TOTAL (UG/L AS PB)	07/16/74-08/04/82	11 ##	50.	54.545	100.	50.	227.273	15.076	50.	50.	50.	90.
01055	MANGANESE, TOTAL (UG/L AS MN)	07/29/75-08/04/82	10 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01092	ZINC, TOTAL (UG/L AS ZN)	07/16/74-08/04/82	11 ##	25.	39.545	110.	25.	1052.273	32.439	25.	25.	25.	108.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	20 ##	2.5	2.925	5.	0.5	4.244	2.06	0.5	0.5	5.	5.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	20 ##	0.398	0.289	0.699	-0.301	0.21	0.459	-0.301	-0.301	0.699	0.699
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.944								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-08/05/87	9 ##	0.025	0.019	0.025	0.005	0.	0.008	0.005	0.01	0.025	0.025
71900	MERCURY, TOTAL (UG/L AS HG)	07/16/74-08/04/82	11 ##	0.25	0.245	0.25	0.2	0.	0.015	0.21	0.25	0.25	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

Station Inventory for Station: GRSM0028

NPS Station ID: GRSM0028
LAT/LON: 35.444448/ -83.777781
Agency: 21NC01WQ
Date Created: 07/11/87
Location: FONTANA LAKE BELOW HAZEL CRK
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9280010 /LTN031HSUR
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010202
Depth of Water: 1
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE
ECO Region:
RF1 Index: 06010202
RF1 Mile Point: 0.000
Distance from RF1: 0.30
On/Off RF1:
RF3 Index: 06010202007800.00
RF3 Mile Point: 0.00
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	08/05/87-08/05/87	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/05/87-08/05/87	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/05/87-08/05/87	1	0.398	0.398	0.398	0.398	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/05/87-08/05/87	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/05/87-08/05/87	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	08/05/87-08/05/87	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/05/87-08/05/87	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	08/05/87-08/05/87	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	08/05/87-08/05/87	1	0.67	0.67	0.67	0.67	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/05/87-08/05/87	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/05/87-08/05/87	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/05/87-08/05/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/05/87-08/05/87	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/05/87-08/05/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/05/87-08/05/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	08/05/87-08/05/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/05/87-08/05/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/05/87-08/05/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/05/87-08/05/87	1 ##	0.1	0.1	0.1	0.1	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: GRSM0028

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	0 &	0	0.00												
		Drinking Water	5.	0 &	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						

& - 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: GRSM0028

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	5.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00				1	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0029

NPS Station ID: GRSM0029
LAT/LON: 35.444448/ -83.777781
Agency: 21NC01WQ
Date Created: 07/11/87
Location: FONTANA LAKE BELOW HAZEL CRK
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9280020 /LTN031HBOT
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010202
Depth of Water: 1
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE
ECO Region:
RF1 Index: 06010202
RF1 Mile Point: 0.000
Distance from RF1: 0.50
On/Off RF1:
RF3 Index: 06010202007600.00
RF3 Mile Point: 0.00
Distance from RF3: 0.11
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/05/87-08/29/94	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/05/87-08/29/94	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/05/87-08/29/94	1	0.18	0.18	0.18	0.18	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/05/87-08/29/94	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/05/87-08/05/87	1	0.01	0.01	0.01	0.01	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: GRSM0029

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0030

NPS Station ID: GRSM0030 | LAT/LON: 35.445003/ -83.726949 | Agency: 11EPALES | Date Created: / /
Location: FONTANA LAKE | FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE | STORET Station ID(s): 370402
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 06010202 | Depth of Water: 170 | Aquifer:
Major Basin: | Elevation: 0 | Water Body Id:
Minor Basin: | ECO Region:
RF1 Index: 06010202011 | RF1 Mile Point: 1.760 | Distance from RF1: 0.00 | On/Off RF1: OFF
RF3 Index: 06010202000100.64 | RF3 Mile Point: 0.64 | Distance from RF3: 0.02 | On/Off RF3:
Description:
CENTRAL AREA OF LAKE, DUE WEST OF ISLAND, ABOUT MID-CHANNEL. MILE 65 9/ 10 LITTLE TENNESSEE RIVER.
COMMENTS: 6-2 ULE 12; 1% LIGHT AT 27 FT; WATER IS VERY CLEAR, GREENISH IN APPEARANCE. 8-21 ULE 13, NO SURF ALGAE OR HIGHER AQUATICS, 1% LIGHT AT 25 FT, INTEGRATED 30 FT TO SURF.

Parameter Inventory for Station: GRSM0030

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/02/73-10/26/73	25	20.2	19.5	26.7	11.3	16.925	4.114	12.82	17.25	21.85	26.22
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	06/02/73-10/26/73	25	95.	92.04	98.	83.	29.957	5.473	84.	85.	96.	97.
00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/02/73-10/26/73	3	162.	146.	180.	96.	1956.	44.227	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/21/73-10/26/73	17	26.	25.529	30.	19.	8.89	2.982	20.6	23.5	28.	29.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/02/73-06/02/73	8	51.	50.125	58.	45.	17.839	4.224	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/02/73-10/26/73	22	4.6	5.064	9.4	0.2	7.144	2.673	0.86	3.55	7.6	7.94
00400	PH (STANDARD UNITS)	06/02/73-10/26/73	25	6.3	6.324	6.9	5.8	0.14	0.374	5.8	5.9	6.7	6.84
00400	CONVERTED PH (STANDARD UNITS)	06/02/73-10/26/73	25	6.3	6.174	6.9	5.8	0.164	0.405	5.8	5.9	6.7	6.84
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/02/73-10/26/73	25	0.501	0.67	1.585	0.126	0.313	0.559	0.145	0.2	1.292	1.585
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/02/73-10/26/73	21 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/02/73-10/26/73	21	0.16	0.147	0.42	0.03	0.011	0.105	0.03	0.055	0.185	0.326
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/02/73-10/26/73	21	0.2	0.229	0.6	0.1	0.029	0.171	0.1	0.1	0.35	0.58
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/02/73-10/26/73	21	0.74	0.615	0.97	0.24	0.06	0.245	0.256	0.345	0.775	0.926
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/02/73-10/26/73	21	0.007	0.008	0.017	0.006	0.	0.003	0.006	0.006	0.009	0.011
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/02/73-10/26/73	21	0.006	0.006	0.01	0.003	0.	0.002	0.004	0.004	0.008	0.01
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	06/02/73-10/26/73	3	2.3	2.833	4.7	1.5	2.773	1.665	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	06/02/73-10/26/73	3	170.	173.333	200.	150.	633.333	25.166	**	**	**	**

** - Less 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: GRSM0030

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	22	7	0.32	7	2	0.29	15	5	0.33						
00400	PH	Other-Hi Lim.	9.	25	0	0.00	8	0	0.00	17	0	0.00						
		Other-Lo Lim.	6.5	25	17	0.68	8	8	1.00	17	9	0.53						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	21	0	0.00	8	0	0.00	13	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: GRSM0031

NPS Station ID: GRSM0031 LAT/LON: 35.447226/ -83.816949 Agency: 112WRD Date Created: / /
Location: LITTLE TENN R AT NC 28 BL FONTANA DAM N C FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 03515007
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010204036 RF1 Mile Point: 9.080 Distance from RF1: 1.30 On/Off RF1: OFF
RF3 Index: 06010202000100.31 RF3 Mile Point: 0.31 Distance from RF3: 0.18 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/17/72-07/26/73	2	10.5	10.5	14.	7.	24.5	4.95	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	01/23/73-09/06/73	4	5.	4.5	5.	3.	1.	1.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/23/73-09/06/73	4	23.	23.	25.	21.	3.333	1.826	**	**	**	**
00400	PH (STANDARD UNITS)	01/23/73-09/06/73	4	6.25	6.3	6.6	6.1	0.047	0.216	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/23/73-09/06/73	4	6.247	6.264	6.6	6.1	0.048	0.22	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/23/73-09/06/73	4	0.566	0.544	0.794	0.251	0.053	0.229	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	01/23/73-09/06/73	4	5.2	5.475	9.1	2.4	8.542	2.923	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/23/73-09/06/73	4	4.5	5.	7.	4.	2.	1.414	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	01/23/73-09/06/73	4	5.5	6.25	9.	5.	3.583	1.893	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	01/23/73-05/10/73	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	01/23/73-09/06/73	4 ##	0.038	0.035	0.06	0.005	0.001	0.029	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	01/23/73-09/06/73	4	0.1	0.106	0.22	0.005	0.012	0.11	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/23/73-09/06/73	4 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/23/73-09/06/73	4	0.5	0.495	0.57	0.41	0.005	0.068	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/23/73-05/10/73	3	0.05	0.047	0.06	0.03	0.	0.015	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/06/73-09/06/73	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/23/73-09/06/73	4	7.	6.5	7.	5.	1.	1.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/23/73-09/06/73	4	2.5	2.	3.	0.	2.	1.414	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/23/73-09/06/73	4	1.9	1.7	2.	1.	0.227	0.476	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/23/73-09/06/73	4	0.55	0.525	0.6	0.4	0.009	0.096	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	01/23/73-09/06/73	4	1.25	1.175	1.6	0.6	0.176	0.419	**	**	**	**
00931	SODIUM ADSORPTION RATIO	01/23/73-09/06/73	4	0.2	0.2	0.3	0.1	0.007	0.082	**	**	**	**
00932	SODIUM, PERCENT	01/23/73-09/06/73	4	26.5	26.	36.	15.	74.	8.602	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	01/23/73-09/06/73	4	0.6	0.625	0.9	0.4	0.049	0.222	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	01/23/73-09/06/73	4	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	01/23/73-09/06/73	4	4.	3.75	5.	2.	2.25	1.5	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/23/73-09/06/73	4	5.75	5.9	6.5	5.6	0.167	0.408	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	01/23/73-09/06/73	3	30.	88.333	210.	25.	11108.333	105.396	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/15/73-09/06/73	3	100.	220.	500.	60.	59200.	243.311	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/23/73-09/06/73	4	20.	20.	27.	13.	32.667	5.715	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/23/73-09/06/73	4	20.5	21.	24.	19.	4.667	2.16	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/23/73-09/06/73	4	0.03	0.03	0.04	0.02	0.	0.008	**	**	**	**
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	01/23/73-09/06/73	3	0.23	0.18	0.28	0.03	0.018	0.132	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	01/23/73-09/06/73	4	2.2	2.175	2.5	1.8	0.089	0.299	**	**	**	**

** - Less 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: GRSM0031

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	4	0	0.00	2	0	0.00	2	0	0.00						
		Other-Lo Lim.	6.5	4	3	0.75	2	2	1.00	2	1	0.50						
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	4	0	0.00	2	0	0.00	2	0	0.00						
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	4	0	0.00	2	0	0.00	2	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	4	0	0.00	2	0	0.00	2	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	4	0	0.00	2	0	0.00	2	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	4	0	0.00	2	0	0.00	2	0	0.00						

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

Station Inventory for Station: GRSM0032

NPS Station ID: GRSM0032 LAT/LON: 35.447226/ -83.817505 Agency: 21NC01WQ Date Created: 12/03/88
Location: LAKE CHEOAH AT NC HWY 28 NR FONTANA VILLAGE NC FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): G9350000 /LTN032B
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 06010204 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 9.10 On/Off RF1:
RF3 Index: 06010204004700.57 RF3 Mile Point: 0.67 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/88-08/10/94	6	11.05	10.967	13.1	8.7	5.311	2.304	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/27/88-08/10/94	2	2.	2.	2.6	1.4	0.72	0.849	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	07/27/88-08/10/94	2	3.15	3.15	3.3	3.	0.045	0.212	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/27/88-08/10/94	6	19.	19.	20.	18.	1.2	1.095	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/27/88-08/10/94	6	9.5	9.467	9.9	9.	0.199	0.446	**	**	**	**
00400	PH (STANDARD UNITS)	07/27/88-08/10/94	6	6.55	6.6	7.3	6.1	0.28	0.529	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/27/88-08/10/94	6	6.422	6.381	7.3	6.1	0.338	0.581	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/88-08/10/94	6	0.378	0.416	0.794	0.05	0.13	0.361	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	07/27/88-08/10/94	2	35.	35.	40.	30.	50.	7.071	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/27/88-08/10/94	2	2.	2.	3.	1.	2.	1.414	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	2	0.03	0.03	0.04	0.02	0.	0.014	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-08/10/94	2	0.17	0.17	0.18	0.16	0.	0.014	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-08/10/94	2	0.015	0.015	0.02	0.01	0.	0.007	**	**	**	**
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/88-08/10/94	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	07/27/88-08/10/94	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	07/27/88-08/10/94	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	1 ##	0.005	0.005	0.005	0.005	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: GRSM0032

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a 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.	6	0	0.00				6	0	0.00						
00400	PH	Other-Hi Lim.	9.	6	0	0.00				6	0	0.00						
		Other-Lo Lim.	6.5	6	3	0.50				6	3	0.50						
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

Station Inventory for Station: GRSM0033

NPS Station ID: GRSM0033 LAT/LON: 35.447226/ -83.817505 Agency: 21NC01WQ Date Created: 12/03/88
Location: LAKE CHEOAH AT NC HWY 28 NR FONTANA VILLAGE NC FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): G9350010 /LTN032BSUR
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 06010204 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 2.90 On/Off RF1:
RF3 Index: 06010204003607.26 RF3 Mile Point: 7.26 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	07/27/88-07/27/88	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/27/88-07/27/88	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/88-07/27/88	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/27/88-07/27/88	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	07/27/88-07/27/88	1	5.	5.	5.	5.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0033

				Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
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

Station Inventory for Station: GRSM0034

NPS Station ID: GRSM0034 | LAT/LON: 35.447226/ -83.817505 | Agency: 21NC01WQ | Date Created: 12/03/88
Location: LAKE CHEOAH AT NC HWY 28 NEAR FONTANA VILLAGE NC | FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE | STORET Station ID(s): G9350020 /LTN032BBOT
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 06010204 | Depth of Water: 1 | Aquifer:
Major Basin: SOUTHEAST | Elevation: 0 | Water Body Id:
Minor Basin: LITTLE TENNESSEE | ECO Region:
RF1 Index: 06010204 | RF1 Mile Point: 0.000 | Distance from RF1: 2.90 | On/Off RF1:
RF3 Index: 06010204003607.26 | RF3 Mile Point: 7.26 | Distance from RF3: 0.01 | On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0034

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: GRSM0035

NPS Station ID: GRSM0035
LAT/LON: 35.447781/ -83.783338
Agency: 131TVAC
Date Created: / /
Location: FONTANA RESERVOIR
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/FISH/STREAM/SOLIDS
STORET Station ID(s): 360265 /3947
RMI-Indexes: 1021500 007720 00920 8540
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 062.50
HUC: 06010202
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 62.5
ECO Region:
RF1 Index: 06010202003
RF1 Mile Point: 2.340
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 06010204003101.36
RF3 Mile Point: 1.62
Distance from RF3: 0.06
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00019	SAMPLE WEIGHT IN GRAMS	09/23/87-11/25/88	10	490.5	532.5	1007.	317.	41239.389	203.075	319.5	410.25	600.25	979.6
00039	SAMPLE LENGTH IN MILLIMETERS	09/23/87-11/25/88	10	408.	411.8	486.	355.	1495.067	38.666	356.4	381.75	439.5	482.4
00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	06/27/73-06/27/73	1	65600.	65600.	65600.	65600.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	06/27/73-06/27/73	1	620.	620.	620.	620.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/27/73-06/27/73	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/27/73-06/27/73	1	130.	130.	130.	130.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/27/73-06/27/73	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/27/73-06/27/73	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/27/73-06/27/73	1	23.	23.	23.	23.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/27/73-06/27/73	1	33.	33.	33.	33.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/27/73-06/27/73	1	430.	430.	430.	430.	0.	0.	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	06/27/73-06/27/73	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/27/73-06/27/73	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	06/27/73-06/27/73	1 ##	1.75	1.75	1.75	1.75	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/27/73-06/27/73	1 ##	18.	18.	18.	18.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/27/73-06/27/73	1	90.	90.	90.	90.	0.	0.	**	**	**	**
01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/27/73-06/27/73	1 ##	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	06/27/73-06/27/73	1 ##	35.5	35.5	35.5	35.5	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/27/73-06/27/73	1	16000.	16000.	16000.	16000.	0.	0.	**	**	**	**
01133	LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	06/27/73-06/27/73	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/27/73-06/27/73	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/27/73-06/27/73	1	27000.	27000.	27000.	27000.	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/27/73-06/27/73	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
80111	NITROGEN, TOTAL IN DRIED MATERIAL (MG/KG)	06/27/73-06/27/73	1	4300.	4300.	4300.	4300.	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

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

Station Inventory for Station: GRSM0036

NPS Station ID: GRSM0036
LAT/LON: 35.448059/ -83.938615
Agency: 131TVAC
Date Created: / /
Location: CHEOH DAM PENSTOCK
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 360216 /3938
RMI-Indexes: 1021500 007720 00920 8540
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 601.10 051.40
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 51.40
ECO Region:
RF1 Index: 06010204036
RF1 Mile Point: 0.210
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010204002013.24
RF3 Mile Point: 13.24
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0036

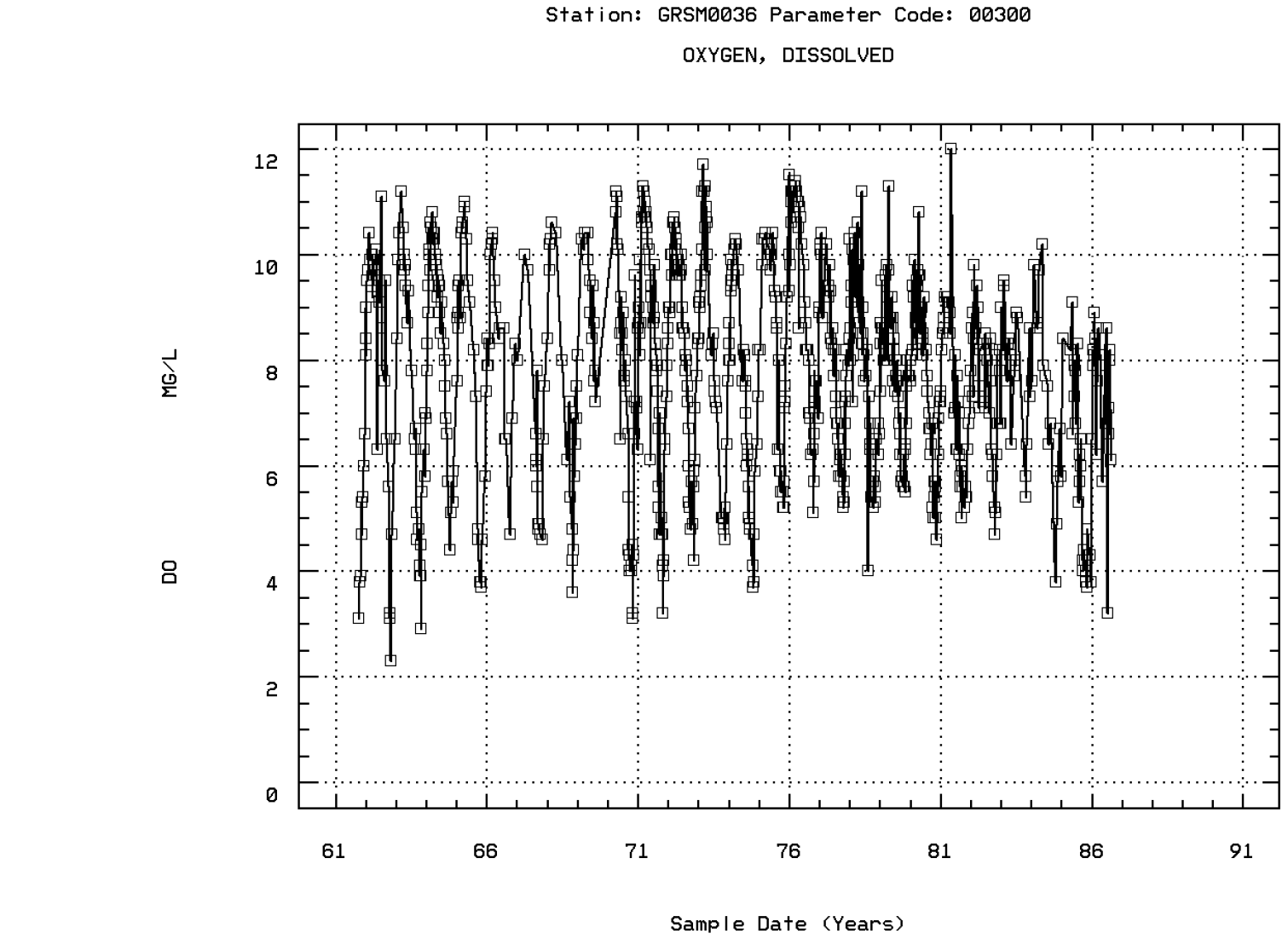
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	819	11.	11.501	22.	4.5	15.596	3.949	7.	8.	15.	17.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/68-08/12/86	601	6052.	5774.2	18630.	400.	4096978.78	2024.099	2832.	4564.	7275.	7993.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/04/74-01/17/77	38	3.5	3.595	7.3	1.	2.35	1.533	1.49	2.5	4.85	5.33
00080	COLOR (PLATINUM-COBALT UNITS)	02/04/74-01/17/77	38	5.	6.382	13.	2.	11.317	3.364	2.	4.75	10.	12.
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	02/04/74-01/17/77	38	14.5	14.105	25.	4.	29.718	5.451	7.	10.	17.25	23.1
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/04/74-01/17/77	38	22.5	23.921	46.	19.	24.831	4.983	19.	21.	25.25	29.3
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	820	8.05	7.791	12.	2.3	3.856	1.964	5.	6.3	9.4	10.2
00310	BOD, 5 DAY, 20 DEG C MG/L	03/18/76-11/10/76	3 ##	0.5	0.667	1.	0.5	0.083	0.289	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	02/04/74-01/17/77	38	3.	2.816	9.	0.5	3.844	1.96	0.5	1.	4.	6.
00400	PH (STANDARD UNITS)	02/04/74-01/17/77	38	6.4	6.339	7.3	4.4	0.197	0.443	5.88	6.2	6.6	6.71
00400	CONVERTED PH (STANDARD UNITS)	02/04/74-01/17/77	38	6.4	5.807	7.3	4.4	0.488	0.698	5.88	6.2	6.6	6.71
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/04/74-01/17/77	38	0.398	1.559	39.811	0.05	40.838	6.39	0.195	0.251	0.631	1.333
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/04/74-01/17/77	37	6.	5.676	16.	0.	6.614	2.572	3.6	4.	6.5	8.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/04/74-01/17/77	37	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/04/74-01/17/77	37	1.	1.541	10.	0.5	3.13	1.769	0.5	0.5	2.	4.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	02/04/74-01/17/77	38	0.065	0.079	0.38	0.005	0.005	0.069	0.01	0.048	0.103	0.144
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-01/17/77	38	0.03	0.048	0.21	0.005	0.002	0.047	0.01	0.01	0.07	0.13
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/04/74-01/17/77	38	0.21	0.272	0.56	0.1	0.018	0.134	0.13	0.15	0.393	0.49
00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/04/74-01/17/77	38	0.01	0.016	0.06	0.005	0.	0.012	0.005	0.009	0.02	0.03
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/19/76-04/19/76	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	02/04/74-01/17/77	37	2.	1.865	5.	0.5	0.87	0.933	0.5	1.	2.	3.
00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/04/74-01/17/77	37	0.6	0.584	0.9	0.3	0.015	0.121	0.4	0.5	0.65	0.7
00929	SODIUM, TOTAL (MG/L AS NA)	02/04/74-01/17/77	36	1.25	1.422	2.9	0.9	0.288	0.537	0.97	1.1	1.575	2.66
00937	POTASSIUM, TOTAL MG/L AS K)	02/04/74-01/17/77	36	0.6	0.619	1.	0.4	0.015	0.121	0.5	0.5	0.7	0.8
00940	CHLORIDE,TOTAL IN WATER MG/L	02/04/74-01/17/77	38	2.	2.316	4.	2.	0.33	0.574	2.	2.	3.	3.
00945	SULFATE, TOTAL (MG/L AS SO4)	02/04/74-01/17/77	37	2.	1.959	11.	0.5	3.394	1.842	0.5	0.75	2.	4.
00951	FLUORIDE, TOTAL (MG/L AS F)	02/04/74-01/17/77	35 ##	0.05	0.043	0.05	0.01	0.	0.012	0.02	0.03	0.05	0.05
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/17/75-01/17/77	23	6.5	6.404	7.2	4.6	0.302	0.55	5.8	6.2	6.7	7.08
00956	SILICA, TOTAL (MG/L AS SI02)	02/04/74-02/18/75	15	6.7	6.613	8.1	4.6	0.633	0.795	5.44	6.2	6.9	7.8
01045	IRON, TOTAL (UG/L AS FE)	02/04/74-01/17/77	36	195.	245.	940.	50.	31380.	177.144	71.	142.5	307.5	460.
01055	MANGANESE, TOTAL (UG/L AS MN)	02/04/74-01/17/77	36	30.	52.361	160.	5.	1877.837	43.334	20.	22.5	75.	133.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/18/76-05/17/78	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/18/76-05/17/78	4 ##	0.699	0.699	0.699	0.699	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.								
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	02/04/74-01/17/77	37	7.	6.77	15.	2.	6.717	2.592	2.5	5.	7.5	10.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/04/74-01/17/77	37	20.	24.865	80.	10.	203.453	14.264	10.	20.	30.	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: GRSM0036

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	38	0	0.00	20	0	0.00	18	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	820	32	0.04	430	27	0.06	390	5	0.01						
00400	PH	Other-Hi Lim.	9.	38	0	0.00	20	0	0.00	18	0	0.00						
		Other-Lo Lim.	6.5	38	28	0.74	20	14	0.70	18	14	0.78						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	38	0	0.00	20	0	0.00	18	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	38	0	0.00	20	0	0.00	18	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	37	0	0.00	19	0	0.00	18	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	4	0	0.00	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



CHEOH DAM PENSTOCK

Annual Analysis for 1961 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	9	15.5	14.667	17.5	10.	6.375	2.525	10.	12.5	16.75	17.5
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	9	5.3	5.311	9.	3.1	3.161	1.778	3.1	3.85	6.3	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 1962 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	31	10.	10.616	18.	6.1	11.498	3.391	7.	7.5	12.	16.8
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	30	9.25	8.143	11.1	2.3	5.48	2.341	3.35	6.5	9.7	10.09

** - Less 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 1963 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	29	11.	11.421	19.	5.	23.165	4.813	5.5	7.	16.	18.5
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	29	6.9	7.234	11.2	2.9	5.974	2.444	3.9	4.95	9.75	10.4

** - 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 1964 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	39	8.5	9.333	16.	4.5	12.899	3.592	5.	6.	13.	15.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	39	9.2	8.623	10.8	4.4	3.093	1.759	5.7	7.6	10.	10.4

** - 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 1965 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	26	9.5	11.038	17.5	6.	14.638	3.826	6.7	8.	15.	17.15
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	25	8.8	7.764	11.	3.7	6.696	2.588	3.8	4.7	9.9	10.72

** - Less 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 1966 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	18	9.	9.417	18.	6.	10.949	3.309	6.	6.375	11.25	13.95
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	18	8.4	8.356	10.4	4.7	2.277	1.509	6.32	7.65	9.625	10.31

** - Less 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 1967 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	16	10.5	11.3	17.	7.	9.733	3.12	7.7	9.125	13.95	17.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	16	6.3	6.631	10.	4.6	3.124	1.767	4.67	4.9	7.95	9.79

** - Less 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 1968 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	15	9.	9.933	16.	5.5	12.245	3.499	5.8	6.5	13.	14.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/68-08/12/86	1	3600.	3600.	3600.	3600.	0.	0.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	18	6.9	7.133	10.6	3.6	5.3	2.302	4.14	5.25	9.825	10.42

** - Less 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 GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	14	8.5	7.871	10.1	5.	3.01	1.735	5.	6.	9.275	9.85
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	15	9.4	9.12	10.4	7.2	1.21	1.1	7.44	8.1	10.1	10.4

** - 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 1970 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	36	11.	11.925	19.	7.3	12.968	3.601	8.2	9.	15.75	17.3
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/68-08/12/86	14	4225.5	4071.	6289.	1348.	2135739.538	1461.417	1677.	2814.	5150.75	5981.5
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	36	7.25	7.064	11.2	3.1	5.531	2.352	4.	4.425	8.675	10.38

** - Less 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 GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	52	9.	10.215	18.	5.	15.422	3.927	6.	7.	13.	16.85
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/68-08/12/86	51	5804.	5285.294	8347.	1200.	3771482.412	1942.03	2628.2	3460.	6878.	7454.8
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	51	8.6	8.125	11.3	3.2	4.977	2.231	4.7	6.5	10.1	10.78

** - Less 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 GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	48	11.	11.333	18.	7.	9.461	3.076	7.	9.25	13.	17.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/68-08/12/86	49	6324.	5767.367	10400.	1260.	4603235.154	2145.515	1796.	4564.	7367.	8009.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	48	8.75	8.335	10.7	4.2	3.354	1.831	5.29	7.125	9.875	10.32

** - Less 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 GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	34	11.	11.735	18.	8.	13.594	3.687	8.	8.	15.	18.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/68-08/12/86	34	7143.	6680.794	10880.	1040.	3571277.502	1889.782	4316.5	5244.5	7740.25	8034.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	34	8.75	8.353	11.7	4.6	4.894	2.212	4.95	6.925	10.2	11.2

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

Annual Analysis for 1974 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	39	13.9	13.533	19.	8.9	12.685	3.562	9.	10.	17.	19.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/68-08/12/86	40	7214.	7047.4	10650.	864.	5199467.785	2280.234	4836.5	6054.	8107.	10534.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	38	7.8	7.584	10.3	3.7	4.253	2.062	4.64	5.975	9.55	10.2

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

Annual Analysis for 1975 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	34	13.5	13.912	20.	8.	13.477	3.671	9.5	11.	18.	19.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/68-08/12/86	34	6176.5	6029.676	8181.	2241.	2357308.468	1535.353	3950.5	5079.25	7220.25	8079.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	34	8.95	8.388	11.5	5.2	3.615	1.901	5.5	6.3	10.125	10.35

** - Less 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 GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	45	10.	11.684	19.	6.	16.451	4.056	7.	8.	15.25	18.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/68-08/12/86	43	5857.	5679.814	8236.	476.	3808936.726	1951.65	2957.4	4441.	7610.	8079.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	42	8.85	8.924	11.4	5.1	3.621	1.903	6.39	7.075	10.925	11.2

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

Annual Analysis for 1977 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	40	13.	12.463	18.	4.5	17.659	4.202	6.05	8.375	16.	17.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/68-08/12/86	41	6458.	5916.659	8225.	1426.	3894617.43	1973.479	2230.8	4804.	7651.5	8130.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	41	7.7	7.759	10.4	5.2	2.497	1.58	5.72	6.25	9.05	10.18

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

Annual Analysis for 1978 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	45	9.	10.542	18.	5.	17.232	4.151	6.	7.	14.5	17.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/68-08/12/86	45	5733.	5871.733	8360.	2062.	2844416.291	1686.54	3556.2	4645.	7352.5	8079.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	45	8.1	7.827	11.2	4.	2.999	1.732	5.36	6.35	9.2	9.98

** - 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 box-and-whisker plot

Annual Analysis for 1979 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	50	11.5	12.14	18.	7.	12.684	3.561	8.	9.	15.125	17.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/68-08/12/86	48	6589.5	6107.833	8236.	1826.	2171615.716	1473.64	3621.6	5229.75	7077.75	7616.7
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	50	8.	7.812	11.3	5.5	1.594	1.262	5.84	6.8	8.625	9.47

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

Annual Analysis for 1980 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	46	11.	11.685	18.	6.	15.071	3.882	7.	8.	15.	18.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/68-08/12/86	46	6218.5	5517.848	8130.	1845.	3206512.665	1790.674	2430.8	4163.5	7136.	7503.3
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	46	8.1	7.722	10.8	4.6	2.406	1.551	5.34	6.625	9.	9.6

** - 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 1981 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	38	11.	11.895	21.	5.	15.502	3.937	6.9	8.75	15.	17.1
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/68-08/12/86	38	4618.	4454.526	7993.	400.	4141397.553	2035.042	1644.3	2837.5	6055.	7027.3
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	38	7.05	7.261	12.	5.	2.451	1.566	5.4	5.875	8.525	9.2

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

Annual Analysis for 1982 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	35	11.	11.429	18.	5.	19.37	4.401	5.	7.	16.	17.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/68-08/12/86	37	7172.	6607.297	18630.	1554.	7514804.992	2741.314	2738.	4990.	7968.5	8002.8
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	37	7.8	7.495	9.8	4.7	1.624	1.275	5.18	6.8	8.4	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 1983 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	18	11.5	11.167	18.	7.	10.5	3.24	7.	8.5	12.25	16.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/68-08/12/86	18	5998.5	5542.833	7928.	1200.	2910918.735	1706.141	3511.2	4157.25	7044.25	7701.2
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	18	8.05	7.817	9.5	5.4	1.364	1.168	5.76	7.075	8.65	9.41

** - Less 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 GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	17	11.	12.524	22.	7.	25.097	5.01	7.	8.	16.	21.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/68-08/12/86	17	6729.	6359.412	8876.	869.	3201305.257	1789.219	4042.6	5523.	7437.5	8208.8
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	17	7.5	7.276	10.2	3.8	3.182	1.784	4.68	5.85	8.65	9.88

** - 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 box-and-whisker plot

Annual Analysis for 1985 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	26	14.	14.423	21.	8.	16.494	4.061	9.	11.75	18.	20.3
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/68-08/12/86	27	4799.	4937.481	7993.	1964.	2465209.49	1570.099	2999.6	3907.	6060.	7498.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	27	6.	5.907	9.1	3.7	3.137	1.771	3.78	4.2	7.8	8.32

** - Less 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

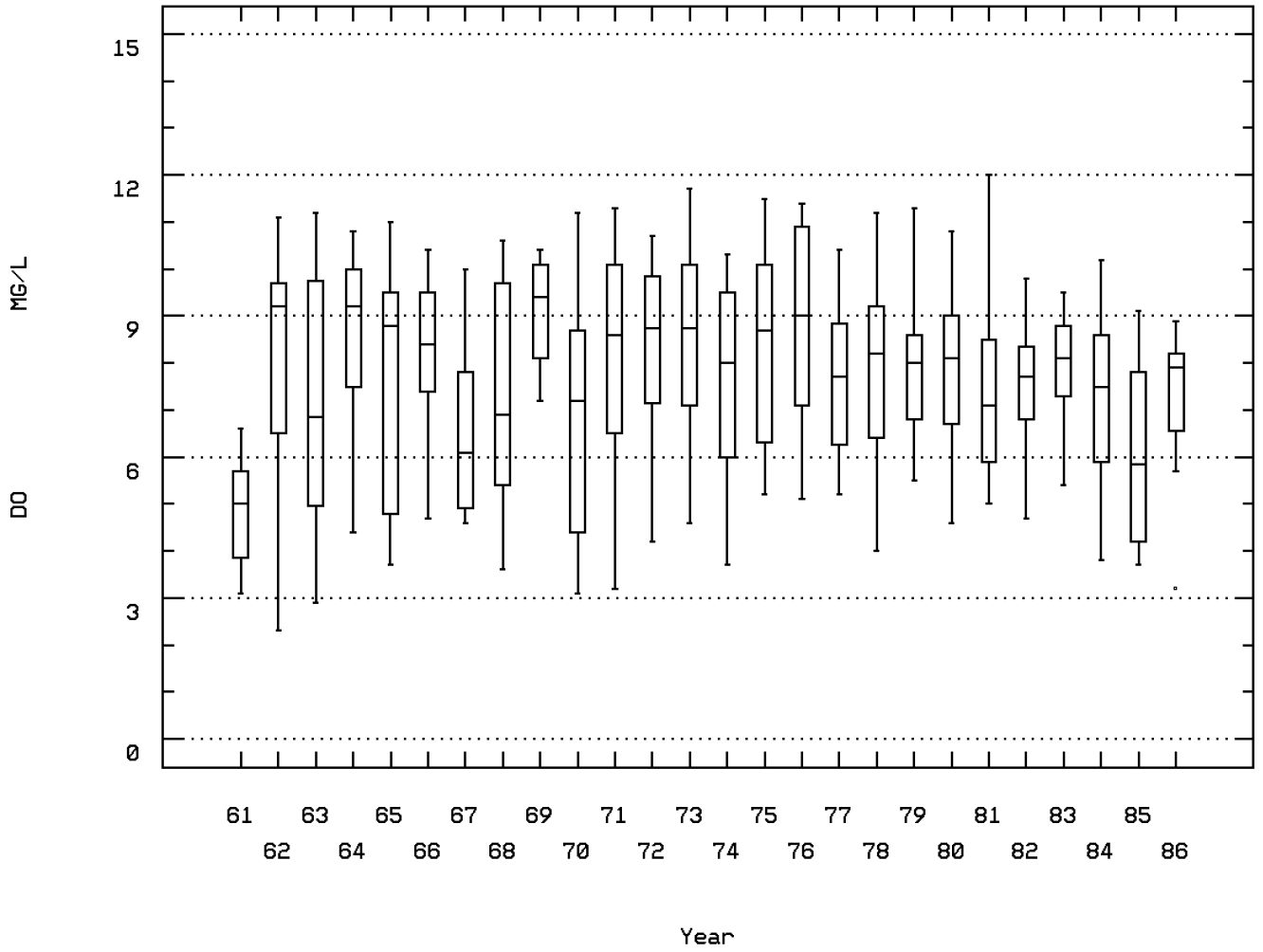
Annual Analysis for 1986 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	19	10.	9.368	12.	7.	3.579	1.892	7.	7.	11.	12.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/68-08/12/86	18	4276.	5029.	7866.	1981.	3325946.	1823.718	3127.6	3723.	6767.	7678.8
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	19	7.9	7.379	8.9	3.2	1.891	1.375	5.7	6.6	8.2	8.6

** - 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: GRSM0036 Parameter Code: 00300

OXYGEN, DISSOLVED



CHEOH DAM PENSTOCK

Seasonal Analysis for Season #1: 10/01 to 3/31 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	425	11.	11.513	22.	4.5	21.298	4.615	6.	7.	16.	18.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/68-08/12/86	317	6291.	6009.874	18630.	476.	4473058.263	2114.961	3284.8	4779.5	7454.	8059.
00300	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	430	8.	7.631	11.7	2.3	4.759	2.182	4.6	5.7	9.5	10.4

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

Seasonal Analysis for Season #2: 4/01 to 9/30 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	394	11.	11.488	20.	6.2	9.483	3.079	8.	9.	14.	16.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/68-08/12/86	284	5736.5	5511.141	8876.	400.	3559862.765	1886.76	2492.	4407.25	7047.75	7830.
00300	OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	390	8.1	7.967	12.	3.2	2.81	1.676	5.71	6.7	9.2	10.1

** - 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

Station Inventory for Station: GRSM0037

NPS Station ID: GRSM0037 LAT/LON: 35.448337/ -83.818338 Agency: 21NC01WQ Date Created: / /
Location: LITTLE TENNESSEE RIVER @ FONTANA INACTIVE 810309 FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): G9300000 /LTN032 /040402007 /03515007
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 06010204 Depth of Water: 999 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010204036 RF1 Mile Point: 9.080 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010202000100.33 RF3 Mile Point: 0.32 Distance from RF3: 0.10 On/Off RF3:
Description:
LOCATION: FROM FONTANA VILLAGE TRAVEL W ON NC 23 TO FIRST CONCRETE BRIDGE CROSSING LITTLE TENNESSEE RIVER. LOCATED TO DEFINE QUALITY OF WATER FROM FONTANA VILLAGE WTP. SAMPLED AT MID DEPTH AT MID & QUARTER POINTS AT DWNSTRM SIDE OF BRIDGE BY OWAR. ACTIVATION DATE 680514.

Parameter Inventory for Station: GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-03/12/81	89	13.	12.461	21.	5.	13.319	3.65	8.	10.	15.	17.
00023	SAMPLE WEIGHT IN POUNDS	06/20/68-11/21/74	12	14.	13.75	21.	10.	7.659	2.768	10.	13.	14.	19.2
00060	FLOW, STREAM, MEAN DAILY CFS	06/20/68-08/24/71	9	5044.	5119.333	7700.	1500.	3618002.25	1902.105	1500.	3890.5	6730.	7700.
00065	STAGE, STREAM (FEET)	05/29/74-09/19/78	8	5900.	6175.	9000.	3100.	6139285.714	2477.758	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/20/68-03/12/81	64	5.	6.363	20.	1.2	17.492	4.182	2.1	4.	8.15	12.5
00077	TRANSPARENCY, SECCHI DISC (INCHES)	05/29/74-05/29/74	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/29/74-03/12/81	47	21.	34.511	230.	5.	1343.951	36.66	17.	20.	40.	80.
00300	OXYGEN, DISSOLVED MG/L	06/20/68-03/12/81	87	9.2	8.946	12.9	1.6	3.574	1.891	6.46	7.7	10.3	11.02
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-07/18/78	50	84.5	82.18	113.	18.	312.681	17.683	61.1	73.	94.25	103.5
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-03/12/81	78	0.5	0.637	3.9	0.1	0.302	0.549	0.2	0.3	0.7	1.03
00335	COD, .025N K2CR2O7 MG/L	11/26/73-12/05/73	2 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	04/02/74-03/12/81	74 ##	5.	6.419	12.5	5.	8.747	2.957	5.	5.	5.	12.5
00400	PH (STANDARD UNITS)	06/20/68-03/12/81	77	6.6	6.456	7.2	3.7	0.21	0.458	6.	6.25	6.7	6.8
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-03/12/81	77	6.6	5.514	7.2	3.7	1.108	1.052	6.	6.25	6.7	6.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-03/12/81	77	0.251	3.059	199.526	0.063	515.117	22.696	0.158	0.2	0.566	1.
00403	PH, LAB, STANDARD UNITS SU	11/15/79-03/12/81	17	6.6	6.618	6.8	6.5	0.01	0.101	6.5	6.5	6.7	6.8
00403	CONVERTED PH, LAB, STANDARD UNITS	11/15/79-03/12/81	17	6.6	6.607	6.8	6.5	0.01	0.102	6.5	6.5	6.7	6.8
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/15/79-03/12/81	17	0.251	0.247	0.316	0.158	0.003	0.055	0.158	0.2	0.316	0.316
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-03/12/81	89	7.	7.135	20.	3.	5.845	2.418	5.	6.	7.	9.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-09/08/80	71	0.	1.31	35.	0.	36.76	6.063	0.	0.	0.	0.
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	09/08/80-12/11/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-03/12/81	5	7.	7.2	11.	4.	6.7	2.588	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	05/15/69-03/12/81	25	30.	30.04	58.	6.	161.79	12.72	12.	19.5	40.5	44.
00505	RESIDUE, TOTAL VOLATILE (MG/L)	06/25/73-06/25/73	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	06/25/73-06/25/73	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/25/73-11/21/74	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	12/08/70-12/08/70	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/20/68-03/12/81	22	4.	3.182	7.	0.	6.013	2.452	0.15	0.5	5.	7.
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/25/73-06/25/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/25/73-06/25/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00546	RESIDUE, SETTLEABLE (MG/L)	06/25/73-06/25/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	06/25/73-11/21/74	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-03/12/81	44 ##	0.025	0.031	0.12	0.025	0.	0.02	0.025	0.025	0.025	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

Parameter Inventory for Station: GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-03/12/81	45	0.1	0.111	0.4	0.05	0.007	0.085	0.05	0.05	0.1	0.24
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-03/12/81	45	0.18	0.187	0.53	0.09	0.006	0.078	0.13	0.14	0.2	0.23
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	06/20/68-11/21/74	12	8.65	8.225	10.3	1.6	5.493	2.344	3.31	7.525	10.	10.27
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/28/75-05/28/75	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-03/12/81	54 ##	0.025	0.039	0.1	0.025	0.001	0.029	0.025	0.025	0.025	0.1
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/21/79-12/11/80	7 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00740	SULFITE (MG/L AS SO3)	06/25/73-11/21/74	2	1.	1.	2.	0.	2.	1.414	**	**	**	**
00745	SULFIDE, TOTAL (MG/L AS S)	06/20/68-07/28/71	9 ##	0.1	0.1	0.1	0.1	0.	0.	0.1	0.1	0.1	0.1
00916	CALCIUM, TOTAL (MG/L AS CA)	05/17/77-03/13/79	4	6.7	9.9	25.	1.2	126.787	11.26	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/17/77-05/17/77	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/20/68-07/28/71	9 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
00951	FLUORIDE, TOTAL (MG/L AS F)	06/25/73-06/25/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	06/25/73-11/21/74	2	157.5	157.5	225.	90.	9112.5	95.459	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/29/74-12/11/80	16 ##	5.	5.313	10.	5.	1.563	1.25	5.	5.	5.	6.5
01027	CADMIUM, TOTAL (UG/L AS CD)	05/29/74-03/12/81	17 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/25/73-11/21/74	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/29/74-03/12/81	17 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01037	COBALT, TOTAL (UG/L AS CO)	05/29/74-03/12/81	17 ##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01040	COPPER, DISSOLVED (UG/L AS CU)	06/25/73-11/21/74	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/29/74-03/12/81	17 ##	20.	145.882	2100.	20.	253638.235	503.625	20.	20.	30.	452.
01045	IRON, TOTAL (UG/L AS FE)	05/29/74-03/12/81	17	100.	136.176	400.	25.	9467.279	97.3	45.	75.	195.	320.
01051	LEAD, TOTAL (UG/L AS PB)	05/29/74-03/12/81	17 ##	50.	58.824	100.	50.	386.029	19.648	50.	50.	50.	100.
01055	MANGANESE, TOTAL (UG/L AS MN)	05/29/74-03/12/81	16 ##	25.	50.625	200.	25.	2216.25	47.077	25.	25.	67.5	137.
01065	NICKEL, DISSOLVED (UG/L AS NI)	06/25/73-06/25/73	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	05/17/77-03/12/81	4 ##	50.	87.5	200.	50.	5625.	75.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	06/25/73-06/25/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/29/74-03/12/81	17 ##	25.	414.412	6000.	25.	2076977.757	1441.172	25.	25.	110.	1416.
01132	LITHIUM, TOTAL (UG/L AS LI)	06/25/73-11/21/74	2	25.	25.	50.	0.	1250.	35.355	**	**	**	**
31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	06/20/68-11/21/74	12	6.	6.25	7.	5.	0.386	0.622	5.3	6.	7.	7.
31508	LOG COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	06/20/68-11/21/74	12	0.778	0.794	0.845	0.699	0.002	0.044	0.723	0.778	0.845	0.845
31508	GM COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	GEOMETRIC MEAN =			6.221								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	78 ##	5.	6.603	40.	5.	29.541	5.435	5.	5.	5.	10.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	78 ##	0.699	0.763	1.602	0.699	0.032	0.179	0.699	0.699	0.699	1.
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.794								
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/25/73-11/21/74	2	0.5	0.5	1.	0.	0.5	0.707	**	**	**	**
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/20/68-11/21/74	12	79.	78.	98.	18.	454.364	21.316	33.6	71.75	94.5	97.7
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	02/28/78-02/28/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/28/71-11/21/74	5	23.	32.6	57.	10.	398.3	19.957	**	**	**	**
70305	SALINITY BASED ON CONDUCTIVITY	05/29/74-12/08/75	4	0.35	0.4	0.9	0.	0.22	0.469	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	12/14/76-03/12/81	28 ##	0.025	0.026	0.05	0.025	0.	0.005	0.025	0.025	0.025	0.025
71900	MERCURY, TOTAL (UG/L AS HG)	12/08/70-03/12/81	18 ##	0.25	0.269	0.6	0.25	0.007	0.082	0.25	0.25	0.25	0.285
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	12/08/75-03/12/81	53	5500.	7885.34	92500.	0.	182948788.421	13525.856	0.	3600.	7950.	8900.

** - Less 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: GRSM0037

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	64	0	0.00	27	0	0.00	37	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	87	1	0.01	39	1	0.03	48	0	0.00						
00400	PH	Other-Hi Lim.	9.	77	0	0.00	33	0	0.00	44	0	0.00						
		Other-Lo Lim.	6.5	77	37	0.48	33	11	0.33	44	26	0.59						
00403	PH, LAB	Other-Hi Lim.	9.	17	0	0.00	11	0	0.00	6	0	0.00						
		Other-Lo Lim.	6.5	17	5	0.29	11	2	0.18	6	3	0.50						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	45	0	0.00	22	0	0.00	23	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	9	0	0.00	2	0	0.00	7	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	2	1.00	1	1	1.00	1	1	1.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	16	0	0.00	7	0	0.00	9	0	0.00						
		Drinking Water	50.	16	0	0.00	7	0	0.00	9	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: GRSM0037

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01027	CADMIUM, TOTAL	Fresh Acute	3.9	0 &	0	0.00												
		Drinking Water	5.	0 &	0	0.00												
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	17	0	0.00	8	0	0.00	9	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	1300.	2	0	0.00	1	0	0.00	1	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	4 &	4	1.00	1	1	1.00	3	3	1.00						
		Drinking Water	1300.	17	1	0.06	8	0	0.00	9	1	0.11						
01051	LEAD, TOTAL	Fresh Acute	82.	17	3	0.18	8	2	0.25	9	1	0.11						
		Drinking Water	5.	3 &	3	1.00	2	2	1.00	1	1	1.00						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	4	0	0.00	3	0	0.00	1	0	0.00						
		Drinking Water	100.	4	1	0.25	3	0	0.00	1	1	1.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	17	4	0.24	8	0	0.00	9	4	0.44						
31508	COLIFORM, TOTAL, MPN, COMP. TEST, TUBE C	Other-Hi Lim.	1000.	12	0	0.00	3	0	0.00	9	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	78	0	0.00	38	0	0.00	40	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	18	0	0.00	9	0	0.00	9	0	0.00						
		Drinking Water	2.	18	0	0.00	9	0	0.00	9	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 1968 - Station GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-03/12/81	2	11.5	11.5	13.	10.	4.5	2.121	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/20/68-03/12/81	2	8.55	8.55	9.7	7.4	2.645	1.626	**	**	**	**
00400	PH (STANDARD UNITS)	06/20/68-03/12/81	2	6.	6.	6.1	5.9	0.02	0.141	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-03/12/81	2	5.989	5.989	6.1	5.9	0.02	0.142	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-03/12/81	2	1.027	1.027	1.259	0.794	0.108	0.329	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-03/12/81	2	6.5	6.5	7.	6.	0.5	0.707	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-09/08/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-03/12/81	2 ##	0.1	0.1	0.1	0.1	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

Annual Analysis for 1969 - Station GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-03/12/81	2	15.5	15.5	21.	10.	60.5	7.778	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/20/68-03/12/81	2	5.25	5.25	8.9	1.6	26.645	5.162	**	**	**	**
00400	PH (STANDARD UNITS)	06/20/68-03/12/81	2	6.1	6.1	6.2	6.	0.02	0.141	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-03/12/81	2	6.089	6.089	6.2	6.	0.02	0.142	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-03/12/81	2	0.815	0.815	1.	0.631	0.068	0.261	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-03/12/81	2	7.	7.	7.	7.	0.	0.	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-09/08/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-03/12/81	2 ##	0.1	0.1	0.1	0.1	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

Annual Analysis for 1970 - Station GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-03/12/81	3	14.	13.667	14.	13.	0.333	0.577	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/20/68-03/12/81	3	10.1	9.233	10.3	7.3	2.813	1.677	**	**	**	**
00400	PH (STANDARD UNITS)	06/20/68-03/12/81	3	6.	6.1	7.1	5.2	0.91	0.954	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-03/12/81	3	6.	5.609	7.1	5.2	1.272	1.128	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-03/12/81	3	1.	2.463	6.31	0.079	11.309	3.363	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-03/12/81	3	6.	9.667	20.	3.	82.333	9.074	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-09/08/80	3	0.	1.667	5.	0.	8.333	2.887	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-03/12/81	3 ##	0.1	0.1	0.1	0.1	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

Annual Analysis for 1971 - Station GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-03/12/81	3	14.	14.333	15.	14.	0.333	0.577	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/20/68-03/12/81	3	8.9	9.	10.2	7.9	1.33	1.153	**	**	**	**
00400	PH (STANDARD UNITS)	06/20/68-03/12/81	3	6.2	6.3	6.6	6.1	0.07	0.265	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-03/12/81	3	6.2	6.253	6.6	6.1	0.073	0.271	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-03/12/81	3	0.631	0.559	0.794	0.251	0.078	0.279	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-03/12/81	3	5.	5.	6.	4.	1.	1.	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-09/08/80	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-03/12/81	2 ##	0.1	0.1	0.1	0.1	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

Annual Analysis for 1973 - Station GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-03/12/81	3	15.	15.	17.	13.	4.	2.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/20/68-03/12/81	3	7.8	7.	8.4	4.8	3.72	1.929	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-03/12/81	2	1.45	1.45	2.4	0.5	1.805	1.344	**	**	**	**
00400	PH (STANDARD UNITS)	06/20/68-03/12/81	3	5.9	6.333	7.2	5.9	0.563	0.751	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-03/12/81	3	5.9	6.065	7.2	5.9	0.671	0.819	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-03/12/81	3	1.259	0.86	1.259	0.063	0.477	0.69	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-03/12/81	3	6.	6.	6.	6.	0.	0.	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-09/08/80	3	31.	22.	35.	0.	367.	19.157	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	3 ##	0.699	0.699	0.699	0.699	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			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 1974 - Station GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-03/12/81	8	14.	14.5	18.	12.	4.	2.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/20/68-03/12/81	8	8.45	8.012	10.5	4.5	3.533	1.88	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-03/12/81	7	0.9	0.943	1.3	0.6	0.076	0.276	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	04/02/74-03/12/81	5 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/20/68-03/12/81	7	6.2	6.257	6.5	6.1	0.023	0.151	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-03/12/81	7	6.2	6.236	6.5	6.1	0.023	0.153	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-03/12/81	7	0.631	0.581	0.794	0.316	0.034	0.185	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-03/12/81	7	5.	5.857	8.	4.	2.476	1.574	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-09/08/80	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-03/12/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-03/12/81	1	0.48	0.48	0.48	0.48	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-03/12/81	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	7 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	7 ##	0.699	0.699	0.699	0.699	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			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 1975 - Station GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-03/12/81	9	12.	12.	18.	8.	10.75	3.279	8.	9.5	14.	18.
00300	OXYGEN, DISSOLVED MG/L	06/20/68-03/12/81	9	10.4	9.756	12.9	5.4	4.408	2.099	5.4	8.55	10.85	12.9
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-03/12/81	9	0.6	0.6	1.3	0.2	0.108	0.328	0.2	0.4	0.75	1.3
00340	COD, .25N K2CR2O7 MG/L	04/02/74-03/12/81	9 ##	12.5	12.5	12.5	12.5	0.	0.	12.5	12.5	12.5	12.5
00400	PH (STANDARD UNITS)	06/20/68-03/12/81	9	6.3	6.111	6.9	3.7	0.934	0.966	3.7	6.	6.75	6.9
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-03/12/81	9	6.3	4.645	6.9	3.7	3.35	1.83	3.7	6.	6.75	6.9
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-03/12/81	9	0.501	22.625	199.526	0.126	4400.863	66.339	0.126	0.179	1.	199.526
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-03/12/81	9	9.	9.778	16.	6.	9.694	3.114	6.	7.5	12.	16.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-09/08/80	8	0.	2.75	22.	0.	60.5	7.778	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-03/12/81	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-03/12/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-03/12/81	1	0.23	0.23	0.23	0.23	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-03/12/81	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	9 ##	5.	5.556	10.	5.	2.778	1.667	5.	5.	5.	10.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	9 ##	0.699	0.732	1.	0.699	0.01	0.1	0.699	0.699	0.699	1.
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.4								
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	12/08/75-03/12/81	1	4700.	4700.	4700.	4700.	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 GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-03/12/81	11	12.	11.818	18.	7.	12.364	3.516	7.2	8.	15.	17.6
00300	OXYGEN, DISSOLVED MG/L	06/20/68-03/12/81	10	8.75	8.53	10.8	6.2	2.725	1.651	6.21	7.05	10.05	10.74
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-03/12/81	11	0.7	0.691	1.3	0.3	0.079	0.281	0.3	0.5	0.8	1.22
00340	COD, .25N K2CR2O7 MG/L	04/02/74-03/12/81	11 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
00400	PH (STANDARD UNITS)	06/20/68-03/12/81	11	6.7	6.655	6.9	6.	0.061	0.246	6.1	6.6	6.8	6.88
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-03/12/81	11	6.7	6.568	6.9	6.	0.069	0.263	6.1	6.6	6.8	6.88
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-03/12/81	11	0.2	0.271	1.	0.126	0.062	0.248	0.132	0.158	0.251	0.863
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-03/12/81	11	7.	7.909	16.	6.	7.691	2.773	6.2	7.	7.	14.6
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-09/08/80	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-03/12/81	2 ##	0.063	0.063	0.1	0.025	0.003	0.053	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-03/12/81	2	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-03/12/81	2	0.155	0.155	0.17	0.14	0.	0.021	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-03/12/81	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	11 ##	5.	12.727	40.	5.	146.818	12.117	5.	5.	20.	38.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	11 ##	0.699	0.961	1.602	0.699	0.121	0.348	0.699	0.699	1.301	1.577
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			9.147								
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	12/08/75-03/12/81	10	5200.	5050.	8900.	0.	10838333.333	3292.162	0.	2700.	8375.	8900.

** - Less 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 GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-03/12/81	11	16.	14.364	20.	5.	21.255	4.61	5.8	10.	18.	19.6
00300	OXYGEN, DISSOLVED MG/L	06/20/68-03/12/81	11	9.4	9.318	11.6	6.2	2.874	1.695	6.38	7.7	10.5	11.54
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-03/12/81	11	0.6	0.673	2.3	0.1	0.342	0.585	0.14	0.3	0.7	2.02
00340	COD, .25N K2CR2O7 MG/L	04/02/74-03/12/81	11 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
00400	PH (STANDARD UNITS)	06/20/68-03/12/81	11	6.6	6.582	6.7	6.3	0.02	0.14	6.32	6.5	6.7	6.7
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-03/12/81	11	6.6	6.56	6.7	6.3	0.02	0.142	6.32	6.5	6.7	6.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-03/12/81	11	0.251	0.276	0.501	0.2	0.01	0.1	0.2	0.2	0.316	0.481
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-03/12/81	11	6.	6.455	8.	5.	0.673	0.82	5.2	6.	7.	7.8
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-09/08/80	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-03/12/81	9 ##	0.025	0.031	0.08	0.025	0.	0.018	0.025	0.025	0.025	0.08
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-03/12/81	9	0.1	0.139	0.4	0.05	0.011	0.105	0.05	0.1	0.15	0.4
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-03/12/81	9	0.2	0.22	0.53	0.13	0.015	0.121	0.13	0.155	0.22	0.53
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-03/12/81	9 ##	0.025	0.033	0.1	0.025	0.001	0.025	0.025	0.025	0.025	0.1
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	11 ##	5.	5.455	10.	5.	2.273	1.508	5.	5.	5.	9.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	11 ##	0.699	0.726	1.	0.699	0.008	0.091	0.699	0.699	0.699	0.94
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.325								
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	12/08/75-03/12/81	7	7000.	10314.286	38000.	0.	157361428.571	12544.378	**	**	**	**

** - Less 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 GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-03/12/81	12	10.5	11.667	17.	5.	15.697	3.962	5.9	8.25	15.75	16.7
00300	OXYGEN, DISSOLVED MG/L	06/20/68-03/12/81	11	10.3	9.873	12.1	6.5	4.126	2.031	6.58	7.9	11.7	12.06
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-03/12/81	12	0.35	0.425	1.	0.1	0.086	0.293	0.1	0.225	0.625	0.97
00340	COD, .25N K2CR2O7 MG/L	04/02/74-03/12/81	12 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
00400	PH (STANDARD UNITS)	06/20/68-03/12/81	12	6.75	6.708	6.9	6.5	0.015	0.124	6.53	6.6	6.8	6.87
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-03/12/81	12	6.747	6.692	6.9	6.5	0.016	0.125	6.53	6.6	6.8	6.87
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-03/12/81	12	0.179	0.203	0.316	0.126	0.003	0.059	0.136	0.158	0.251	0.297
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-03/12/81	12	7.	6.583	8.	4.	1.356	1.165	4.3	6.	7.	8.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-09/08/80	6	0.	0.	0.	0.	0.	0.	**	**	**	**

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

Annual Analysis for 1978 - Station GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-03/12/81	10 ##	0.025	0.028	0.05	0.025	0.	0.008	0.025	0.025	0.025	0.048
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-03/12/81	10	0.1	0.12	0.2	0.05	0.005	0.071	0.05	0.05	0.2	0.2
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-03/12/81	10	0.19	0.19	0.27	0.13	0.002	0.041	0.131	0.155	0.213	0.265
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-03/12/81	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	12 ##	5.	5.417	10.	5.	2.083	1.443	5.	5.	5.	8.5
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	12 ##	0.699	0.724	1.	0.699	0.008	0.087	0.699	0.699	0.699	0.91
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.297								
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	12/08/75-03/12/81	10	5250.	4510.	7200.	0.	4614333.333	2148.1	310.	3100.	6225.	7110.

** - Less 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 GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-03/12/81	10	11.5	11.5	18.	6.	14.056	3.749	6.1	8.5	15.	17.7
00300	OXYGEN, DISSOLVED MG/L	06/20/68-03/12/81	10	9.15	8.9	10.7	7.	1.533	1.238	7.05	7.5	9.775	10.66
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-03/12/81	11	0.3	0.682	3.9	0.2	1.152	1.073	0.22	0.3	0.5	3.24
00340	COD, .25N K2CR2O7 MG/L	04/02/74-03/12/81	11 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
00400	PH (STANDARD UNITS)	06/20/68-03/12/81	9	6.6	6.578	6.7	6.4	0.012	0.109	6.4	6.5	6.7	6.7
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-03/12/81	9	6.6	6.565	6.7	6.4	0.012	0.11	6.4	6.5	6.7	6.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-03/12/81	9	0.251	0.272	0.398	0.2	0.005	0.069	0.2	0.2	0.316	0.398
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-03/12/81	11	6.	6.455	8.	5.	0.673	0.82	5.2	6.	7.	7.8
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-09/08/80	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-03/12/81	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-03/12/81	11 ##	0.05	0.068	0.1	0.05	0.001	0.025	0.05	0.05	0.1	0.1
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-03/12/81	11	0.16	0.155	0.2	0.09	0.001	0.038	0.092	0.12	0.19	0.198
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-03/12/81	11 ##	0.025	0.027	0.05	0.025	0.	0.008	0.025	0.025	0.025	0.045
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	10 ##	5.	7.	20.	5.	23.333	4.83	5.	5.	6.25	19.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	10 ##	0.699	0.789	1.301	0.699	0.041	0.203	0.699	0.699	0.774	1.271
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			6.156								
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	12/08/75-03/12/81	11	6900.	14610.455	92500.	3800.	669729852.273	25879.139	4120.	6000.	8400.	75800.

** - Less 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 GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-03/12/81	12	11.	11.5	16.	8.	8.818	2.97	8.	8.25	14.	15.7
00300	OXYGEN, DISSOLVED MG/L	06/20/68-03/12/81	12	8.85	8.933	11.	6.8	1.955	1.398	7.04	7.725	10.25	10.91
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-03/12/81	12	0.45	0.475	0.8	0.2	0.037	0.191	0.2	0.325	0.6	0.77
00340	COD, .25N K2CR2O7 MG/L	04/02/74-03/12/81	12 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
00400	PH (STANDARD UNITS)	06/20/68-03/12/81	4	6.425	6.513	6.8	6.4	0.037	0.193	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-03/12/81	4	6.424	6.485	6.8	6.4	0.038	0.196	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-03/12/81	4	0.376	0.327	0.398	0.158	0.013	0.114	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-03/12/81	12	7.	7.167	10.	6.	1.424	1.193	6.	6.25	7.	9.7
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-09/08/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-03/12/81	10 ##	0.025	0.029	0.06	0.025	0.	0.011	0.025	0.025	0.025	0.057
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-03/12/81	10 ##	0.05	0.08	0.2	0.05	0.002	0.048	0.05	0.05	0.1	0.19
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-03/12/81	10	0.16	0.159	0.19	0.13	0.	0.022	0.131	0.14	0.183	0.19
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-03/12/81	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	12 ##	5.	5.417	10.	5.	2.083	1.443	5.	5.	5.	8.5
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	12 ##	0.699	0.724	1.	0.699	0.008	0.087	0.699	0.699	0.699	0.91
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.297								
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	12/08/75-03/12/81	11	4500.	7700.727	34000.	2700.	80262085.818	8958.911	2700.	3600.	8000.	28980.

** - Less 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 GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-03/12/81	3	7.	7.	7.	7.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/20/68-03/12/81	3	10.8	10.167	11.	8.7	1.623	1.274	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-03/12/81	3	0.5	0.5	0.7	0.3	0.04	0.2	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	04/02/74-03/12/81	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/20/68-03/12/81	1	6.55	6.55	6.55	6.55	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-03/12/81	1	6.55	6.55	6.55	6.55	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-03/12/81	1	0.282	0.282	0.282	0.282	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-03/12/81	3	8.	7.667	8.	7.	0.333	0.577	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-03/12/81	1	0.12	0.12	0.12	0.12	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-03/12/81	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-03/12/81	1	0.21	0.21	0.21	0.21	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-03/12/81	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	3 ##	0.699	0.699	0.699	0.699	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.								
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	12/08/75-03/12/81	3	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 #1: 10/01 to 3/31 - Station GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-03/12/81	40	11.5	11.6	21.	5.	18.144	4.26	7.	8.	15.	17.9
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/20/68-03/12/81	27	6.5	8.652	20.	3.	24.253	4.925	3.66	5.	12.	17.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/29/74-03/12/81	22	22.5	30.727	120.	5.	641.541	25.329	9.3	18.75	40.25	68.6
00300	OXYGEN, DISSOLVED MG/L	06/20/68-03/12/81	39	9.1	8.854	12.9	1.6	5.229	2.287	6.2	7.6	10.7	11.3
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-07/18/78	19	79.	76.895	113.	18.	511.766	22.622	47.	66.	93.	108.
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-03/12/81	38	0.4	0.618	3.9	0.1	0.455	0.675	0.19	0.3	0.7	0.94
00340	COD, .25N K2CR2O7 MG/L	04/02/74-03/12/81	36 ##	5.	6.25	12.5	5.	8.036	2.835	5.	5.	5.	12.5
00400	PH (STANDARD UNITS)	06/20/68-03/12/81	33	6.6	6.489	7.1	3.7	0.326	0.571	5.98	6.4	6.8	6.8
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-03/12/81	33	6.6	5.196	7.1	3.7	2.052	1.433	5.98	6.4	6.8	6.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-03/12/81	33	0.251	6.372	199.526	0.079	1202.407	34.676	0.158	0.158	0.398	1.073
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-03/12/81	41	7.	7.683	16.	4.	4.072	2.018	6.	7.	8.	10.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-09/08/80	29	0.	3.034	35.	0.	85.82	9.264	0.	0.	0.	22.
00500	RESIDUE, TOTAL (MG/L)	05/15/69-03/12/81	11	31.	29.091	44.	6.	165.891	12.88	7.2	16.	41.	43.6
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/20/68-03/12/81	9	5.	4.444	7.	0.5	6.715	2.591	0.5	1.75	7.	7.
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-03/12/81	22	0.1	0.127	0.4	0.05	0.01	0.098	0.05	0.05	0.2	0.3
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-03/12/81	22	0.16	0.175	0.53	0.09	0.007	0.085	0.109	0.14	0.19	0.207
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-03/12/81	24 ##	0.025	0.034	0.1	0.025	0.001	0.025	0.025	0.025	0.025	0.1
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	38 ##	5.	6.447	20.	5.	13.389	3.659	5.	5.	5.	10.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	38 ##	0.699	0.77	1.301	0.699	0.027	0.163	0.699	0.699	0.699	1.
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.892								
71900	MERCURY, TOTAL (UG/L AS HG)	12/08/70-03/12/81	9 ##	0.25	0.25	0.25	0.25	0.	0.	0.25	0.25	0.25	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

Seasonal Analysis for Season #2: 4/01 to 9/30 - Station GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-03/12/81	49	13.	13.163	20.	8.	8.556	2.925	9.	11.	15.	17.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/20/68-03/12/81	37	4.7	4.692	12.	1.2	6.295	2.509	1.9	2.6	5.35	8.56
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/29/74-03/12/81	25	21.	37.84	230.	15.	1989.89	44.608	18.	20.	33.5	84.
00300	OXYGEN, DISSOLVED MG/L	06/20/68-03/12/81	48	9.2	9.021	12.1	5.4	2.3	1.517	6.98	7.9	10.275	10.61
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-07/18/78	31	86.	85.419	110.	57.	175.118	13.233	63.6	78.	95.	103.
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-03/12/81	40	0.6	0.655	2.3	0.2	0.164	0.404	0.21	0.4	0.875	1.27
00340	COD, .25N K2CR2O7 MG/L	04/02/74-03/12/81	38 ##	5.	6.579	12.5	5.	9.602	3.099	5.	5.	5.	12.5
00400	PH (STANDARD UNITS)	06/20/68-03/12/81	44	6.5	6.431	7.2	5.2	0.127	0.356	6.	6.125	6.7	6.8
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-03/12/81	44	6.5	6.242	7.2	5.2	0.163	0.404	6.	6.125	6.7	6.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-03/12/81	44	0.316	0.573	6.31	0.063	0.878	0.937	0.158	0.2	0.753	1.
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-03/12/81	48	6.	6.667	20.	3.	6.993	2.644	5.	6.	7.	7.1
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-09/08/80	42	0.	0.119	5.	0.	0.595	0.772	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)	05/15/69-03/12/81	14	29.	30.786	58.	12.	169.72	13.028	13.5	20.25	40.	51.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/20/68-03/12/81	13	1.	2.308	5.	0.	4.022	2.006	0.	0.5	4.	5.
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-03/12/81	23 ##	0.05	0.096	0.3	0.05	0.005	0.067	0.05	0.05	0.1	0.2
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-03/12/81	23	0.19	0.199	0.48	0.12	0.005	0.071	0.134	0.16	0.21	0.254
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-03/12/81	30 ##	0.025	0.043	0.1	0.025	0.001	0.032	0.025	0.025	0.063	0.1
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	40 ##	5.	6.75	40.	5.	45.577	6.751	5.	5.	5.	9.5
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	40 ##	0.699	0.756	1.602	0.699	0.038	0.194	0.699	0.699	0.699	0.97
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.702								
71900	MERCURY, TOTAL (UG/L AS HG)	12/08/70-03/12/81	9 ##	0.25	0.289	0.6	0.25	0.014	0.117	0.25	0.25	0.25	0.6

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

Station Inventory for Station: GRSM0038

NPS Station ID: GRSM0038 LAT/LON: 35.448337/ -83.866115 Agency: 21NC01WQ Date Created: 12/03/88
Location: LAKE CHEOAH AT POWER LINES NR POWER HOUSE FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): G9352000 /LTN032D
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 06010204 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 2.90 On/Off RF1:
RF3 Index: 06010204003607.26 RF3 Mile Point: 7.26 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/87-08/10/94	17	11.2	11.971	13.9	10.1	2.272	1.507	10.26	10.65	13.4	13.74
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/27/88-08/10/94	2	1.35	1.35	1.4	1.3	0.005	0.071	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	07/27/88-08/10/94	2	5.45	5.45	7.2	3.7	6.125	2.475	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/27/87-08/10/94	17	18.	18.412	19.	18.	0.257	0.507	18.	18.	19.	19.
00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	07/27/88-07/27/88	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/27/87-08/10/94	17	9.3	8.971	9.8	8.	0.442	0.665	8.08	8.3	9.5	9.8
00400	PH (STANDARD UNITS)	07/27/87-08/10/94	17	6.4	6.318	6.6	6.1	0.042	0.204	6.1	6.1	6.5	6.52
00400	CONVERTED PH (STANDARD UNITS)	07/27/87-08/10/94	17	6.4	6.274	6.6	6.1	0.044	0.209	6.1	6.1	6.5	6.52
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/87-08/10/94	17	0.398	0.533	0.794	0.251	0.057	0.239	0.303	0.316	0.794	0.794
00500	RESIDUE, TOTAL (MG/L)	07/27/88-08/10/94	2	25.5	25.5	26.	25.	0.5	0.707	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/27/88-08/10/94	2	2.5	2.5	3.	2.	0.5	0.707	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	2	0.025	0.025	0.04	0.01	0.	0.021	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-08/10/94	2	0.155	0.155	0.17	0.14	0.	0.021	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-08/10/94	2	0.02	0.02	0.03	0.01	0.	0.014	**	**	**	**
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/88-08/10/94	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	07/27/88-08/10/94	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	07/27/88-08/10/94	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	1 ##	0.005	0.005	0.005	0.005	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: GRSM0038

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a 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.	17	0	0.00				17	0	0.00						
00400	PH	Other-Hi Lim.	9.	17	0	0.00				17	0	0.00						
		Other-Lo Lim.	6.5	17	16	0.94				17	16	0.94						
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

Station Inventory for Station: GRSM0039

NPS Station ID: GRSM0039 LAT/LON: 35.448337/ -83.866115 Agency: 21NC01WQ Date Created: 12/03/88
Location: LAKE CHEOAH AT POWER LINES NR POWER HOUSE FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): G9352010 /LTN032DSUR
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 06010204 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 06010204003606.02 RF3 Mile Point: 6.25 Distance from RF3: 0.06 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	07/27/88-07/27/88	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/27/88-07/27/88	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/88-07/27/88	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/27/88-07/27/88	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	07/27/88-07/27/88	1	5.	5.	5.	5.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0039

				Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
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

Station Inventory for Station: GRSM0040

NPS Station ID: GRSM0040
LAT/LON: 35.448337/ -83.866115
Agency: 21NC01WQ
Date Created: 12/03/88
Location: LAKE CHEOAH AT POWER LINES NR POWER HOUSE
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9352020 /LTN032DBOT
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010204
Depth of Water: 1
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 06010204003606.02
RF3 Mile Point: 6.25
Distance from RF3: 0.06
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0040

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: GRSM0041

NPS Station ID: GRSM0041
LAT/LON: 35.448337/ -83.936115
Agency: 131TVAC
Date Created: 11/27/82
Location: CHEOAH RESERVOIR
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370062
RMI-Indexes: 1021500 007720 00920 8540
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 601.10 051.41
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 51.41
ECO Region:
RF1 Index: 06010204036
RF1 Mile Point: 0.310
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010204002503.04
RF3 Mile Point: 3.03
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/82-10/18/82	20	17.	15.215	17.5	11.	6.502	2.55	11.23	12.35	17.	17.49
00080	COLOR (PLATINUM-COBALT UNITS)	10/18/82-10/18/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	10/18/82-10/18/82	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/18/82-10/18/82	20	20.	20.	20.	20.	0.	0.	20.	20.	20.	20.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/82-10/18/82	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	10/18/82-10/18/82	20	5.8	5.42	7.7	1.4	2.149	1.466	2.85	4.775	6.2	7.33
00400	PH (STANDARD UNITS)	10/18/82-10/18/82	20	5.5	5.555	5.8	5.5	0.007	0.083	5.5	5.5	5.6	5.69
00400	CONVERTED PH (STANDARD UNITS)	10/18/82-10/18/82	20	5.5	5.548	5.8	5.5	0.007	0.083	5.5	5.5	5.6	5.69
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/82-10/18/82	20	3.162	2.83	3.162	1.585	0.22	0.469	2.047	2.512	3.162	3.162
00403	PH, LAB, STANDARD UNITS SU	10/18/82-10/18/82	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/18/82-10/18/82	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/82-10/18/82	1	0.316	0.316	0.316	0.316	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/18/82-10/18/82	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	10/18/82-10/18/82	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	10/18/82-10/18/82	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	10/18/82-10/18/82	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/18/82-10/18/82	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/18/82-10/18/82	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/18/82-10/18/82	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/18/82-10/18/82	1	0.55	0.55	0.55	0.55	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	10/18/82-10/18/82	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/18/82-10/18/82	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/18/82-10/18/82	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
32023	ACIDS, STRONG	10/18/82-10/18/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024	ACIDS, WEAK	10/18/82-10/18/82	1	120.	120.	120.	120.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	10/18/82-10/18/82	1	7.	7.	7.	7.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/18/82-10/18/82	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	10/18/82-10/18/82	1	800.	800.	800.	800.	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: GRSM0041

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	20	2	0.10	20	2	0.10									
00400	PH	Other-Hi Lim.	9.	20	0	0.00	20	0	0.00									
		Other-Lo Lim.	6.5	20	20	1.00	20	20	1.00									
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
82295	CHLORIDE DISSOLVED AS CL IN WATER	Fresh Acute	860000.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0042

NPS Station ID: GRSM0042
LAT/LON: 35.448616/ -83.935559
Agency: 21NC01WQ
Date Created: 12/03/88
Location: LAKE CHEOAH NR DAM NR TAPOCO
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9354000 /LTN032F
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010204
Depth of Water: 1
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 06010204003606.02
RF3 Mile Point: 6.25
Distance from RF3: 0.06
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/88-08/10/94	36	13.25	12.953	21.3	8.	9.313	3.052	8.68	10.825	14.275	16.58
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/27/88-08/10/94	2	1.9	1.9	2.3	1.5	0.32	0.566	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	07/27/88-08/10/94	2	4.45	4.45	5.7	3.2	3.125	1.768	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/27/88-08/10/94	36	18.	16.333	20.	11.	8.743	2.957	12.	12.25	18.	19.
00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	07/27/88-07/27/88	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/27/88-08/10/94	36	8.5	8.644	9.6	7.5	0.504	0.71	7.87	8.	9.3	9.5
00400	PH (STANDARD UNITS)	07/27/88-08/10/94	36	6.3	6.272	6.5	6.	0.013	0.116	6.1	6.2	6.3	6.4
00400	CONVERTED PH (STANDARD UNITS)	07/27/88-08/10/94	36	6.3	6.256	6.5	6.	0.014	0.117	6.1	6.2	6.3	6.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/88-08/10/94	36	0.501	0.554	1.	0.316	0.027	0.163	0.398	0.501	0.631	0.794
00500	RESIDUE, TOTAL (MG/L)	07/27/88-08/10/94	2	30.5	30.5	33.	28.	12.5	3.536	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/27/88-08/10/94	2	4.5	4.5	7.	2.	12.5	3.536	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	2	0.025	0.025	0.04	0.01	0.	0.021	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-08/10/94	2	0.15	0.15	0.16	0.14	0.	0.014	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-08/10/94	2	0.02	0.02	0.03	0.01	0.	0.014	**	**	**	**
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/88-08/10/94	2 ##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	07/27/88-08/10/94	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	07/27/88-08/10/94	2 ##	1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	1 ##	0.005	0.005	0.005	0.005	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: GRSM0042

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	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						
00400	PH	Other-Hi Lim.	9.	36	0	0.00				36	0	0.00						
		Other-Lo Lim.	6.5	36	36	1.00				36	36	1.00						
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

Station Inventory for Station: GRSM0043

NPS Station ID: GRSM0043
LAT/LON: 35.448616/ -83.935559
Agency: 21NC01WQ
Date Created: 12/03/88
Location: LAKE CHEOAH NR DAM NR TAPOCO
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9354010 /LTN032FSUR
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010204
Depth of Water: 1
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 1.80
On/Off RF1:
RF3 Index: 06010204002013.24
RF3 Mile Point: 13.24
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	07/27/88-07/27/88	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/27/88-07/27/88	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/88-07/27/88	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/27/88-07/27/88	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	07/27/88-07/27/88	1	3.	3.	3.	3.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0043

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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

Station Inventory for Station: GRSM0044

NPS Station ID: GRSM0044
LAT/LON: 35.448616/ -83.935559
Agency: 21NC01WQ
Date Created: 12/03/88
Location: LAKE CHEOAH NR DAM NR TAPOCO
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9354020 /LTN032FBOT
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010204
Depth of Water: 1
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 1.80
On/Off RF1:
RF3 Index: 06010204002013.24
RF3 Mile Point: 13.24
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0044

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: GRSM0045

NPS Station ID: GRSM0045
LAT/LON: 35.448892/ -83.940837
Agency: 21NC01WQ
Date Created: 12/03/88
Location: CALDERWOOD LAKE NR DAM
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9994000 /LTN041
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010204
Depth of Water: 1
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 2.70
On/Off RF1:
RF3 Index: 06010204002013.24
RF3 Mile Point: 13.24
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/88-08/10/94	35	14.	14.377	22.4	8.9	9.666	3.109	10.56	12.6	15.7	19.58
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/27/88-08/10/94	2 ##	1.1	1.1	1.7	0.5	0.72	0.849	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	07/27/88-08/10/94	2	5.	5.	7.5	2.5	12.5	3.536	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/27/88-08/10/94	35	18.	16.171	21.	5.	17.029	4.127	8.2	15.	19.	19.4
00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	07/27/88-07/27/88	1	12.4	12.4	12.4	12.4	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/27/88-08/10/94	35	8.7	8.734	10.	5.9	0.7	0.837	8.	8.2	9.5	9.84
00400	PH (STANDARD UNITS)	07/27/88-08/10/94	35	6.7	6.714	7.1	6.	0.085	0.292	6.2	6.6	6.9	7.1
00400	CONVERTED PH (STANDARD UNITS)	07/27/88-08/10/94	35	6.7	6.609	7.1	6.	0.097	0.311	6.2	6.6	6.9	7.1
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/88-08/10/94	35	0.2	0.246	1.	0.079	0.042	0.204	0.079	0.126	0.251	0.631
00500	RESIDUE, TOTAL (MG/L)	07/27/88-08/10/94	2	32.	32.	34.	30.	8.	2.828	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/27/88-08/10/94	2	3.	3.	3.	3.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	2	0.03	0.03	0.04	0.02	0.	0.014	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-08/10/94	2	0.15	0.15	0.16	0.14	0.	0.014	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-08/10/94	2	0.015	0.015	0.02	0.01	0.	0.007	**	**	**	**
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/88-08/10/94	2 ##	1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**
32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	07/27/88-08/10/94	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	07/27/88-08/10/94	2 ##	1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	1 ##	0.005	0.005	0.005	0.005	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: GRSM0045

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	2	0	0.00				2	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	35	0	0.00				35	0	0.00						
00400	PH	Other-Hi Lim.	9.	35	0	0.00				35	0	0.00						
		Other-Lo Lim.	6.5	35	7	0.20				35	7	0.20						
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

Station Inventory for Station: GRSM0046

NPS Station ID: GRSM0046
LAT/LON: 35.448892/ -83.940837
Agency: 21NC01WQ
Date Created: 12/03/88
Location: CALDERWOOD LAKE NR DAM
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9994010 /LTN041SUR
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010204
Depth of Water: 1
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 1.60
On/Off RF1:
RF3 Index: 06010204002012.25
RF3 Mile Point: 14.99
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	07/27/88-07/27/88	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/27/88-07/27/88	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/88-07/27/88	1	0.158	0.158	0.158	0.158	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/27/88-07/27/88	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	07/27/88-07/27/88	1	3.	3.	3.	3.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0046

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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

Station Inventory for Station: GRSM0047

NPS Station ID: GRSM0047
LAT/LON: 35.448892/ -83.940837
Agency: 21NC01WQ
Date Created: 12/03/88
Location: CALDERWOOD LAKE NR DAM
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9994020 /LTN041BOT
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010204
Depth of Water: 1
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 1.60
On/Off RF1:
RF3 Index: 06010204002012.25
RF3 Mile Point: 14.99
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0047

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: GRSM0048

NPS Station ID: GRSM0048
LAT/LON: 35.449170/ -83.902505
Agency: 131TVAC
Date Created: / /
Location: SANTEETLAH POWERHOUSE TAILRACE
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 360217 /3941
RMI-Indexes: 1021500 007720 00920 8540
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 601.10 056.80
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 56.8
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010204003600.00
RF3 Mile Point: 0.04
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/68-12/11/89	334	10.	10.937	21.1	4.	17.028	4.127	6.	7.8	14.1	17.35
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/29/70-12/11/89	274	824.	762.759	896.	204.	23263.546	152.524	470.	764.	864.	872.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	03/03/74-01/17/77	36	1.85	2.069	6.	1.	1.181	1.087	1.	1.4	2.375	3.42
00080	COLOR (PLATINUM-COBALT UNITS)	03/03/74-01/17/77	36	6.	6.583	16.	1.	17.936	4.235	2.05	3.	10.	14.3
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	03/03/74-01/17/77	36	12.	12.722	29.	1.	32.835	5.73	5.	10.	15.	20.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/03/74-01/17/77	36	20.	30.472	150.	15.	1134.428	33.681	17.	18.	21.75	82.2
00300p	OXYGEN, DISSOLVED MG/L	02/23/68-12/11/89	311	8.9	8.423	13.8	3.2	4.756	2.181	5.1	6.8	10.2	10.9
00310	BOD, 5 DAY, 20 DEG C MG/L	03/18/76-07/22/76	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	03/03/74-01/17/77	36	4.	4.014	16.	0.5	8.293	2.88	2.	2.	4.	6.9
00400	PH (STANDARD UNITS)	03/03/74-01/17/77	36	6.3	6.247	6.7	4.3	0.178	0.422	5.87	6.1	6.5	6.6
00400	CONVERTED PH (STANDARD UNITS)	03/03/74-01/17/77	36	6.3	5.704	6.7	4.3	0.482	0.694	5.87	6.1	6.5	6.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/03/74-01/17/77	36	0.501	1.977	50.119	0.2	68.28	8.263	0.251	0.316	0.794	1.357
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/03/74-01/17/77	36	6.	5.694	11.	0.	3.99	1.997	4.	4.25	6.	8.3
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/03/74-01/17/77	36	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/03/74-01/17/77	36	1.	1.764	14.	0.5	6.264	2.503	0.5	0.5	2.	4.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	03/03/74-01/17/77	36	0.065	0.079	0.26	0.005	0.003	0.056	0.01	0.04	0.1	0.166
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/03/74-01/17/77	36	0.03	0.045	0.13	0.01	0.001	0.033	0.017	0.02	0.05	0.11
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/03/74-01/17/77	36	0.13	0.131	0.3	0.04	0.003	0.053	0.061	0.11	0.158	0.18
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/03/74-01/17/77	36	0.01	0.013	0.04	0.005	0.	0.01	0.005	0.005	0.02	0.03
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/19/76-05/17/76	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	03/03/74-01/17/77	36	1.	1.569	6.	0.5	1.159	1.077	0.5	1.	2.	2.3
00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/03/74-01/17/77	36	0.5	0.731	7.8	0.2	1.505	1.227	0.3	0.5	0.6	0.8
00929	SODIUM, TOTAL (MG/L AS NA)	03/03/74-01/17/77	36	1.	1.139	2.6	0.7	0.246	0.496	0.8	0.8	1.175	2.08
00937	POTASSIUM, TOTAL MG/L AS K)	03/03/74-01/17/77	36	0.5	0.589	1.6	0.3	0.069	0.263	0.4	0.5	0.6	0.82
00940	CHLORIDE,TOTAL IN WATER MG/L	03/03/74-01/17/77	36	2.	2.	4.	1.	0.229	0.478	1.7	2.	2.	2.
00945	SULFATE, TOTAL (MG/L AS SO4)	03/03/74-01/17/77	36 ##	0.75	1.222	5.	0.5	0.963	0.982	0.5	0.5	2.	2.
00951	FLUORIDE, TOTAL (MG/L AS F)	03/03/74-01/17/77	35 ##	0.05	0.042	0.05	0.005	0.	0.013	0.02	0.03	0.05	0.05
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/17/75-01/17/77	22	5.2	5.127	6.5	3.8	0.392	0.626	4.23	4.775	5.35	6.14
00956	SILICA, TOTAL (MG/L AS SI02)	03/03/74-02/24/75	13	5.5	5.538	7.5	4.5	0.589	0.768	4.62	4.95	5.8	7.02
01045	IRON, TOTAL (UG/L AS FE)	03/03/74-01/17/77	36	215.	782.5	17000.	25.	7864142.143	2804.308	25.	112.5	405.	1230.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/03/74-01/17/77	36	25.	62.083	210.	5.	3946.25	62.819	8.5	20.	107.5	169.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/18/76-07/22/76	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/18/76-07/22/76	3 ##	0.699	0.699	0.699	0.699	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.								
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	03/03/74-01/17/77	36	5.	6.875	37.	1.5	37.091	6.09	2.35	5.	7.	11.5
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/03/74-12/13/76	35	20.	18.429	50.	5.	84.958	9.217	8.	10.	20.	30.

** - Less 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

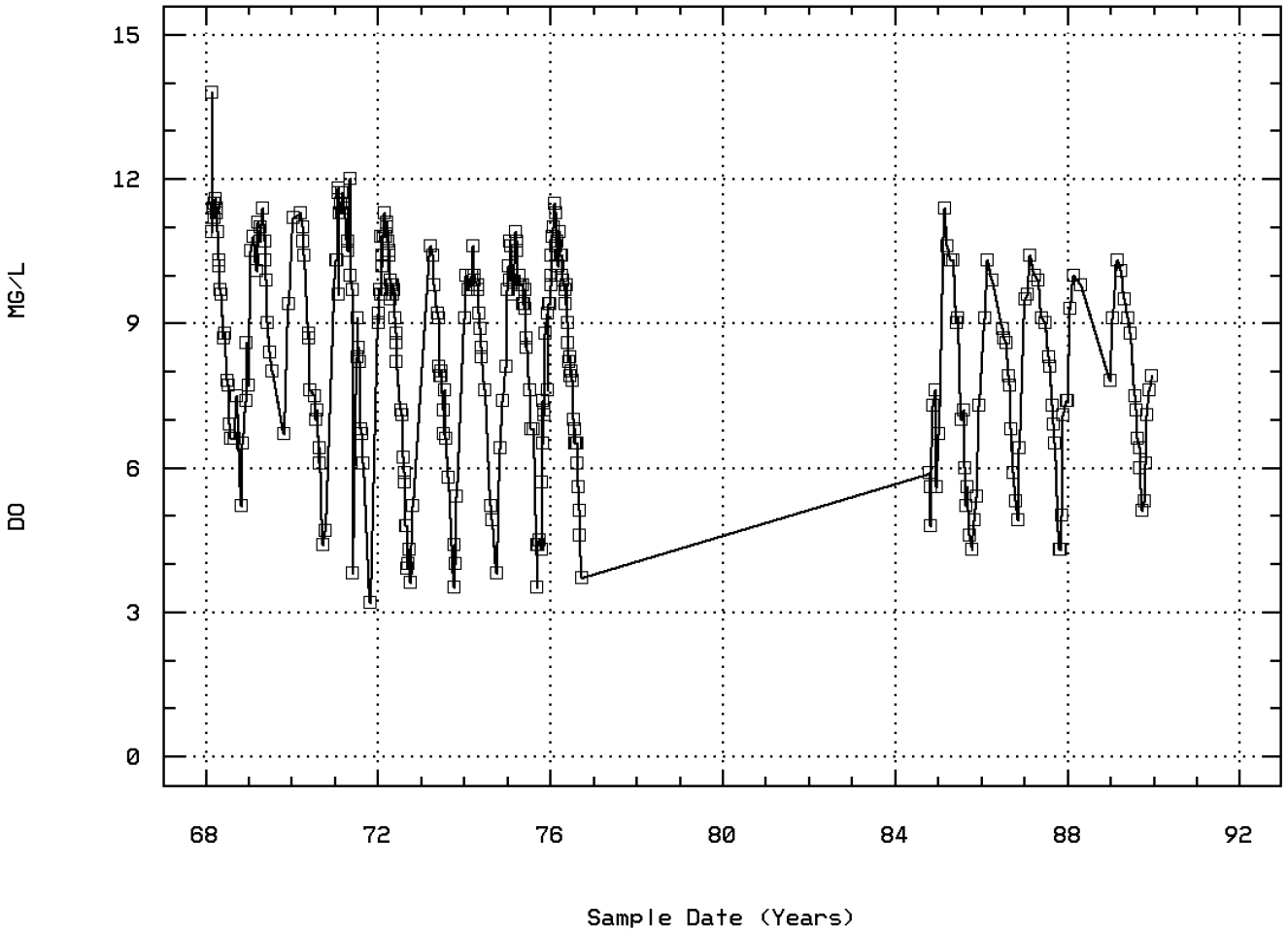
EPA Water Quality Criteria Analysis for Station: GRSM0048

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	36	0	0.00	19	0	0.00	17	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	311	10	0.03	141	5	0.04	170	5	0.03						
00400	PH	Other-Hi Lim.	9.	36	0	0.00	19	0	0.00	17	0	0.00						
		Other-Lo Lim.	6.5	36	29	0.81	19	12	0.63	17	17	1.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	36	0	0.00	19	0	0.00	17	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	36	0	0.00	19	0	0.00	17	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	36	0	0.00	19	0	0.00	17	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	3	0	0.00	2	0	0.00	1	0	0.00						

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

Station: GRSM0048 Parameter Code: 00300

OXYGEN, DISSOLVED



SANTEETLAH POWERHOUSE TAILRACE

Annual Analysis for 1968 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/68-12/11/89	26	7.8	8.75	17.2	4.4	11.731	3.425	5.6	6.1	10.275	15.33
00300p	OXYGEN, DISSOLVED MG/L	02/23/68-12/11/89	26	9.2	9.223	13.8	5.2	4.566	2.137	6.57	7.475	11.225	11.53

** - Less 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 GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/68-12/11/89	16	7.2	8.025	15.6	5.	7.723	2.779	5.	5.725	9.725	12.45
00300p	OXYGEN, DISSOLVED MG/L	02/23/68-12/11/89	16	10.2	9.869	11.4	6.7	1.646	1.283	7.61	9.1	10.775	11.19

** - 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

Annual Analysis for 1970 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/68-12/11/89	16	10.55	11.588	21.1	5.	25.853	5.085	5.42	7.05	16.	20.33
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/29/70-12/11/89	2	612.5	612.5	786.	439.	60204.5	245.366	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	02/23/68-12/11/89	16	8.15	8.375	11.3	4.4	5.542	2.354	4.61	6.55	10.925	11.23

** - 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 1971 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/68-12/11/89	25	7.8	9.052	18.3	4.4	13.371	3.657	5.6	5.85	11.95	14.34
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/29/70-12/11/89	23	804.	796.565	884.	398.	11374.984	106.654	692.4	769.	880.	884.
00300p	OXYGEN, DISSOLVED MG/L	02/23/68-12/11/89	25	10.	9.348	12.	3.2	5.917	2.432	5.18	8.25	11.35	11.74

** - Less 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 GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/68-12/11/89	36	9.15	10.678	18.9	6.1	14.534	3.812	7.05	7.8	13.3	16.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/29/70-12/11/89	34	864.	838.824	892.	421.	11361.241	106.589	830.	860.	869.	880.
00300p	OXYGEN, DISSOLVED MG/L	02/23/68-12/11/89	36	9.55	8.389	11.3	3.6	6.072	2.464	4.21	5.975	10.4	10.86

** - Less 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 GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/68-12/11/89	19	12.2	12.721	18.3	6.7	12.313	3.509	8.9	9.4	15.6	17.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/29/70-12/11/89	19	860.	857.053	864.	826.	135.275	11.631	826.	858.	864.	864.
00300p	OXYGEN, DISSOLVED MG/L	02/23/68-12/11/89	19	7.9	7.437	10.6	3.5	4.382	2.093	4.	5.8	9.1	10.4

** - 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 1974 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/68-12/11/89	24	9.4	10.858	18.3	7.8	9.61	3.1	8.3	8.9	12.525	16.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/29/70-12/11/89	24	835.5	811.5	868.	421.	8320.522	91.217	752.	800.25	864.	868.
00300p	OXYGEN, DISSOLVED MG/L	02/23/68-12/11/89	22	9.45	8.523	10.6	3.8	3.632	1.906	4.99	7.55	9.925	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 1975 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/68-12/11/89	39	10.6	11.831	19.7	7.2	17.215	4.149	7.2	8.	15.6	18.3
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/29/70-12/11/89	39	773.	705.41	886.	204.	31754.88	178.199	426.	752.	800.	848.
00300p	OXYGEN, DISSOLVED MG/L	02/23/68-12/11/89	38	9.35	8.361	10.9	3.5	4.383	2.094	4.4	7.025	9.8	10.61

** - Less 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 GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/68-12/11/89	49	10.	10.384	19.	5.	17.146	4.141	6.	6.9	14.5	17.
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/29/70-12/11/89	48	839.	801.542	896.	422.	16305.02	127.691	509.4	813.25	864.	880.4
00300p	OXYGEN, DISSOLVED MG/L	02/23/68-12/11/89	38	9.75	8.866	11.5	3.7	4.556	2.134	5.55	6.95	10.725	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

Annual Analysis for 1977 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/68-12/11/89	9	5.	5.889	8.	4.	2.111	1.453	4.	5.	7.5	8.
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/29/70-12/11/89	9	812.	809.667	840.	791.	218.25	14.773	791.	796.	816.	840.

** - Less 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 GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/68-12/11/89	6	16.75	15.833	19.	11.	11.267	3.357	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/29/70-12/11/89	6	451.5	454.333	486.	426.	953.067	30.872	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	02/23/68-12/11/89	6	5.75	6.133	7.6	4.8	1.183	1.088	**	**	**	**

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

Annual Analysis for 1985 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/68-12/11/89	16	13.25	12.781	19.5	6.	18.632	4.317	6.35	8.625	17.	18.45
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/29/70-12/11/89	17	687.	633.765	869.	236.	31869.941	178.522	419.2	485.	764.	868.2
00300p	OXYGEN, DISSOLVED MG/L	02/23/68-12/11/89	17	7.	7.347	11.4	4.3	5.431	2.331	4.54	5.3	9.7	10.76

** - Less 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 GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/68-12/11/89	14	11.75	12.143	17.5	7.	13.824	3.718	7.5	8.875	15.375	17.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/29/70-12/11/89	14	727.5	658.214	852.	350.	32319.566	179.776	385.	468.75	821.5	841.5
00300p	OXYGEN, DISSOLVED MG/L	02/23/68-12/11/89	14	8.25	7.85	10.3	4.9	3.009	1.735	5.1	6.275	9.2	10.1

** - 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 1987 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/68-12/11/89	18	12.5	12.25	17.5	7.	11.066	3.327	7.9	8.5	14.75	17.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/29/70-12/11/89	18	740.	667.556	872.	401.	28288.497	168.192	454.1	481.5	824.	845.
00300p	OXYGEN, DISSOLVED MG/L	02/23/68-12/11/89	17	7.4	7.682	10.4	4.3	3.649	1.91	4.3	6.7	9.35	10.08

** - Less 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 GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/68-12/11/89	4	8.	8.875	12.	7.5	4.563	2.136	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/29/70-12/11/89	4	847.	850.25	877.	830.	398.917	19.973	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	02/23/68-12/11/89	4	9.55	9.225	10.	7.8	0.989	0.995	**	**	**	**

** - Less 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

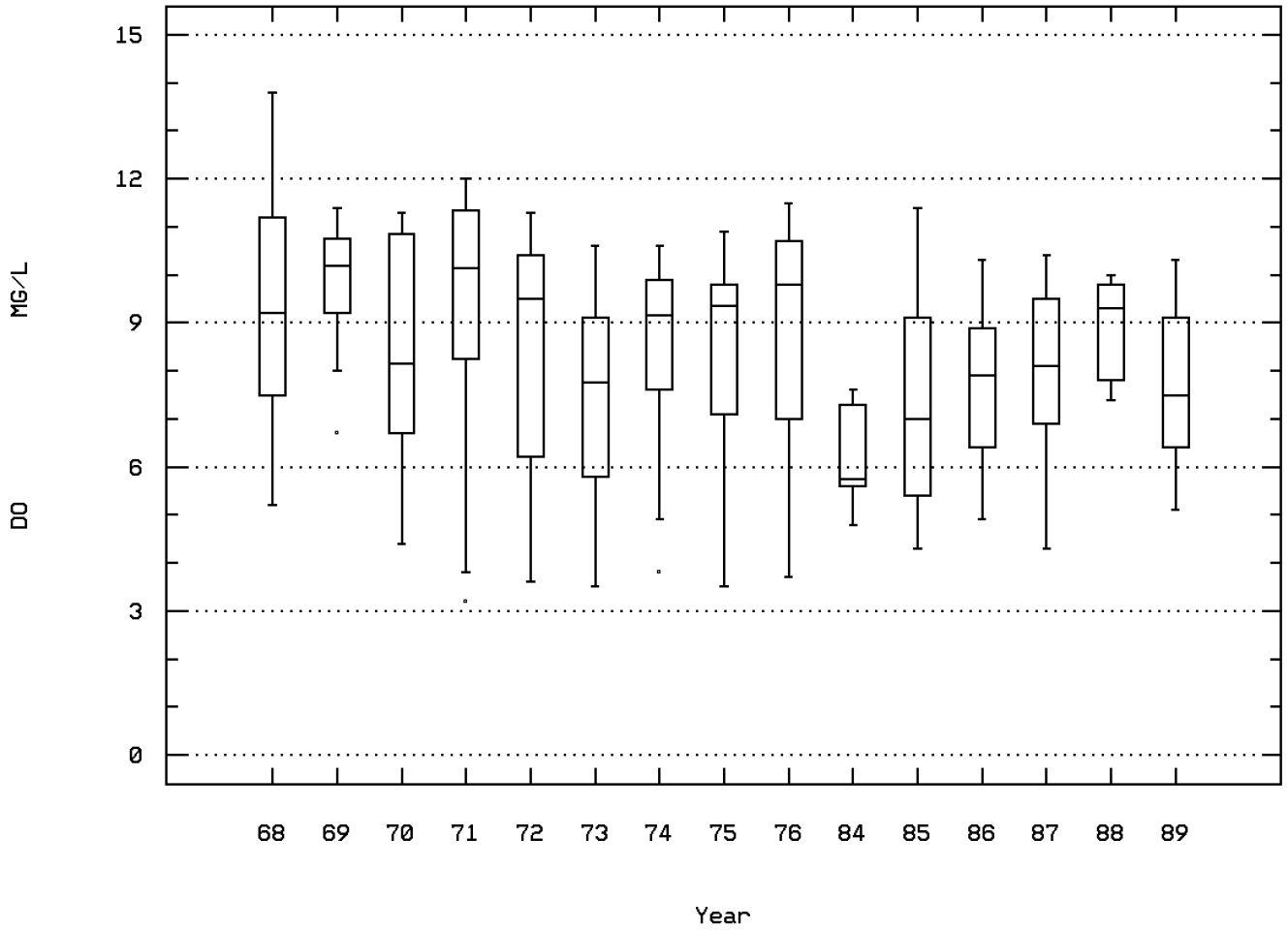
Annual Analysis for 1989 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/68-12/11/89	17	16.	14.706	18.5	9.5	11.721	3.424	9.5	11.5	18.	18.1
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/29/70-12/11/89	17	832.	809.765	872.	480.	7981.941	89.342	720.	801.	850.	862.4
00300p	OXYGEN, DISSOLVED MG/L	02/23/68-12/11/89	17	7.5	7.629	10.3	5.1	2.648	1.627	5.26	6.25	9.1	10.14

** - 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

Station: GRSM0048 Parameter Code: 00300

OXYGEN, DISSOLVED



SANTEETLAH POWERHOUSE TAILRACE

Seasonal Analysis for Season #1: 10/01 to 3/31 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/68-12/11/89	161	8.3	10.032	20.	4.	20.139	4.488	5.6	6.6	13.	17.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/29/70-12/11/89	138	816.5	760.717	888.	236.	23901.912	154.602	426.9	770.5	858.5	869.3
00300	OXYGEN, DISSOLVED MG/L	02/23/68-12/11/89	141	9.8	8.853	13.8	3.2	5.74	2.396	4.92	7.15	10.75	11.3

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

Seasonal Analysis for Season #2: 4/01 to 9/30 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/68-12/11/89	173	11.1	11.78	21.1	6.1	12.752	3.571	7.62	8.9	14.5	17.
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/29/70-12/11/89	136	834.	764.831	896.	204.	22779.46	150.929	478.8	755.	864.	873.2
00300	OXYGEN, DISSOLVED MG/L	02/23/68-12/11/89	170	8.3	8.066	12.	3.5	3.686	1.92	5.11	6.7	9.7	10.39

** - Less 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: GRSM0049

NPS Station ID: GRSM0049
LAT/LON: 35.449170/ -83.902505
Agency: 131TVAC
Date Created: 10/27/90
Location: SANTEETLAH POWERHOUSE TAILRACE
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 360217X
RMI-Indexes: 1021500 007720 00920 8540
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 601.10 056.80
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 56.8
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 0.20
On/Off RF1:
RF3 Index: 06010202000100.01
RF3 Mile Point: 0.00
Distance from RF3: 0.01
On/Off RF3:
Description:
THE SAMPLES COLLECTED AT THIS STATION WERE SHIPPED TO THE ENVIRONMENTAL CHEMISTRY LABORATORY IN CHATTANOOGA IN PLASTIC SHIPPING CONTAINERS FOR ANALYSES. IT IS NOW DOCUMENTED THAT THE DISSOLVED OXYGEN CONCENTRATIONS MEASURED WERE TOO LOW DUE TO THE USE OF THE PLASTIC CONTAINERS. BECAUSE THE ERROR IS VARIABLE, AND THE INDIVIDUAL MEASUREMENTS CANNOT BE

Parameter Inventory for Station: GRSM0049

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: GRSM0050

NPS Station ID: GRSM0050
LAT/LON: 35.450004/ -83.791671
Agency: 12ELS1
Date Created: 04/16/88
Location: FONTANA LAKE
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 3A2-007
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010204
Depth of Water: 337
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 0.90
On/Off RF1:
RF3 Index: 06010204002013.24
RF3 Mile Point: 13.24
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/20/84-11/20/84	1	16.6	16.6	16.6	16.6	0.	0.	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	11/20/84-11/20/84	1	3.75	3.75	3.75	3.75	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	11/20/84-11/20/84	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/20/84-11/20/84	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00154	SULFATE (AS S) WHOLE WATER, MG/L	11/20/84-11/20/84	1	1.59	1.59	1.59	1.59	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/20/84-11/20/84	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/20/84-11/20/84	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/84-11/20/84	1	0.126	0.126	0.126	0.126	0.	0.	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	11/20/84-11/20/84	1	139.5	139.5	139.5	139.5	0.	0.	**	**	**	**
00662	PHOSPHORUS (P), WATER, TOTAL RECOVERABLE UG/L	11/20/84-11/20/84	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	11/20/84-11/20/84	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	11/20/84-11/20/84	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
00910	CALCIUM (MG/L AS CACO3)	11/20/84-11/20/84	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/20/84-11/20/84	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/20/84-11/20/84	1	1.45	1.45	1.45	1.45	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/20/84-11/20/84	1	1.08	1.08	1.08	1.08	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/20/84-11/20/84	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/20/84-11/20/84	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/20/84-11/20/84	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/20/84-11/20/84	1	37.	37.	37.	37.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	11/20/84-11/20/84	1	21.	21.	21.	21.	0.	0.	**	**	**	**
70151	SURFACE AREA OF LAKE OR RESERVOIR SQ KM	11/20/84-11/20/84	1	41.948	41.948	41.948	41.948	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/20/84-11/20/84	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
71885	IRON (UG/L AS FE)	11/20/84-11/20/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	11/20/84-11/20/84	1	1708.09	1708.09	1708.09	1708.09	0.	0.	**	**	**	**
82047	DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	11/20/84-11/20/84	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/20/84-11/20/84	1	0.9	0.9	0.9	0.9	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 time series plot

EPA Water Quality Criteria Analysis for Station: GRSM0050

			Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			--------------n/a--------------			--------------n/a--------------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00154 SULFATE (AS S) WHOLE WATER	Drinking Water	400.	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: GRSM0050

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	1	1	1.00	1	1	1.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0051

NPS Station ID: GRSM0051
LAT/LON: 35.450004/ -83.816670
Agency: 11EPALES
Date Created: / /
Location: LITTLE TENNESSEE
FIPS State/County: 37000 NORTH CAROLINA/
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 3704A1 /LS3704A1
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010202
Depth of Water: 0
Aquifer:
Major Basin: O/FONTANA LAKE
Elevation: 0
Water Body Id:
Minor Basin: 300 FT ABOVE HWY 28 BRDG BELO DAM
ECO Region:
RF1 Index: 06010202009
RF1 Mile Point: 3.710
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010202003704.80
RF3 Mile Point: 6.11
Distance from RF3: 0.03
On/Off RF3:
Description:
300 FT ABOVE ST HWY 28 BRDG ABOUT 1 MI DOWNSTREAM FROM FONTANA DAM

Parameter Inventory for Station: GRSM0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.087	0.096	0.24	0.012	0.004	0.065	0.015	0.031	0.134	0.206
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.002	0.005	0.02	0.001	0.	0.007	0.001	0.001	0.01	0.018
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.49	0.483	0.616	0.316	0.006	0.08	0.354	0.415	0.543	0.594
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	12	0.8	0.95	2.51	0.05	0.618	0.786	0.068	0.263	1.643	2.327
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	13	0.51	0.487	0.62	0.32	0.007	0.082	0.356	0.415	0.545	0.604
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/24/74	12	0.02	0.018	0.038	0.003	0.	0.01	0.004	0.01	0.024	0.036
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	13	0.008	0.006	0.011	0.003	0.	0.003	0.003	0.003	0.009	0.011

** - Less 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: GRSM0051

				Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	13	0	0.00	8	0	0.00	5	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	13	0	0.00	8	0	0.00	5	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	13	0	0.00	8	0	0.00	5	0	0.00						

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

Station Inventory for Station: GRSM0052

NPS Station ID: GRSM0052
LAT/LON: 35.450004/ -83.929170
Agency: 12ELS1
Date Created: 04/16/88
Location: LAKE CHEOAH
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 3A1-004
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010204
Depth of Water: 167
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 0.70
On/Off RF1:
RF3 Index: 06010202000100.04
RF3 Mile Point: 0.04
Distance from RF3: 0.06
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/20/84-11/20/84	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	11/20/84-11/20/84	1	2.35	2.35	2.35	2.35	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	11/20/84-11/20/84	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/20/84-11/20/84	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00154	SULFATE (AS S) WHOLE WATER, MG/L	11/20/84-11/20/84	1	1.63	1.63	1.63	1.63	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/20/84-11/20/84	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/20/84-11/20/84	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/84-11/20/84	1	0.126	0.126	0.126	0.126	0.	0.	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	11/20/84-11/20/84	1	153.6	153.6	153.6	153.6	0.	0.	**	**	**	**
00662	PHOSPHORUS (P), WATER, TOTAL RECOVERABLE UG/L	11/20/84-11/20/84	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	11/20/84-11/20/84	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	11/20/84-11/20/84	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
00910	CALCIUM (MG/L AS CACO3)	11/20/84-11/20/84	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/20/84-11/20/84	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/20/84-11/20/84	1	1.43	1.43	1.43	1.43	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/20/84-11/20/84	1	1.07	1.07	1.07	1.07	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/20/84-11/20/84	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/20/84-11/20/84	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/20/84-11/20/84	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/20/84-11/20/84	1	134.	134.	134.	134.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	11/20/84-11/20/84	1	62.	62.	62.	62.	0.	0.	**	**	**	**
70151	SURFACE AREA OF LAKE OR RESERVOIR SQ KM	11/20/84-11/20/84	1	2.343	2.343	2.343	2.343	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/20/84-11/20/84	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
71885	IRON (UG/L AS FE)	11/20/84-11/20/84	1	29.	29.	29.	29.	0.	0.	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	11/20/84-11/20/84	1	1275.98	1275.98	1275.98	1275.98	0.	0.	**	**	**	**
82047	DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	11/20/84-11/20/84	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/20/84-11/20/84	1	2.2	2.2	2.2	2.2	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: GRSM0052

				Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			--------------n/a--------------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00154	SULFATE (AS S) WHOLE WATER	Drinking Water	400.	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: GRSM0052

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	1	1	1.00	1	1	1.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0053

NPS Station ID: GRSM0053
LAT/LON: 35.450004/ -83.933337
Agency: 131TVAC
Date Created: / /
Location: SANTEETLAH RESERVOIR
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM/SOLIDS
STORET Station ID(s): 360237 /4022
RMI-Indexes: 1021500 007720 00920 8540 2840
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 601.10 051.20 011.00
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: CHEOAH RIVER 11+-
ECO Region:
RF1 Index: 06010204036
RF1 Mile Point: 0.650
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010202000100.08
RF3 Mile Point: 0.07
Distance from RF3: 0.18
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	06/27/73-06/27/73	1	101000.	101000.	101000.	101000.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	06/27/73-06/27/73	1	750.	750.	750.	750.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/27/73-06/27/73	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/27/73-06/27/73	1	98.	98.	98.	98.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/27/73-06/27/73	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/27/73-06/27/73	1	31.	31.	31.	31.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/27/73-06/27/73	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/27/73-06/27/73	1	34.	34.	34.	34.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/27/73-06/27/73	1	460.	460.	460.	460.	0.	0.	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	06/27/73-06/27/73	1 ##	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/27/73-06/27/73	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	06/27/73-06/27/73	1 ##	1.65	1.65	1.65	1.65	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/27/73-06/27/73	1	33.	33.	33.	33.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/27/73-06/27/73	1	84.	84.	84.	84.	0.	0.	**	**	**	**
01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/27/73-06/27/73	1 ##	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	06/27/73-06/27/73	1 ##	33.5	33.5	33.5	33.5	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/27/73-06/27/73	1	18000.	18000.	18000.	18000.	0.	0.	**	**	**	**
01133	LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	06/27/73-06/27/73	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/27/73-06/27/73	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/27/73-06/27/73	1	47000.	47000.	47000.	47000.	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/27/73-06/27/73	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
80111	NITROGEN, TOTAL IN DRIED MATERIAL (MG/KG)	06/27/73-06/27/73	1	3800.	3800.	3800.	3800.	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

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

Station Inventory for Station: GRSM0054

NPS Station ID: GRSM0054
LAT/LON: 35.450004/ -83.941670
Agency: 131TVAC
Date Created: 03/30/77
Location:
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 360268
RMI-Indexes: 1021500 007720 00920 8540
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 601.10 051.10
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 51.1
ECO Region:
RF1 Index: 06010204020
RF1 Mile Point: 13.730
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010204002503.05
RF3 Mile Point: 3.04
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0054

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/77-12/27/78	23	12.2	12.17	19.	4.	20.363	4.513	5.44	8.3	16.5	17.48
00061	FLOW, STREAM, INSTANTANEOUS CFS	02/15/77-12/27/78	22	5249.5	5116.318	8220.	0.	6002869.18	2450.075	502.8	4460.	7354.5	8158.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/77-12/27/78	23	3.4	3.096	5.5	0.5	2.12	1.456	1.1	2.	4.2	5.28
00080	COLOR (PLATINUM-COBALT UNITS)	02/15/77-12/27/78	23	6.	8.087	33.	3.	34.265	5.854	4.4	5.	10.	10.6
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	02/15/77-09/20/77	8	12.5	15.625	49.	5.	190.268	13.794	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/15/77-12/27/78	23	21.	21.696	32.	16.	9.767	3.125	18.4	20.	23.	25.2
00300	OXYGEN, DISSOLVED MG/L	03/15/77-12/27/78	22	9.35	9.445	12.1	6.6	3.138	1.771	7.16	7.775	11.35	11.97
00310	BOD, 5 DAY, 20 DEG C MG/L	02/15/77-12/27/78	23 ##	0.5	0.617	2.1	0.5	0.13	0.36	0.5	0.5	0.5	1.06
00335	COD, .025N K2CR2O7 MG/L	02/15/77-10/24/78	8	3.	4.625	12.	1.	12.839	3.583	**	**	**	**
00400	PH (STANDARD UNITS)	02/15/77-12/27/78	23	6.5	6.457	7.4	5.1	0.271	0.52	5.6	6.2	6.8	7.
00400	CONVERTED PH (STANDARD UNITS)	02/15/77-12/27/78	23	6.5	6.065	7.4	5.1	0.431	0.656	5.6	6.2	6.8	7.
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/15/77-12/27/78	23	0.316	0.86	7.943	0.04	3.052	1.747	0.1	0.158	0.631	2.892
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/15/77-12/27/78	23	7.	7.391	10.	6.	1.522	1.234	6.	6.	8.	9.6
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/15/77-12/27/78	23	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/15/77-10/24/78	8	1.5	1.938	4.	0.5	1.603	1.266	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	02/15/77-12/27/78	23	0.04	0.054	0.16	0.005	0.002	0.05	0.005	0.02	0.07	0.146
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/15/77-12/27/78	23	0.02	0.025	0.08	0.005	0.	0.022	0.005	0.01	0.03	0.066
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/15/77-12/27/78	23	0.15	0.159	0.23	0.11	0.001	0.038	0.11	0.13	0.2	0.21
00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/15/77-12/27/78	23	0.01	0.012	0.02	0.005	0.	0.004	0.01	0.01	0.01	0.02
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/15/77-10/24/78	8	0.95	0.838	1.3	0.1	0.126	0.354	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	02/15/77-10/24/78	8	3.05	3.188	5.6	1.	2.561	1.6	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/15/77-10/24/78	8	0.6	0.638	0.9	0.5	0.014	0.119	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	02/15/77-10/24/78	8	1.2	1.375	3.	1.	0.451	0.671	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	02/15/77-10/24/78	8	0.6	0.598	0.7	0.5	0.008	0.087	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	02/15/77-10/24/78	8	1.5	2.188	6.	0.5	4.067	2.017	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	02/15/77-10/24/78	8 ##	0.75	1.5	4.	0.5	1.857	1.363	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	02/15/77-08/09/77	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	02/15/77-02/15/77	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	02/15/77-08/09/77	3 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	02/15/77-08/09/77	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	02/15/77-02/15/77	1	120.	120.	120.	120.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	02/15/77-10/24/78	8 ##	0.5	2.063	13.	0.5	19.531	4.419	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	02/15/77-10/24/78	8 ##	12.5	17.188	40.	2.5	216.853	14.726	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	02/15/77-12/27/78	23	150.	261.087	2400.	25.	224233.992	473.534	25.	140.	240.	328.
01046	IRON, DISSOLVED (UG/L AS FE)	02/15/77-12/27/78	22 ##	25.	39.727	170.	25.	1094.97	33.09	25.	25.	50.	74.
01051	LEAD, TOTAL (UG/L AS PB)	02/15/77-10/24/78	8 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	02/15/77-12/27/78	23	24.	45.957	390.	5.	6347.498	79.671	5.	10.	40.	104.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	02/15/77-12/27/78	22	20.	27.182	100.	5.	710.727	26.659	5.	5.	47.	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 time series plot

Parameter Inventory for Station: GRSM0054

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01067	NICKEL, TOTAL (UG/L AS NI)	02/15/77-10/24/78	8 ##	25.	17.5	25.	5.	107.143	10.351	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	02/15/77-08/09/77	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	02/15/77-10/24/78	8	80.	75.	140.	20.	1485.714	38.545	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	02/15/77-10/24/78	8 ##	100.	118.75	200.	100.	1269.643	35.632	**	**	**	**
01132	LITHIUM, TOTAL (UG/L AS LI)	02/15/77-08/09/77	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01152	TITANIUM, TOTAL (UG/L AS TI)	02/15/77-08/09/77	3 ##	500.	500.	500.	500.	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	02/15/77-12/27/78	22	300.	962.5	6000.	5.	2280942.262	1510.279	50.	95.	1375.	3520.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	02/15/77-12/27/78	22	2.477	2.469	3.778	0.699	0.57	0.755	1.699	1.976	3.136	3.545
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			294.695								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/15/77-12/27/78	22 ##	12.5	42.5	360.	5.	6816.071	82.56	5.	5.	50.	155.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/15/77-12/27/78	22 ##	1.	1.191	2.556	0.699	0.333	0.577	0.699	0.699	1.699	2.12
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			15.519								
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	02/15/77-10/24/78	8	10.5	10.5	16.	5.	14.571	3.817	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/15/77-10/24/78	8	20.	22.5	50.	10.	164.286	12.817	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	02/15/77-10/24/78	8 ##	0.1	0.1	0.1	0.1	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: GRSM0054

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	23	0	0.00	11	0	0.00	12	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	22	0	0.00	10	0	0.00	12	0	0.00						
00400	PH	Other-Hi Lim.	9.	23	0	0.00	11	0	0.00	12	0	0.00						
		Other-Lo Lim.	6.5	23	13	0.57	11	7	0.64	12	6	0.50						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	23	0	0.00	11	0	0.00	12	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	8	0	0.00	4	0	0.00	4	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	8	0	0.00	4	0	0.00	4	0	0.00						
01007	BARIUM, TOTAL	Drinking Water	2000.	3	0	0.00	1	0	0.00	2	0	0.00						
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	3	0	0.00	1	0	0.00	2	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	8	1	0.13	4	0	0.00	4	1	0.25						
		Drinking Water	5.	8	1	0.13	4	0	0.00	4	1	0.25						
01042	COPPER, TOTAL	Fresh Acute	18.	8	4	0.50	4	2	0.50	4	2	0.50						
		Drinking Water	1300.	8	0	0.00	4	0	0.00	4	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	8	0	0.00	4	0	0.00	4	0	0.00						
		Drinking Water	5.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	8	0	0.00	4	0	0.00	4	0	0.00						
		Drinking Water	100.	8	0	0.00	4	0	0.00	4	0	0.00						
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	50.	3	0	0.00	1	0	0.00	2	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	8	1	0.13	4	0	0.00	4	1	0.25						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	22	6	0.27	11	2	0.18	11	4	0.36						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	22	2	0.09	11	1	0.09	11	1	0.09						
71900	MERCURY, TOTAL	Fresh Acute	2.4	8	0	0.00	4	0	0.00	4	0	0.00						
		Drinking Water	2.	8	0	0.00	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: GRSM0055

NPS Station ID: GRSM0055
LAT/LON: 35.450004/ -83.941949
Agency: 21NC01WQ
Date Created: / /
Location: LITTLE TENNESSEE RIVER AT TAPOCO NC
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/FISH/STREAM/SOLIDS
STORET Station ID(s): G9900000 /LTN038 /040404009 /03515152
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010204
Depth of Water: 1
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE
ECO Region:
RF1 Index: 06010204020
RF1 Mile Point: 13.730
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010204003100.00
RF3 Mile Point: 1.48
Distance from RF3: 0.05
On/Off RF3:
Description:
LOCATION: FROM JCT OF NC 28 & US 129 NEAR TAPOCO TRAVEL S ON US 129 2.3 MI TO BRIDGE OVER LITTLE TENNESSEE RIVER. LOCATED TO DEFINE QUALITY OF WATER FROM TAPOCO, INC. WTP. SAMPLED AT 3' DEPTH AT 1/3 POINTS FROM BRIDGE BY OWAR. ACTIVATION DATE 680514.

Parameter Inventory for Station: GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-10/22/86	155	12.	12.09	21.	4.	13.901	3.728	7.	9.	15.	17.
00023	SAMPLE WEIGHT IN POUNDS	06/20/68-11/21/74	12	14.	13.708	21.	10.	7.566	2.751	10.3	12.	14.375	19.2
00060	FLOW, STREAM, MEAN DAILY CFS	06/20/68-08/24/71	9	6561.	6439.222	8130.	3635.	2447018.194	1564.295	3635.	5311.	8029.5	8130.
00065	STAGE, STREAM (FEET)	02/27/74-09/19/78	14	5203.5	3927.143	8130.	10.16	12987331.232	3603.794	24.755	54.028	7586.25	8094.5
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/26/73-08/20/86	110	2.95	4.183	57.	0.07	36.016	6.001	0.53	1.675	5.	8.9
00077	TRANSPARENCY, SECCHI DISC (INCHES)	05/29/74-05/29/74	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/77-08/29/78	6	10.	10.	15.	3.	15.6	3.95	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-08/20/86	58	25.	25.828	46.	15.	35.829	5.986	21.	22.75	27.	37.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/27/74-12/07/81	52	20.	27.25	220.	10.	856.113	29.259	15.	20.	24.	40.
00300	OXYGEN, DISSOLVED MG/L	06/20/68-10/22/86	154	9.5	9.372	13.8	3.3	2.731	1.653	7.15	8.25	10.6	11.45
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-09/06/85	83	89.	87.145	113.	37.	159.345	12.623	71.4	81.	95.	102.6
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-08/20/86	128	0.4	0.486	1.7	0.05	0.081	0.284	0.2	0.3	0.6	0.81
00335	COD, .025N K2CR2O7 MG/L	11/26/73-12/31/84	46 ##	2.5	3.913	12.5	2.5	4.903	2.214	2.5	2.5	5.	5.
00340	COD, .25N K2CR2O7 MG/L	04/02/74-04/16/81	72 ##	5.	6.354	12.5	5.	8.44	2.905	5.	5.	5.	12.5
00400	PH (STANDARD UNITS)	06/20/68-10/22/86	140	6.6	6.513	7.1	3.6	0.135	0.367	6.1	6.4	6.7	6.9
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-10/22/86	140	6.6	5.666	7.1	3.6	0.857	0.926	6.1	6.4	6.7	6.9
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-10/22/86	140	0.251	2.156	251.189	0.079	449.468	21.201	0.126	0.2	0.398	0.794
00403	PH, LAB, STANDARD UNITS SU	11/15/79-10/22/86	83	6.6	6.595	6.8	6.3	0.015	0.122	6.4	6.5	6.7	6.7
00403	CONVERTED PH, LAB, STANDARD UNITS	11/15/79-10/22/86	83	6.6	6.578	6.8	6.3	0.015	0.123	6.4	6.5	6.7	6.7
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/15/79-10/22/86	83	0.251	0.264	0.501	0.158	0.006	0.079	0.2	0.2	0.316	0.398
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-10/22/86	153	7.	6.882	17.	2.	3.157	1.777	5.	6.	7.	8.6
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-09/08/80	67	0.	1.403	53.	0.	58.82	7.669	0.	0.	0.	0.
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	09/08/80-12/11/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/22/86	68	7.	6.765	12.	4.	2.481	1.575	5.	5.25	8.	9.
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/04/70-08/04/70	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	08/04/70-08/04/70	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	02/15/77-10/22/86	91	29.	28.846	67.	8.	129.998	11.402	14.	21.	35.	40.8
00505	RESIDUE, TOTAL VOLATILE (MG/L)	10/31/80-01/16/85	48	13.5	13.198	31.	0.5	62.21	7.887	2.9	6.25	17.75	24.3
00510	RESIDUE, TOTAL FIXED (MG/L)	10/31/80-01/16/85	48	16.	15.729	33.	1.	41.521	6.444	7.	12.	19.75	23.1
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/25/73-11/21/74	2	0.5	0.5	1.	0.	0.5	0.707	**	**	**	**
00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	08/04/70-06/25/73	6 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/15/77-10/22/86	92	2.	2.88	16.	0.5	6.436	2.537	0.5	1.	4.	5.
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	10/31/80-01/16/85	48	2.	1.896	5.	0.5	2.18	1.477	0.5	0.5	3.	4.1

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

Parameter Inventory for Station: GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	10/31/80-01/16/85	48 ##	0.5	1.302	6.	0.5	1.955	1.398	0.5	0.5	1.75	4.
00600	NITROGEN, TOTAL (MG/L AS N)	06/25/73-11/21/74	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-10/22/86	111 ##	0.025	0.031	0.12	0.005	0.	0.021	0.01	0.025	0.03	0.06
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-10/22/86	113	0.1	0.116	0.6	0.005	0.008	0.089	0.05	0.05	0.2	0.2
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-10/22/86	113	0.16	0.307	16.	0.09	2.221	1.49	0.124	0.14	0.18	0.21
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	06/20/68-11/21/74	12	9.	8.483	10.7	3.3	3.736	1.933	4.53	7.7	9.775	10.49
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/28/75-05/28/75	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-10/22/86	124 ##	0.025	0.027	0.1	0.005	0.001	0.024	0.01	0.01	0.025	0.04
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/09/77-12/11/80	11 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
00740	SULFITE (MG/L AS SO3)	06/25/73-11/21/74	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
00745	SULFIDE, TOTAL (MG/L AS S)	06/20/68-06/25/73	11 ##	0.1	0.1	0.1	0.1	0.	0.	0.1	0.1	0.1	0.1
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/77-08/20/86	21	6.	5.667	8.	2.	3.033	1.742	2.2	5.	6.5	8.
00916	CALCIUM, TOTAL (MG/L AS CA)	02/15/77-03/21/78	8	1.3	4.563	25.	0.8	69.251	8.322	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/15/77-10/18/77	4	0.55	2.025	6.5	0.5	8.902	2.984	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	02/15/77-10/18/77	4	1.55	1.475	1.8	1.	0.129	0.359	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	02/15/77-04/25/78	6	0.75	0.917	2.	0.5	0.342	0.585	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	02/15/77-08/29/78	6 ##	2.5	3.083	6.	2.5	2.042	1.429	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	02/15/77-08/29/78	7	0.1	0.136	0.4	0.05	0.016	0.128	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	06/25/73-11/21/74	2	247.5	247.5	270.	225.	1012.5	31.82	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/29/74-08/20/86	41 ##	5.	7.195	90.	5.	176.311	13.278	5.	5.	5.	5.
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	07/15/81-11/29/84	4	2.05	2.85	5.9	1.4	4.243	2.06	**	**	**	**
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	02/22/82-02/22/82	2 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	08/09/77-08/09/77	1 ##	500.	500.	500.	500.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/09/77-08/09/77	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/29/74-08/20/86	54 ##	25.	20.296	50.	1.	77.948	8.829	10.	10.	25.	25.
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/15/81-11/29/84	4 ##	0.25	0.225	0.3	0.1	0.007	0.087	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/15/81-11/29/84	4	8.2	10.3	20.	4.8	44.553	6.675	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/25/73-11/21/74	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/28/75-08/20/86	53 ##	25.	23.868	25.	2.5	17.444	4.177	25.	25.	25.	25.
01037	COBALT, TOTAL (UG/L AS CO)	05/29/74-09/14/81	32 ##	50.	49.219	50.	25.	19.531	4.419	50.	50.	50.	50.
01040	COPPER, DISSOLVED (UG/L AS CU)	06/25/73-11/21/74	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/29/74-08/20/86	54 ##	20.	75.111	3000.	1.	164672.176	405.798	10.	10.	20.	40.
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	07/15/81-11/29/84	4	12.5	12.	13.	10.	2.	1.414	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/29/74-09/14/81	36	100.	109.583	400.	25.	6826.25	82.621	50.	50.	167.5	200.
01051	LEAD, TOTAL (UG/L AS PB)	05/29/74-08/20/86	53 ##	50.	51.509	100.	5.	264.985	16.278	50.	50.	50.	50.
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	07/15/81-11/29/84	4	15.5	15.	18.	11.	10.	3.162	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/29/74-09/14/81	34 ##	25.	62.353	370.	25.	5774.599	75.991	25.	25.	70.	100.
01067	NICKEL, TOTAL (UG/L AS NI)	02/15/77-08/20/86	33 ##	50.	53.939	300.	5.	2058.996	45.376	25.	50.	50.	50.
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/05/81-11/29/84	3	11.	9.733	11.	7.2	4.813	2.194	**	**	**	**
01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	02/22/82-02/22/82	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/69-06/25/73	5	20.	188.	500.	10.	58470.	241.806	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	08/09/77-08/09/77	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/29/74-08/20/86	53 ##	25.	161.34	7000.	1.	917502.613	957.864	10.	10.	25.	90.
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	11/05/81-11/29/84	3	66.	69.333	90.	52.	369.333	19.218	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	02/15/77-08/20/86	12	100.	122.917	400.	25.	10620.265	103.055	32.5	50.	175.	340.
01132	LITHIUM, TOTAL (UG/L AS LI)	06/25/73-08/09/77	3	25.	25.	50.	0.	625.	25.	**	**	**	**
31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	04/15/85-04/15/85	1	15.	15.	15.	15.	0.	0.	**	**	**	**
31504	LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,	04/15/85-04/15/85	1	1.176	1.176	1.176	1.176	0.	0.	**	**	**	**
31504	GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =			15.								
31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	06/20/68-11/21/74	12	6.	6.083	7.	4.	0.629	0.793	4.6	6.	6.75	7.
31508	LOG COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	06/20/68-11/21/74	12	0.778	0.78	0.845	0.602	0.004	0.064	0.655	0.778	0.828	0.845
31508	GM COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	GEOMETRIC MEAN =			6.029								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	145 ##	5.	17.759	500.	5.	2963.865	54.441	5.	5.	10.	30.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	145 ##	0.699	0.92	2.699	0.699	0.14	0.374	0.699	0.699	1.	1.477
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			8.324								
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/25/73-11/21/74	2	0.	0.	0.	0.	0.	0.	**	**	**	**
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/20/68-11/21/74	11	84.	80.364	99.	37.	289.655	17.019	43.8	73.	92.	98.4
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	02/22/82-02/22/82	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
34684	DIELDRIN TISMG/KG	02/22/82-02/22/82	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
34685	ENDRIN WET WGTTISMG/KG	07/15/81-02/22/82	3 ##	0.02	6.68	20.	0.02	133.067	11.535	**	**	**	**
34688	HEXACHLOROBENZENE WET WGTTISMG/KG	07/15/81-02/22/82	3 ##	0.005	1.67	5.	0.005	8.317	2.884	**	**	**	**
39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	07/15/81-02/22/82	3 ##	1.	334.	1000.	1.	332667.	576.773	**	**	**	**
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	02/22/82-02/22/82	2 ##	0.03	0.03	0.03	0.03	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: GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL	07/15/81-07/15/81	1 ##	30.	30.	30.	30.	0.	0.	**	**	**	**
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	02/22/82-02/22/82	2 ##	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	07/15/81-07/15/81	1 ##	30.	30.	30.	30.	0.	0.	**	**	**	**
39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	02/22/82-02/22/82	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	07/15/81-07/15/81	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	07/15/81-02/22/82	3 ##	0.005	1.67	5.	0.005	8.317	2.884	**	**	**	**
39075	BHC- GAMMA ISOMER, TISSUE WET WGT (UG/G)	07/15/81-02/22/82	3 ##	0.005	1.67	5.	0.005	8.317	2.884	**	**	**	**
39290	DDT TOTAL IN TISSUE WET WGT BASIS (UG/G)	02/22/82-02/22/82	2 ##	0.045	0.045	0.045	0.045	0.	0.	**	**	**	**
39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/15/81-07/15/81	1 ##	35.	35.	35.	35.	0.	0.	**	**	**	**
39302	P P DDT IN TISSUE WET WGT (UG/G)	02/22/82-02/22/82	2 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/15/81-07/15/81	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/15/81-07/15/81	1 ##	20.	20.	20.	20.	0.	0.	**	**	**	**
39312	P P DDD IN TISSUE WET WGT (UG/G)	02/22/82-02/22/82	2 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/15/81-07/15/81	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39318	O,P' DDT IN FISH OR ANIMAL BY WET WEIGHT UG/KG	02/22/82-02/22/82	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/15/81-07/15/81	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	02/22/82-02/22/82	2 ##	0.045	0.045	0.08	0.01	0.002	0.049	**	**	**	**
39325	O,P DDD IN TISSUE WET WGT (UG/G)	02/22/82-02/22/82	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	07/15/81-07/15/81	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39329	O,P DDE IN TISSUE, WET WGT(UG/G)	02/22/82-02/22/82	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/15/81-07/15/81	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/15/81-07/15/81	1 ##	45.	45.	45.	45.	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/15/81-07/15/81	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39482	METHOXYCHLOR IN FISH - UG/KG	07/15/81-02/22/82	3 ##	40.	40.	40.	40.	0.	0.	**	**	**	**
39515	PCBS (MG/KG) FISH TISSUE MG/KG	07/15/81-02/22/82	3 ##	0.2	66.8	200.	0.2	13306.68	115.355	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/25/73-11/21/74	2	41.5	41.5	50.	33.	144.5	12.021	**	**	**	**
70305	SALINITY BASED ON CONDUCTIVITY	02/27/74-12/08/75	5	0.	0.28	0.9	0.	0.167	0.409	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/17/77-10/22/86	91 ##	0.025	0.016	0.05	0.005	0.	0.01	0.005	0.005	0.025	0.025
71900	MERCURY, TOTAL (UG/L AS HG)	08/04/70-08/20/86	49 ##	0.25	0.384	4.9	0.1	0.572	0.756	0.1	0.1	0.25	0.5
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/15/81-11/29/84	4	0.08	0.12	0.25	0.07	0.008	0.087	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	02/22/82-02/22/82	2 ##	0.055	0.055	0.1	0.01	0.004	0.064	**	**	**	**
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	02/22/82-02/22/82	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	02/22/82-02/22/82	2 ##	0.6	0.6	1.	0.2	0.32	0.566	**	**	**	**
71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	02/22/82-02/22/82	2	11.9	11.9	18.	5.8	74.42	8.627	**	**	**	**
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	02/22/82-02/22/82	2 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	02/22/82-02/22/82	2 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	03/06/84-03/06/84	1	50.	50.	50.	50.	0.	0.	**	**	**	**
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	11/24/75-09/23/86	120	5838.5	5071.092	10649.	0.	8298015.664	2880.628	0.	3075.	7335.25	8130.
81647	REFERENCE POINT READING(LINEAR FEET)	10/17/78-10/17/78	1	38.6	38.6	38.6	38.6	0.	0.	**	**	**	**
81656	MAGNESIUM IN FISH TISSUE WET WEIGHT MG/KG	02/22/82-02/22/82	2	220.	220.	230.	210.	200.	14.142	**	**	**	**
81666	ALUMINUM IN FISH TISSUE WET WEIGHT MG/KG	02/22/82-02/22/82	2	33.85	33.85	62.	5.7	1584.845	39.81	**	**	**	**

** - Less 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: GRSM0055

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	110	1	0.01	52	0	0.00	58	1	0.02						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	154	1	0.01	70	1	0.01	84	0	0.00						
00400	PH	Other-Hi Lim.	9.	140	0	0.00	63	0	0.00	77	0	0.00						
		Other-Lo Lim.	6.5	140	64	0.46	63	25	0.40	77	39	0.51						
00403	PH, LAB	Other-Hi Lim.	9.	83	0	0.00	42	0	0.00	41	0	0.00						
		Other-Lo Lim.	6.5	83	25	0.30	42	7	0.17	41	18	0.44						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	113	1	0.01	53	0	0.00	60	1	0.02						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	6	0	0.00	3	0	0.00	3	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	6	0	0.00	3	0	0.00	3	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	2	1.00	1	1	1.00	1	1	1.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	41	0	0.00	20	0	0.00	21	0	0.00						
		Drinking Water	50.	41	1	0.02	20	1	0.05	21	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: GRSM0055

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00				1	0	0.00						
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00				1	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2 &	1	0.50	2	1	0.50									
		Drinking Water	5.	2 &	1	0.50	2	1	0.50									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	53	0	0.00	28	0	0.00	25	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	1300.	2	0	0.00	1	0	0.00	1	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	23 &	7	0.30	10	2	0.20	13	5	0.38						
		Drinking Water	1300.	54	1	0.02	28	0	0.00	26	1	0.04						
01051	LEAD, TOTAL	Fresh Acute	82.	53	4	0.08	27	3	0.11	26	1	0.04						
		Drinking Water	5.	4 &	4	1.00	3	3	1.00	1	1	1.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	33	0	0.00	19	0	0.00	14	0	0.00						
		Drinking Water	100.	33	1	0.03	19	0	0.00	14	1	0.07						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	5	5	1.00	1	1	1.00	4	4	1.00						
		Drinking Water	50.	5	2	0.40	1	1	1.00	4	1	0.25						
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	53	2	0.04	27	0	0.00	26	2	0.08						
31508	COLIFORM, TOTAL, MPN, COMP. TEST, TUBE C	Other-Hi Lim.	1000.	12	0	0.00	3	0	0.00	9	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	145	2	0.01	69	1	0.01	76	1	0.01						
71900	MERCURY, TOTAL	Fresh Acute	2.4	49	1	0.02	22	1	0.05	27	0	0.00						
		Drinking Water	2.	49	2	0.04	22	2	0.09	27	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 1968 - Station GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-10/22/86	2	13.	13.	14.	12.	2.	1.414	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/20/68-10/22/86	2	8.7	8.7	9.8	7.6	2.42	1.556	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-09/06/85	2	82.	82.	91.	73.	162.	12.728	**	**	**	**
00400	PH (STANDARD UNITS)	06/20/68-10/22/86	2	6.15	6.15	6.2	6.1	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-10/22/86	2	6.147	6.147	6.2	6.1	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-10/22/86	2	0.713	0.713	0.794	0.631	0.013	0.116	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-10/22/86	2	6.	6.	6.	6.	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-10/22/86	2 ##	0.1	0.1	0.1	0.1	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

Annual Analysis for 1969 - Station GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-10/22/86	2	15.5	15.5	21.	10.	60.5	7.778	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/20/68-10/22/86	2	6.3	6.3	9.3	3.3	18.	4.243	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-09/06/85	1	37.	37.	37.	37.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/20/68-10/22/86	2	6.2	6.2	6.4	6.	0.08	0.283	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-10/22/86	2	6.155	6.155	6.4	6.	0.084	0.29	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-10/22/86	2	0.699	0.699	1.	0.398	0.181	0.426	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-10/22/86	2	6.5	6.5	9.	4.	12.5	3.536	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-10/22/86	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	1	400.	400.	400.	400.	0.	0.	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	1	2.602	2.602	2.602	2.602	0.	0.	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			400.								

** - Less 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 GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-10/22/86	3	14.	13.667	14.	13.	0.333	0.577	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/20/68-10/22/86	3	9.7	9.233	10.	8.	1.163	1.079	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-09/06/85	3	92.	88.667	96.	78.	89.333	9.452	**	**	**	**
00400	PH (STANDARD UNITS)	06/20/68-10/22/86	3	6.1	5.6	7.1	3.6	3.25	1.803	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-10/22/86	3	6.1	4.076	7.1	3.6	6.736	2.595	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-10/22/86	3	0.794	84.021	251.189	0.079	20958.943	144.772	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-10/22/86	2	4.	4.	5.	3.	2.	1.414	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-10/22/86	3 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	1	500.	500.	500.	500.	0.	0.	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	1	2.699	2.699	2.699	2.699	0.	0.	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			500.								

** - Less 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 GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-10/22/86	3	12.	12.667	15.	11.	4.333	2.082	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/20/68-10/22/86	3	9.3	9.333	10.7	8.	1.823	1.35	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-09/06/85	3	84.	87.333	99.	79.	108.333	10.408	**	**	**	**
00400	PH (STANDARD UNITS)	06/20/68-10/22/86	3	6.3	6.367	6.6	6.2	0.043	0.208	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-10/22/86	3	6.3	6.336	6.6	6.2	0.045	0.211	**	**	**	**

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Annual Analysis for 1971 - Station GRSM0055

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	06/20/68-10/22/86	3	0.501	0.461	0.631	0.251	0.037	0.193	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-10/22/86	3	6.	5.333	6.	4.	1.333	1.155	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-10/22/86	3 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	2	15.	15.	20.	10.	50.	7.071	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	2	1.151	1.151	1.301	1.	0.045	0.213	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			14.142								

** - Less 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 GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-10/22/86	3	14.	15.	17.	14.	3.	1.732	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/26/73-08/20/86	2	7.35	7.35	9.7	5.	11.045	3.323	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/20/68-10/22/86	3	7.4	7.467	8.7	6.3	1.443	1.201	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-09/06/85	2	74.5	74.5	84.	65.	180.5	13.435	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-08/20/86	2	0.45	0.45	0.6	0.3	0.045	0.212	**	**	**	**
00400	PH (STANDARD UNITS)	06/20/68-10/22/86	3	5.9	6.1	6.7	5.7	0.28	0.529	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-10/22/86	3	5.9	5.939	6.7	5.7	0.319	0.565	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-10/22/86	3	1.259	1.151	1.995	0.2	0.815	0.903	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-10/22/86	3	5.	4.667	5.	4.	0.333	0.577	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-10/22/86	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	3	10.	8.333	10.	5.	8.333	2.887	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	3	1.	0.9	1.	0.699	0.03	0.174	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			7.937								

** - Less 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 1974 - Station GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-10/22/86	9	15.	14.5	18.	9.	7.25	2.693	9.	13.	16.5	18.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/26/73-08/20/86	8	3.8	4.762	14.	1.8	15.78	3.972	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/20/68-10/22/86	9	8.8	8.456	10.4	4.7	3.46	1.86	4.7	7.15	10.1	10.4
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-09/06/85	7	85.	79.143	102.	49.	306.143	17.497	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-08/20/86	7	0.6	0.8	1.7	0.3	0.253	0.503	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	04/02/74-04/16/81	4 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/20/68-10/22/86	8	6.35	6.388	6.7	6.1	0.041	0.203	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-10/22/86	8	6.347	6.348	6.7	6.1	0.043	0.208	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-10/22/86	8	0.45	0.449	0.794	0.2	0.04	0.2	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-10/22/86	8	6.	6.	8.	4.	1.714	1.309	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-10/22/86	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-10/22/86	1	0.44	0.44	0.44	0.44	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-10/22/86	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	7	10.	18.571	60.	5.	405.952	20.148	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	7	1.	1.093	1.778	0.699	0.159	0.399	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			12.397								

** - Less 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 GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-10/22/86	9	12.	11.556	18.	7.	12.778	3.575	7.	8.5	14.	18.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/26/73-08/20/86	6	4.65	13.212	57.	0.07	473.963	21.771	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/20/68-10/22/86	9	10.3	10.1	13.8	6.8	3.985	1.996	6.8	8.75	11.1	13.8
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-09/06/85	9	93.	91.222	113.	72.	143.444	11.977	72.	82.	96.5	113.
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-08/20/86	9	0.4	0.417	0.8	0.05	0.054	0.232	0.05	0.25	0.6	0.8
00340	COD, .25N K2CR2O7 MG/L	04/02/74-04/16/81	9 ##	12.5	12.5	12.5	12.5	0.	0.	12.5	12.5	12.5	12.5
00400	PH (STANDARD UNITS)	06/20/68-10/22/86	9	6.3	6.311	6.8	5.8	0.134	0.366	5.8	6.	6.7	6.8
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-10/22/86	9	6.3	6.187	6.8	5.8	0.151	0.388	5.8	6.	6.7	6.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-10/22/86	9	0.501	0.65	1.585	0.158	0.233	0.483	0.158	0.205	1.	1.585
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-10/22/86	9	8.	9.556	14.	7.	7.778	2.789	7.	7.	12.5	14.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-10/22/86	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-10/22/86	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-10/22/86	1	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-10/22/86	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	9	10.	14.444	50.	5.	215.278	14.672	5.	5.	20.	50.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	9	1.	1.011	1.699	0.699	0.129	0.359	0.699	0.699	1.301	1.699
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			10.251								
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	11/24/75-09/23/86	2	6378.	6378.	6514.	6242.	36992.	192.333	**	**	**	**

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Annual Analysis for 1976 - Station GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-10/22/86	10	12.	11.5	18.	7.	14.056	3.749	7.	7.	14.25	17.7
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/26/73-08/20/86	10	5.5	6.8	13.	3.	13.289	3.645	3.	3.75	10.25	12.8
00300p	OXYGEN, DISSOLVED MG/L	06/20/68-10/22/86	9	9.6	9.989	12.	7.6	2.739	1.655	7.6	8.55	11.65	12.
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-09/06/85	8	90.5	89.375	109.	71.	197.696	14.06	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-08/20/86	10	0.5	0.57	0.9	0.4	0.029	0.17	0.4	0.4	0.7	0.88
00340	COD, .25N K2CR2O7 MG/L	04/02/74-04/16/81	10 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
00400	PH (STANDARD UNITS)	06/20/68-10/22/86	10	6.65	6.6	6.8	6.3	0.024	0.156	6.31	6.475	6.7	6.79
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-10/22/86	10	6.647	6.573	6.8	6.3	0.025	0.159	6.31	6.475	6.7	6.79
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-10/22/86	10	0.225	0.267	0.501	0.158	0.012	0.108	0.163	0.2	0.337	0.491
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-10/22/86	10	7.	8.	17.	6.	10.667	3.266	6.	6.	8.	16.1
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-10/22/86	2 ##	0.063	0.063	0.1	0.025	0.003	0.053	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-10/22/86	2	0.25	0.25	0.3	0.2	0.005	0.071	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-10/22/86	2	0.17	0.17	0.18	0.16	0.	0.014	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-10/22/86	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	10 ##	5.	6.	10.	5.	4.444	2.108	5.	5.	6.25	10.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	10 ##	0.699	0.759	1.	0.699	0.016	0.127	0.699	0.699	0.774	1.
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.743								
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	11/24/75-09/23/86	10	6712.	5528.9	8130.	0.	9330134.544	3054.527	89.5	3433.75	8064.	8124.9

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Annual Analysis for 1977 - Station GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-10/22/86	11	14.	12.818	17.	4.	16.364	4.045	5.	9.	16.	17.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/26/73-08/20/86	10	5.45	5.21	6.6	2.4	1.725	1.314	2.59	4.45	6.375	6.6
00300p	OXYGEN, DISSOLVED MG/L	06/20/68-10/22/86	11	9.3	9.6	12.1	6.6	3.224	1.796	6.84	8.5	11.6	12.06
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-09/06/85	11	89.	89.273	109.	65.	182.818	13.521	66.6	80.	103.	107.8
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-08/20/86	11	0.6	0.523	1.1	0.05	0.085	0.291	0.1	0.3	0.7	1.04
00340	COD, .25N K2CR2O7 MG/L	04/02/74-04/16/81	11 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
00400	PH (STANDARD UNITS)	06/20/68-10/22/86	11	6.5	6.545	6.9	6.3	0.031	0.175	6.32	6.4	6.7	6.86

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Annual Analysis for 1977 - Station GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-10/22/86	11	6.5	6.516	6.9	6.3	0.032	0.178	6.32	6.4	6.7	6.86
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-10/22/86	11	0.316	0.305	0.501	0.126	0.012	0.112	0.141	0.2	0.398	0.481
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-10/22/86	11	6.	6.	9.	3.	2.6	1.612	3.4	5.	7.	8.6
00500	RESIDUE, TOTAL (MG/L)	02/15/77-10/22/86	8	27.	31.125	67.	13.	258.696	16.084	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/15/77-10/22/86	8	2.	1.938	4.	0.5	2.103	1.45	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-10/22/86	10 ##	0.025	0.035	0.07	0.025	0.	0.016	0.025	0.025	0.05	0.068
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-10/22/86	10 ##	0.075	0.095	0.2	0.05	0.004	0.06	0.05	0.05	0.125	0.2
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-10/22/86	10	0.185	0.183	0.33	0.12	0.004	0.062	0.12	0.128	0.203	0.318
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-10/22/86	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	11 ##	5.	9.545	30.	5.	67.273	8.202	5.	5.	10.	28.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	11 ##	0.699	0.879	1.477	0.699	0.079	0.281	0.699	0.699	1.	1.442
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			7.571								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/17/77-10/22/86	7 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	11/24/75-09/23/86	11	7350.	6312.364	8181.	0.	6341601.455	2518.254	865.2	4911.	8130.	8181.

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Annual Analysis for 1978 - Station GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-10/22/86	11	10.	11.909	19.	5.	23.891	4.888	5.4	8.	17.	18.6
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/26/73-08/20/86	7	3.8	3.729	5.8	1.5	1.896	1.377	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/20/68-10/22/86	11	10.1	10.145	12.1	7.4	2.959	1.72	7.46	8.5	11.9	12.08
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-09/06/85	2	99.	99.	104.	94.	50.	7.071	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-08/20/86	11	0.5	0.527	1.	0.1	0.118	0.344	0.1	0.2	1.	1.
00340	COD, .25N K2CR2O7 MG/L	04/02/74-04/16/81	11 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
00400	PH (STANDARD UNITS)	06/20/68-10/22/86	11	6.7	6.673	6.9	6.5	0.012	0.11	6.52	6.6	6.7	6.88
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-10/22/86	11	6.7	6.661	6.9	6.5	0.012	0.111	6.52	6.6	6.7	6.88
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-10/22/86	11	0.2	0.218	0.316	0.126	0.003	0.052	0.132	0.2	0.251	0.303
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-10/22/86	11	7.	6.545	8.	5.	0.673	0.82	5.2	6.	7.	7.8
00500	RESIDUE, TOTAL (MG/L)	02/15/77-10/22/86	5	23.	24.8	39.	12.	110.2	10.498	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/15/77-10/22/86	5	2.	2.	3.	1.	0.5	0.707	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-10/22/86	10 ##	0.025	0.03	0.05	0.025	0.	0.011	0.025	0.025	0.031	0.05
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-10/22/86	11	0.1	0.095	0.2	0.05	0.002	0.042	0.05	0.05	0.1	0.18
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-10/22/86	11	0.17	0.167	0.21	0.13	0.	0.019	0.136	0.16	0.17	0.204
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-10/22/86	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	11 ##	5.	25.455	130.	5.	1832.273	42.805	5.	5.	10.	122.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	11 ##	0.699	1.024	2.114	0.699	0.269	0.519	0.699	0.699	1.	2.082
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			10.564								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/17/77-10/22/86	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	11/24/75-09/23/86	10	784.5	2047.6	8130.	0.	8249752.711	2872.238	0.	0.	3667.25	7919.

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Annual Analysis for 1979 - Station GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-10/22/86	10	11.5	11.5	17.	5.	17.167	4.143	5.1	8.25	15.25	16.9
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/26/73-08/20/86	1	3.8	3.8	3.8	3.8	0.	0.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/20/68-10/22/86	10	9.2	8.84	10.6	6.8	1.727	1.314	6.85	7.375	9.85	10.57
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-08/20/86	11	0.3	0.418	1.5	0.2	0.138	0.371	0.2	0.2	0.4	1.3
00340	COD, .25N K2CR2O7 MG/L	04/02/74-04/16/81	11 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
00400	PH (STANDARD UNITS)	06/20/68-10/22/86	9	6.5	6.544	6.8	6.4	0.015	0.124	6.4	6.45	6.6	6.8
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-10/22/86	9	6.5	6.53	6.8	6.4	0.016	0.125	6.4	6.45	6.6	6.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-10/22/86	9	0.316	0.295	0.398	0.158	0.006	0.077	0.158	0.251	0.357	0.398

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Annual Analysis for 1979 - Station GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	11/15/79-10/22/86	2	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/15/79-10/22/86	2	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/15/79-10/22/86	2	0.251	0.251	0.251	0.251	0.	0.	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-10/22/86	11	6.	6.182	7.	5.	0.564	0.751	5.	6.	7.	7.
00500	RESIDUE, TOTAL (MG/L)	02/15/77-10/22/86	4	14.5	21.	44.	11.	242.	15.556	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/15/77-10/22/86	4	2.5	2.375	4.	0.5	3.563	1.887	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-10/22/86	11 ##	0.025	0.03	0.08	0.025	0.	0.017	0.025	0.025	0.025	0.069
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-10/22/86	11 ##	0.05	0.091	0.2	0.05	0.003	0.058	0.05	0.05	0.1	0.2
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-10/22/86	11	0.14	1.574	16.	0.09	22.894	4.785	0.09	0.1	0.17	12.836
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-10/22/86	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	10 ##	5.	9.	20.	5.	37.778	6.146	5.	5.	12.5	20.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	10 ##	0.699	0.88	1.301	0.699	0.064	0.254	0.699	0.699	1.075	1.301
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			7.579								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/17/77-10/22/86	8 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	11/24/75-09/23/86	11	7213.	6744.727	10649.	842.	7014343.218	2648.461	1691.4	5117.	8048.	10506.

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Annual Analysis for 1980 - Station GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-10/22/86	12	12.	11.667	16.	8.	8.242	2.871	8.	9.	13.75	16.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/26/73-08/20/86	10	2.65	2.87	5.5	0.8	1.816	1.347	0.9	1.95	3.925	5.35
00300p	OXYGEN, DISSOLVED MG/L	06/20/68-10/22/86	12	8.8	8.958	11.4	7.	1.77	1.33	7.21	7.8	9.875	11.22
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-08/20/86	12	0.5	0.467	0.9	0.2	0.032	0.178	0.23	0.325	0.5	0.81
00340	COD, .25N K2CR2O7 MG/L	04/02/74-04/16/81	12 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
00400	PH (STANDARD UNITS)	06/20/68-10/22/86	4	6.475	6.513	6.8	6.3	0.054	0.232	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-10/22/86	4	6.457	6.469	6.8	6.3	0.056	0.238	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-10/22/86	4	0.349	0.339	0.501	0.158	0.026	0.161	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/15/79-10/22/86	12	6.6	6.608	6.8	6.5	0.008	0.09	6.5	6.525	6.675	6.77
00403	CONVERTED PH, LAB, STANDARD UNITS	11/15/79-10/22/86	12	6.6	6.6	6.8	6.5	0.008	0.09	6.5	6.525	6.675	6.77
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/15/79-10/22/86	12	0.251	0.251	0.316	0.158	0.002	0.049	0.171	0.212	0.3	0.316
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-10/22/86	12	7.	7.25	11.	5.	2.568	1.603	5.3	6.	8.	10.4
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/22/86	4	7.	7.25	9.	6.	1.583	1.258	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	02/15/77-10/22/86	7	34.	29.286	37.	8.	102.571	10.128	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	10/31/80-01/16/85	3	16.	16.667	18.	16.	1.333	1.155	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	10/31/80-01/16/85	3	16.	15.333	21.	9.	36.333	6.028	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/15/77-10/22/86	7	4.	3.643	7.	0.5	5.06	2.249	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	10/31/80-01/16/85	3 ##	0.5	1.333	3.	0.5	2.083	1.443	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	10/31/80-01/16/85	3	4.	3.667	5.	2.	2.333	1.528	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-10/22/86	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-10/22/86	11	0.1	0.1	0.2	0.05	0.003	0.055	0.05	0.05	0.1	0.2
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-10/22/86	11	0.14	0.176	0.5	0.12	0.012	0.109	0.122	0.13	0.17	0.434
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-10/22/86	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	12 ##	7.5	13.333	40.	5.	137.879	11.742	5.	5.	20.	37.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	12 ##	0.849	0.99	1.602	0.699	0.119	0.346	0.699	0.699	1.301	1.565
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			9.763								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/17/77-10/22/86	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	11/24/75-09/23/86	11	6595.	6643.455	8181.	4101.	2087805.073	1444.924	4235.2	5368.	8079.	8172.6

** - 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 1981 - Station GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-10/22/86	12	11.	11.5	17.	6.	14.818	3.849	6.3	7.5	15.	17.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/26/73-08/20/86	12	2.5	3.167	8.	0.5	6.652	2.579	0.5	1.	5.5	7.7
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-08/20/86	4	23.	23.	25.	21.	3.333	1.826	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/20/68-10/22/86	12	9.9	9.5	11.2	7.	2.129	1.459	7.09	7.95	10.75	11.11
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-09/06/85	1	94.	94.	94.	94.	0.	0.	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-08/20/86	12	0.5	0.517	0.8	0.2	0.038	0.195	0.23	0.325	0.675	0.8
00340	COD, .25N K2CR2O7 MG/L	04/02/74-04/16/81	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/20/68-10/22/86	9	6.5	6.5	7.1	5.8	0.12	0.346	5.8	6.35	6.65	7.1
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-10/22/86	9	6.5	6.363	7.1	5.8	0.141	0.375	5.8	6.35	6.65	7.1
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-10/22/86	9	0.316	0.433	1.585	0.079	0.201	0.448	0.079	0.225	0.45	1.585
00403	PH, LAB, STANDARD UNITS SU	11/15/79-10/22/86	12	6.6	6.583	6.7	6.4	0.007	0.083	6.43	6.525	6.6	6.7
00403	CONVERTED PH, LAB, STANDARD UNITS	11/15/79-10/22/86	12	6.6	6.576	6.7	6.4	0.007	0.084	6.43	6.525	6.6	6.7
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/15/79-10/22/86	12	0.251	0.266	0.398	0.2	0.003	0.055	0.2	0.251	0.3	0.374
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-10/22/86	12	7.	7.083	9.	6.	0.447	0.669	6.3	7.	7.	8.4
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/22/86	9	8.	7.	8.	4.	2.25	1.5	4.	6.	8.	8.
00500	RESIDUE, TOTAL (MG/L)	02/15/77-10/22/86	10	34.5	36.9	64.	25.	126.1	11.229	25.1	30.5	39.75	62.1
00505	RESIDUE, TOTAL VOLATILE (MG/L)	10/31/80-01/16/85	9	20.	17.611	31.	0.5	94.611	9.727	0.5	10.	25.5	31.
00510	RESIDUE, TOTAL FIXED (MG/L)	10/31/80-01/16/85	9	18.	19.222	33.	2.	91.694	9.576	2.	14.	27.5	33.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/15/77-10/22/86	10	3.5	4.65	11.	0.5	15.114	3.888	0.55	1.75	9.25	10.9
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	10/31/80-01/16/85	9	2.	2.	5.	0.5	2.438	1.561	0.5	0.75	3.	5.
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	10/31/80-01/16/85	9	2.	2.167	6.	0.5	3.563	1.887	0.5	0.5	3.5	6.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-10/22/86	10 ##	0.025	0.037	0.1	0.025	0.001	0.026	0.025	0.025	0.036	0.097
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-10/22/86	10	0.1	0.125	0.2	0.05	0.003	0.054	0.055	0.1	0.2	0.2
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-10/22/86	10	0.17	0.176	0.21	0.11	0.001	0.03	0.115	0.168	0.203	0.21
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-10/22/86	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	12 ##	5.	11.667	50.	5.	196.97	14.035	5.	5.	10.	44.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	12 ##	0.699	0.897	1.699	0.699	0.12	0.346	0.699	0.699	1.	1.632
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			7.894								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/17/77-10/22/86	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	11/24/75-09/23/86	11	1713.	2872.455	7566.	0.	9780987.073	3127.457	0.	0.	5877.	7465.

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Annual Analysis for 1982 - Station GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-10/22/86	12	13.	11.917	18.	5.	14.992	3.872	5.3	9.25	14.	17.4
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/26/73-08/20/86	12	2.	2.558	10.	0.5	7.386	2.718	0.5	0.625	3.	8.56
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-08/20/86	12	23.	26.167	46.	15.	93.606	9.675	16.2	19.5	35.5	43.9
00300p	OXYGEN, DISSOLVED MG/L	06/20/68-10/22/86	12	9.65	9.492	12.1	6.7	2.294	1.514	6.97	8.4	10.575	11.65
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-09/06/85	10	84.5	86.2	101.	69.	87.511	9.355	70.2	81.	93.25	100.6
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-08/20/86	12	0.4	0.45	1.1	0.2	0.068	0.261	0.2	0.225	0.575	0.98
00400	PH (STANDARD UNITS)	06/20/68-10/22/86	12	6.55	6.483	6.8	5.9	0.054	0.233	6.02	6.4	6.6	6.77
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-10/22/86	12	6.547	6.413	6.8	5.9	0.06	0.244	6.02	6.4	6.6	6.77
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-10/22/86	12	0.284	0.386	1.259	0.158	0.085	0.292	0.171	0.251	0.398	1.032
00403	PH, LAB, STANDARD UNITS SU	11/15/79-10/22/86	12	6.6	6.542	6.7	6.3	0.023	0.151	6.33	6.4	6.7	6.7
00403	CONVERTED PH, LAB, STANDARD UNITS	11/15/79-10/22/86	12	6.6	6.517	6.7	6.3	0.023	0.153	6.33	6.4	6.7	6.7
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/15/79-10/22/86	12	0.251	0.304	0.501	0.2	0.011	0.107	0.2	0.2	0.398	0.47
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-10/22/86	12	7.	6.917	9.	5.	1.174	1.084	5.3	6.	7.75	8.7
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/22/86	12	5.5	5.833	8.	4.	1.606	1.267	4.3	5.	6.75	8.
00500	RESIDUE, TOTAL (MG/L)	02/15/77-10/22/86	12	25.5	27.5	41.	16.	65.727	8.107	17.2	20.25	35.25	40.1
00505	RESIDUE, TOTAL VOLATILE (MG/L)	10/31/80-01/16/85	11	12.	11.227	24.	0.5	69.468	8.335	1.	3.	21.	23.4
00510	RESIDUE, TOTAL FIXED (MG/L)	10/31/80-01/16/85	11	16.	15.091	20.	7.	13.091	3.618	8.	13.	18.	19.6
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/15/77-10/22/86	12	2.5	3.417	16.	0.5	18.72	4.327	0.5	0.5	4.75	12.7
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	10/31/80-01/16/85	11 ##	0.5	1.636	5.	0.5	2.705	1.645	0.5	0.5	3.	4.8
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	10/31/80-01/16/85	11 ##	0.5	1.	3.	0.5	0.65	0.806	0.5	0.5	1.	2.8
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-10/22/86	12 ##	0.025	0.023	0.03	0.005	0.	0.006	0.01	0.025	0.025	0.029

** - 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 1982 - Station GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-10/22/86	12	0.1	0.138	0.5	0.05	0.017	0.132	0.05	0.063	0.1	0.44
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-10/22/86	12	0.15	0.15	0.18	0.09	0.	0.022	0.105	0.143	0.16	0.177
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-10/22/86	12 ##	0.025	0.023	0.025	0.01	0.	0.005	0.013	0.021	0.025	0.025
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	12 ##	5.	10.417	30.	5.	88.447	9.405	5.	5.	10.	30.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	12 ##	0.699	0.904	1.477	0.699	0.089	0.298	0.699	0.699	1.	1.477
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			8.015								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/17/77-10/22/86	10 ##	0.025	0.023	0.025	0.005	0.	0.006	0.007	0.025	0.025	0.025
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	11/24/75-09/23/86	12	6553.	6184.167	10242.	2447.	6597528.515	2568.565	2463.2	4335.75	7764.5	10164.6

** - 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 1983 - Station GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-10/22/86	12	12.	11.958	17.	7.	11.475	3.388	7.15	9.25	15.25	17.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/26/73-08/20/86	12	1.65	3.275	19.	0.5	25.566	5.056	0.65	1.125	2.675	14.62
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-08/20/86	12	25.	28.167	40.	21.	47.788	6.913	21.6	23.25	35.	40.
00300p	OXYGEN, DISSOLVED MG/L	06/20/68-10/22/86	12	9.85	9.308	10.9	7.	1.519	1.232	7.27	8.1	10.175	10.81
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-09/06/85	12	83.5	85.167	98.	72.	53.788	7.334	74.1	79.75	91.25	96.8
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-08/20/86	12	0.3	0.333	0.7	0.1	0.033	0.183	0.1	0.225	0.45	0.67
00400	PH (STANDARD UNITS)	06/20/68-10/22/86	12	6.7	6.6	6.9	6.	0.08	0.283	6.03	6.525	6.775	6.9
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-10/22/86	12	6.7	6.497	6.9	6.	0.092	0.303	6.03	6.525	6.775	6.9
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-10/22/86	12	0.2	0.318	1.	0.126	0.078	0.279	0.126	0.169	0.3	0.938
00403	PH, LAB, STANDARD UNITS SU	11/15/79-10/22/86	12	6.6	6.608	6.8	6.4	0.014	0.116	6.43	6.5	6.7	6.77
00403	CONVERTED PH, LAB, STANDARD UNITS	11/15/79-10/22/86	12	6.6	6.594	6.8	6.4	0.014	0.117	6.43	6.5	6.7	6.77
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/15/79-10/22/86	12	0.251	0.255	0.398	0.158	0.005	0.07	0.171	0.2	0.316	0.374
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-10/22/86	12	7.	6.5	9.	2.	3.182	1.784	2.9	6.	7.75	8.7
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/22/86	12	6.	6.167	10.	4.	2.697	1.642	4.3	5.	7.	9.1
00500	RESIDUE, TOTAL (MG/L)	02/15/77-10/22/86	12	29.5	27.25	40.	16.	70.932	8.422	16.	19.	31.75	40.
00505	RESIDUE, TOTAL VOLATILE (MG/L)	10/31/80-01/16/85	12	8.	9.958	27.	0.5	58.294	7.635	0.95	4.25	15.5	24.
00510	RESIDUE, TOTAL FIXED (MG/L)	10/31/80-01/16/85	12	17.5	17.333	24.	10.	25.333	5.033	10.	13.25	21.75	24.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/15/77-10/22/86	12	2.	2.5	6.	0.5	4.364	2.089	0.5	0.5	4.	6.
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	10/31/80-01/16/85	12	1.5	2.	5.	0.5	2.636	1.624	0.5	0.5	3.75	4.7
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	10/31/80-01/16/85	12 ##	0.5	0.875	4.	0.5	1.006	1.003	0.5	0.5	0.875	3.1
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-10/22/86	12	0.035	0.042	0.12	0.01	0.001	0.032	0.01	0.02	0.06	0.105
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-10/22/86	12 ##	0.075	0.092	0.2	0.05	0.003	0.056	0.05	0.05	0.1	0.2
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-10/22/86	12	0.15	0.148	0.16	0.11	0.	0.014	0.119	0.14	0.16	0.16
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-10/22/86	12	0.015	0.016	0.03	0.01	0.	0.007	0.01	0.01	0.02	0.027
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	12 ##	5.	14.583	110.	5.	906.629	30.11	5.	5.	8.75	80.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	12 ##	0.699	0.861	2.041	0.699	0.152	0.389	0.699	0.699	0.925	1.729
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			7.261								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/17/77-10/22/86	11 ##	0.005	0.01	0.05	0.005	0.	0.013	0.005	0.005	0.01	0.042
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	11/24/75-09/23/86	11	5839.	5328.364	8130.	0.	7353800.055	2711.789	255.6	3785.	7919.	8102.6

** - 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 1984 - Station GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-10/22/86	12	10.	10.917	19.	5.	19.72	4.441	5.3	8.	13.75	18.7
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/26/73-08/20/86	12	1.95	2.442	10.	0.5	6.088	2.467	0.65	1.325	2.3	7.9
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-08/20/86	11	26.	26.	37.	21.	18.2	4.266	21.2	23.	27.	35.2
00300p	OXYGEN, DISSOLVED MG/L	06/20/68-10/22/86	12	9.8	9.675	11.9	6.8	3.022	1.738	6.8	8.5	11.35	11.84
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-09/06/85	6	91.	91.5	97.	87.	14.3	3.782	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-08/20/86	12	0.4	0.367	0.6	0.1	0.024	0.156	0.13	0.225	0.475	0.6

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Annual Analysis for 1984 - Station GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	06/20/68-10/22/86	10	6.65	6.63	7.	6.1	0.082	0.287	6.12	6.45	6.9	6.99
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-10/22/86	10	6.647	6.539	7.	6.1	0.091	0.302	6.12	6.45	6.9	6.99
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-10/22/86	10	0.225	0.289	0.794	0.1	0.046	0.215	0.103	0.126	0.362	0.765
00403	PH, LAB, STANDARD UNITS SU	11/15/79-10/22/86	12	6.7	6.633	6.8	6.4	0.019	0.137	6.4	6.525	6.7	6.8
00403	CONVERTED PH, LAB, STANDARD UNITS	11/15/79-10/22/86	12	6.7	6.612	6.8	6.4	0.019	0.139	6.4	6.525	6.7	6.8
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/15/79-10/22/86	12	0.2	0.244	0.398	0.158	0.007	0.084	0.158	0.2	0.3	0.398
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-10/22/86	12	7.	6.75	8.	5.	0.75	0.866	5.3	6.	7.	8.
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/22/86	10	6.	6.	8.	5.	0.889	0.943	5.	5.	6.25	7.9
00500	RESIDUE, TOTAL (MG/L)	02/15/77-10/22/86	12	28.5	27.75	38.	14.	54.023	7.35	16.1	21.	32.75	38.
00505	RESIDUE, TOTAL VOLATILE (MG/L)	10/31/80-01/16/85	12	14.	14.333	31.	7.	38.424	6.199	7.3	10.25	16.	27.1
00510	RESIDUE, TOTAL FIXED (MG/L)	10/31/80-01/16/85	12	14.5	13.417	22.	6.	28.083	5.299	6.3	7.75	17.75	21.1
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/15/77-10/22/86	12	2.	2.458	5.	0.5	1.703	1.305	0.65	2.	3.75	4.7
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	10/31/80-01/16/85	12	2.	2.083	5.	0.5	1.856	1.362	0.5	1.	2.75	4.7
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	10/31/80-01/16/85	12 ##	0.5	0.833	4.	0.5	1.015	1.008	0.5	0.5	0.5	3.1
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-10/22/86	12	0.025	0.028	0.06	0.01	0.	0.018	0.01	0.01	0.038	0.06
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-10/22/86	12 ##	0.075	0.108	0.2	0.05	0.005	0.07	0.05	0.05	0.2	0.2
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-10/22/86	12	0.15	0.154	0.21	0.13	0.001	0.025	0.13	0.13	0.17	0.198
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-10/22/86	12	0.01	0.015	0.05	0.01	0.	0.012	0.01	0.01	0.018	0.041
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	12 ##	5.	8.333	30.	5.	51.515	7.177	5.	5.	10.	24.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	12 ##	0.699	0.839	1.477	0.699	0.058	0.242	0.699	0.699	1.	1.334
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			6.904								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/17/77-10/22/86	12 ##	0.005	0.005	0.01	0.005	0.	0.001	0.005	0.005	0.005	0.009
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	11/24/75-09/23/86	10	6962.	6611.9	7692.	4301.	1105565.878	1051.459	4445.8	5851.	7425.25	7670.2

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

Annual Analysis for 1985 - Station GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-10/22/86	12	11.	12.5	20.	8.	15.5	3.937	8.	9.25	15.5	19.4
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/26/73-08/20/86	5	1.7	1.96	4.4	0.5	2.183	1.477	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-08/20/86	12	26.	25.083	28.	15.	11.174	3.343	17.7	25.	26.75	27.7
00300p	OXYGEN, DISSOLVED MG/L	06/20/68-10/22/86	12	9.9	9.467	11.7	6.2	3.013	1.736	6.35	8.1	10.75	11.49
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-09/06/85	6	94.	93.	103.	78.	69.2	8.319	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-08/20/86	4	0.75	0.75	1.2	0.3	0.177	0.42	**	**	**	**
00400	PH (STANDARD UNITS)	06/20/68-10/22/86	12	6.6	6.617	6.9	6.4	0.023	0.153	6.43	6.5	6.675	6.9
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-10/22/86	12	6.6	6.594	6.9	6.4	0.024	0.155	6.43	6.5	6.675	6.9
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-10/22/86	12	0.251	0.255	0.398	0.126	0.006	0.079	0.126	0.212	0.316	0.374
00403	PH, LAB, STANDARD UNITS SU	11/15/79-10/22/86	11	6.6	6.609	6.8	6.4	0.013	0.114	6.42	6.5	6.7	6.78
00403	CONVERTED PH, LAB, STANDARD UNITS	11/15/79-10/22/86	11	6.6	6.595	6.8	6.4	0.013	0.115	6.42	6.5	6.7	6.78
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/15/79-10/22/86	11	0.251	0.254	0.398	0.158	0.005	0.068	0.167	0.2	0.316	0.382
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-10/22/86	11	7.	7.455	9.	6.	0.873	0.934	6.2	7.	8.	9.
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/22/86	11	7.	7.455	9.	6.	0.873	0.934	6.2	7.	8.	9.
00500	RESIDUE, TOTAL (MG/L)	02/15/77-10/22/86	11	27.	28.273	57.	11.	206.418	14.367	11.4	16.	33.	55.2
00505	RESIDUE, TOTAL VOLATILE (MG/L)	10/31/80-01/16/85	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	10/31/80-01/16/85	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/15/77-10/22/86	12	2.	3.	8.	1.	4.	2.	1.	2.	4.	7.1
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	10/31/80-01/16/85	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	10/31/80-01/16/85	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-10/22/86	11	0.03	0.038	0.12	0.01	0.001	0.031	0.01	0.02	0.05	0.106
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-10/22/86	11	0.2	0.141	0.3	0.005	0.009	0.094	0.014	0.05	0.2	0.28
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-10/22/86	11	0.17	0.17	0.2	0.13	0.001	0.025	0.13	0.15	0.19	0.2
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-10/22/86	11	0.01	0.01	0.02	0.005	0.	0.005	0.005	0.005	0.01	0.02
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	10 ##	5.	7.	20.	5.	23.333	4.83	5.	5.	6.25	19.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	10 ##	0.699	0.789	1.301	0.699	0.041	0.203	0.699	0.699	0.774	1.271
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			6.156								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/17/77-10/22/86	11 ##	0.005	0.005	0.01	0.005	0.	0.002	0.005	0.005	0.005	0.009

** - Less 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 GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	11/24/75-09/23/86	12	4573.5	4158.333	6713.	0.	4480128.97	2116.632	445.5	2746.	6072.	6668.3

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

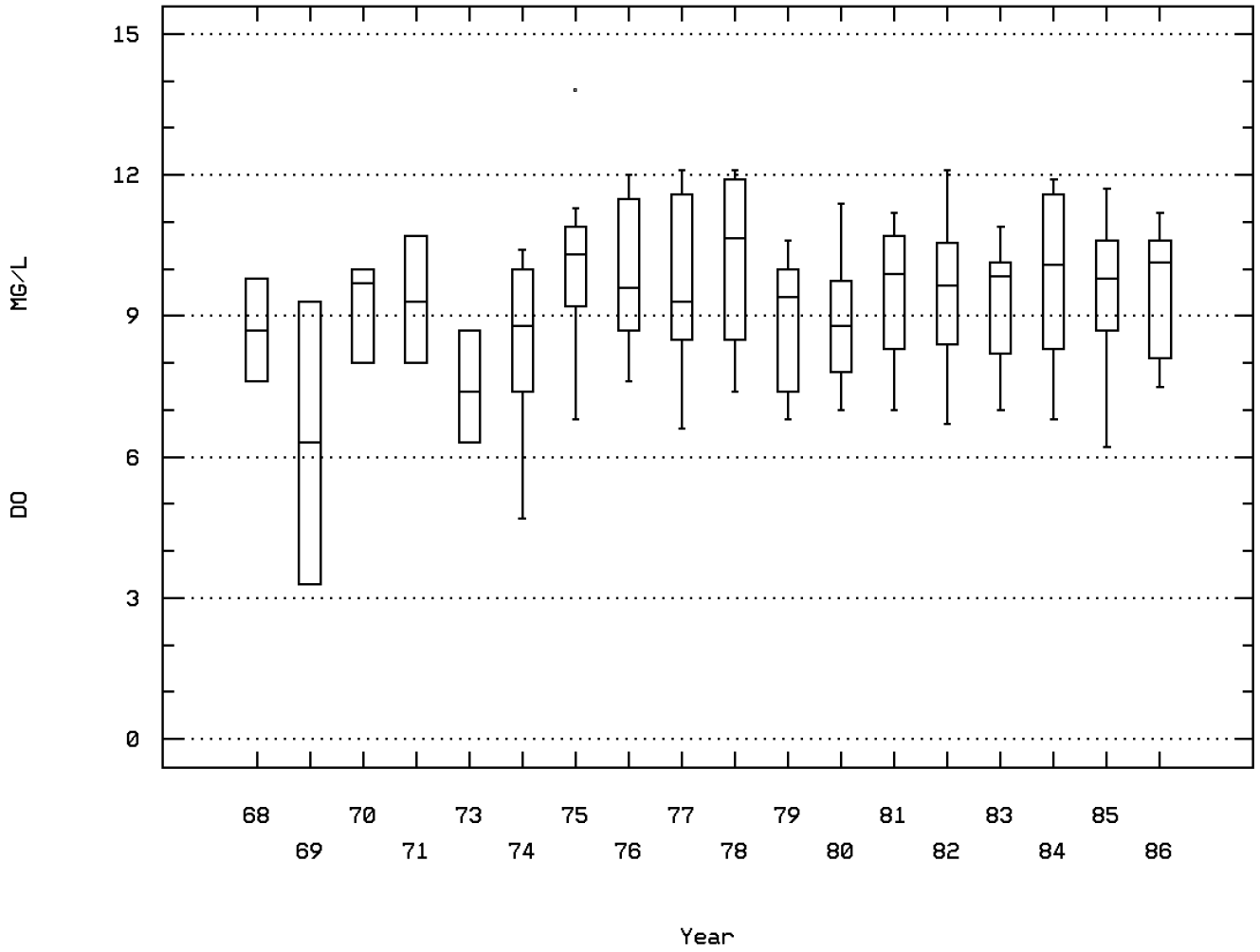
Annual Analysis for 1986 - Station GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-10/22/86	10	11.5	11.1	18.	6.	13.878	3.725	6.1	7.75	13.25	17.6
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/26/73-08/20/86	3 ##	0.5	0.767	1.3	0.5	0.213	0.462	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-08/20/86	7	23.	23.857	28.	22.	6.476	2.545	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/20/68-10/22/86	10	10.15	9.59	11.2	7.5	1.988	1.41	7.51	7.975	10.675	11.17
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-08/20/86	3	0.6	0.5	0.8	0.1	0.13	0.361	**	**	**	**
00400	PH (STANDARD UNITS)	06/20/68-10/22/86	10	6.75	6.75	7.1	6.5	0.049	0.222	6.5	6.5	6.925	7.09
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-10/22/86	10	6.747	6.701	7.1	6.5	0.052	0.228	6.5	6.5	6.925	7.09
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-10/22/86	10	0.179	0.199	0.316	0.079	0.009	0.095	0.081	0.119	0.316	0.316
00403	PH, LAB, STANDARD UNITS SU	11/15/79-10/22/86	10	6.65	6.58	6.8	6.3	0.028	0.169	6.31	6.4	6.7	6.79
00403	CONVERTED PH, LAB, STANDARD UNITS	11/15/79-10/22/86	10	6.647	6.55	6.8	6.3	0.029	0.172	6.31	6.4	6.7	6.79
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/15/79-10/22/86	10	0.225	0.282	0.501	0.158	0.013	0.115	0.163	0.2	0.398	0.491
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-10/22/86	10	7.	7.4	9.	6.	0.711	0.843	6.1	7.	8.	8.9
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/22/86	10	8.	8.2	12.	6.	3.511	1.874	6.	6.75	9.25	11.8
00500	RESIDUE, TOTAL (MG/L)	02/15/77-10/22/86	10	28.	29.3	54.	13.	190.9	13.817	13.1	15.5	40.25	53.3
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/15/77-10/22/86	10	2.	2.15	4.	0.5	1.669	1.292	0.55	1.	3.25	4.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-10/22/86	9	0.01	0.014	0.03	0.01	0.	0.007	0.01	0.01	0.02	0.03
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-10/22/86	9	0.1	0.172	0.6	0.05	0.033	0.18	0.05	0.05	0.25	0.6
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-10/22/86	9	0.19	0.192	0.21	0.17	0.	0.013	0.17	0.185	0.205	0.21
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-10/22/86	9	0.01	0.009	0.02	0.005	0.	0.005	0.005	0.005	0.01	0.02
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	10 ##	5.	5.5	10.	5.	2.5	1.581	5.	5.	5.	9.5
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	10 ##	0.699	0.729	1.	0.699	0.009	0.095	0.699	0.699	0.699	0.97
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.359								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/17/77-10/22/86	9 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	11/24/75-09/23/86	9	3392.	2540.667	6297.	0.	4950062.75	2224.874	0.	0.	3909.	6297.

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Station: GRSM0055 Parameter Code: 00300

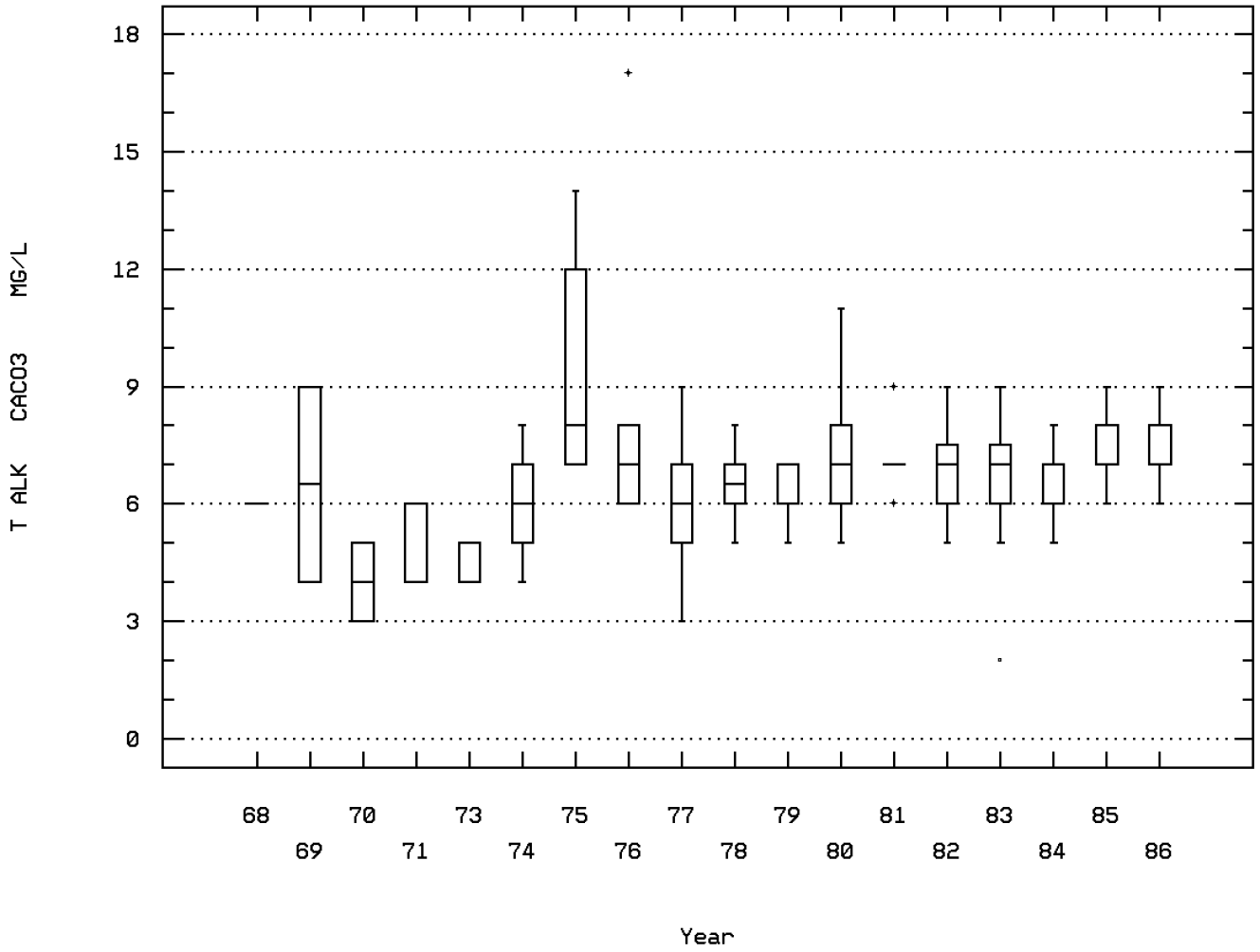
OXYGEN, DISSOLVED



LITTLE TENNESSEE RIVER AT TAPOCO NC

Station: GRSM0055 Parameter Code: 00410

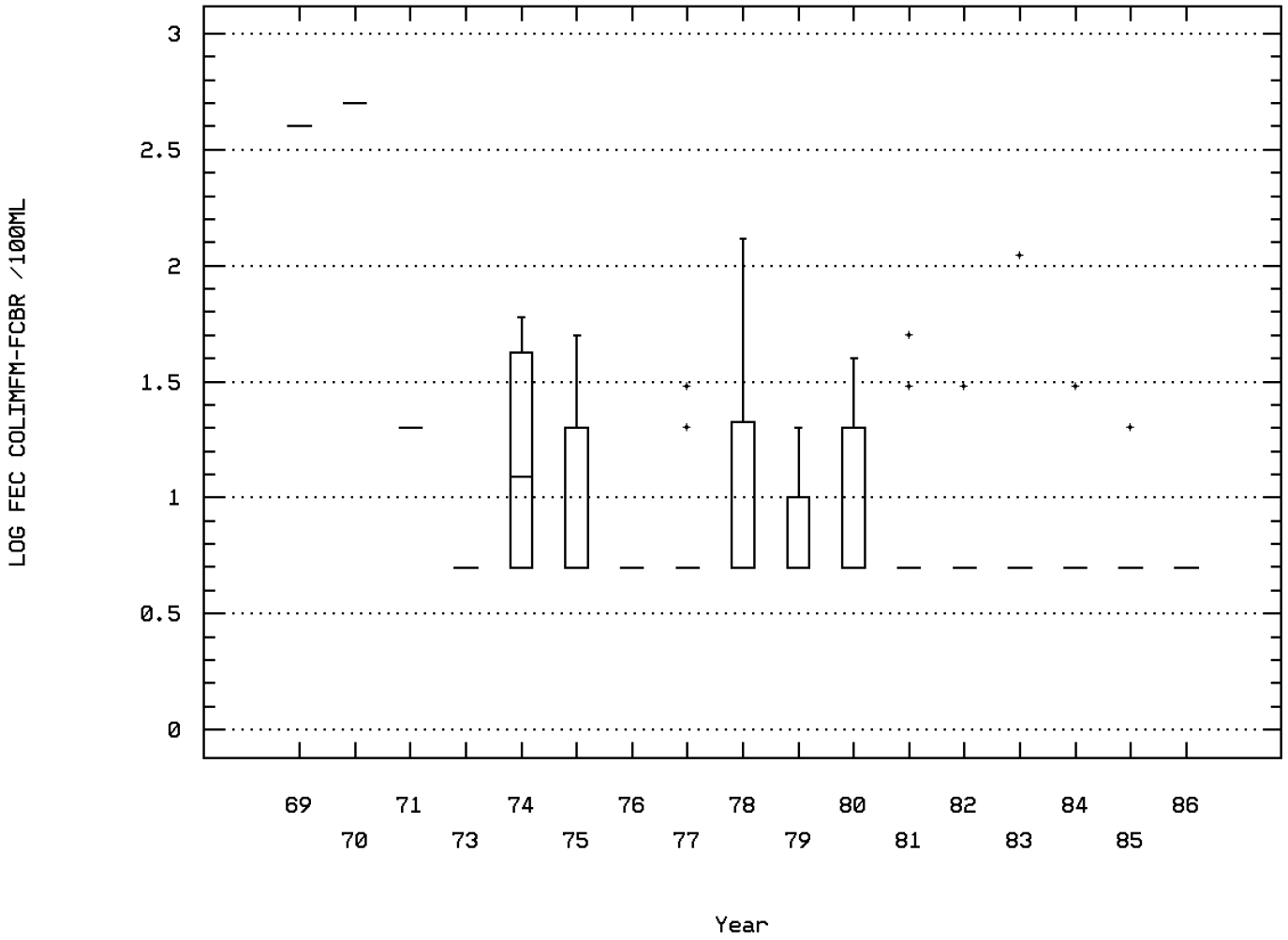
ALKALINITY, TOTAL (MG/L AS CACO3)



LITTLE TENNESSEE RIVER AT TAPOCO NC

Station: GRSM0055 Parameter Code: 31616

LOG FECAL COLIFORM,MEMBR FILTER,M-FC BR



LITTLE TENNESSEE RIVER AT TAPOCO NC

Seasonal Analysis for Season #1: 10/01 to 3/31 - Station GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-10/22/86	71	10.	10.901	21.	4.	18.669	4.321	6.	7.	14.	17.8
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/26/73-08/20/86	52	3.9	4.642	19.	0.5	15.289	3.91	1.	1.925	5.425	10.7
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/27/74-12/07/81	24	20.5	33.625	220.	10.	1787.114	42.274	10.	19.25	29.	63.5
00300	OXYGEN, DISSOLVED MG/L	06/20/68-10/22/86	70	9.85	9.389	13.8	3.3	4.065	2.016	6.71	7.675	10.975	11.7
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-09/06/85	34	84.5	83.	113.	37.	240.788	15.517	65.	72.	94.	97.
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-08/20/86	61	0.4	0.439	1.5	0.05	0.073	0.27	0.2	0.3	0.5	0.8
00335	COD, .025N K2CR2O7 MG/L	11/26/73-12/31/84	23 ##	2.5	4.13	12.5	2.5	8.3	2.881	2.5	2.5	5.	9.5
00340	COD, .25N K2CR2O7 MG/L	04/02/74-04/16/81	35 ##	5.	6.286	12.5	5.	8.225	2.868	5.	5.	5.	12.5
00400	PH (STANDARD UNITS)	06/20/68-10/22/86	63	6.6	6.567	7.1	5.7	0.068	0.262	6.3	6.5	6.7	6.9
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-10/22/86	63	6.6	6.469	7.1	5.7	0.078	0.279	6.3	6.5	6.7	6.9
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-10/22/86	63	0.251	0.34	1.995	0.079	0.104	0.323	0.126	0.2	0.316	0.501
00403	PH, LAB, STANDARD UNITS SU	11/15/79-10/22/86	42	6.6	6.629	6.8	6.4	0.012	0.109	6.43	6.6	6.7	6.8
00403	CONVERTED PH, LAB, STANDARD UNITS	11/15/79-10/22/86	42	6.6	6.615	6.8	6.4	0.012	0.11	6.43	6.6	6.7	6.8
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/15/79-10/22/86	42	0.251	0.243	0.398	0.158	0.004	0.065	0.158	0.2	0.251	0.374
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-10/22/86	72	7.	7.236	17.	3.	3.31	1.819	5.3	6.	8.	9.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-09/08/80	28	0.	3.357	53.	0.	136.979	11.704	0.	0.	0.	9.7
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/22/86	32	7.	7.156	10.	5.	1.362	1.167	6.	6.	8.	9.
00500	RESIDUE, TOTAL (MG/L)	02/15/77-10/22/86	45	27.	27.356	48.	8.	101.007	10.05	13.	20.	35.5	40.4
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/15/77-10/22/86	45	2.	2.922	16.	0.5	7.488	2.736	0.5	1.	4.	5.4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-10/22/86	53	0.025	0.037	0.12	0.005	0.001	0.027	0.01	0.025	0.05	0.076
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-10/22/86	53	0.1	0.113	0.3	0.005	0.005	0.07	0.05	0.05	0.2	0.2
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-10/22/86	53	0.15	0.15	0.2	0.09	0.001	0.027	0.11	0.13	0.17	0.186
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-10/22/86	55 ##	0.025	0.023	0.1	0.005	0.	0.017	0.01	0.01	0.025	0.025
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/77-08/20/86	9	6.	6.111	8.	4.	1.111	1.054	4.	6.	6.5	8.
01002	ARSENIC, TOTAL (UG/L AS AS)	05/29/74-08/20/86	20 ##	5.	9.25	90.	5.	361.25	19.007	5.	5.	5.	5.
01027	CADMIUM, TOTAL (UG/L AS CD)	05/29/74-08/20/86	28 ##	25.	20.571	50.	1.	97.291	9.864	9.5	10.	25.	25.
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/28/75-08/20/86	28 ##	25.	23.75	25.	2.5	22.917	4.787	23.75	25.	25.	25.
01037	COBALT, TOTAL (UG/L AS CO)	05/29/74-09/14/81	16 ##	50.	48.438	50.	25.	39.063	6.25	42.5	50.	50.	50.
01042	COPPER, TOTAL (UG/L AS CU)	05/29/74-08/20/86	28 ##	20.	17.357	40.	1.	51.497	7.176	9.5	10.	20.	20.
01045	IRON, TOTAL (UG/L AS FE)	05/29/74-09/14/81	17	100.	130.	400.	50.	10362.5	101.796	50.	50.	200.	320.
01051	LEAD, TOTAL (UG/L AS PB)	05/29/74-08/20/86	27 ##	50.	52.963	100.	5.	381.268	19.526	45.	50.	50.	100.
01055	MANGANESE, TOTAL (UG/L AS MN)	05/29/74-09/14/81	16	65.	91.563	370.	25.	10505.729	102.497	25.	25.	80.	335.
01067	NICKEL, TOTAL (UG/L AS NI)	02/15/77-08/20/86	19 ##	50.	46.316	50.	5.	132.895	11.528	25.	50.	50.	50.
01092	ZINC, TOTAL (UG/L AS ZN)	05/29/74-08/20/86	27 ##	25.	20.778	60.	1.	126.718	11.257	9.	10.	25.	25.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	69 ##	5.	14.565	400.	5.	2271.867	47.664	5.	5.	10.	30.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	69 ##	0.699	0.881	2.602	0.699	0.108	0.328	0.699	0.699	1.	1.477
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			7.612								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/17/77-10/22/86	42 ##	0.018	0.016	0.05	0.005	0.	0.011	0.005	0.005	0.025	0.025
71900	MERCURY, TOTAL (UG/L AS HG)	08/04/70-08/20/86	22 ##	0.25	0.5	4.9	0.1	1.173	1.083	0.1	0.1	0.25	1.685
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	11/24/75-09/23/86	60	5725.	5110.6	10649.	0.	8992247.295	2998.708	0.	2714.25	7271.	8130.

** - Less 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: 4/01 to 9/30 - Station GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-10/22/86	84	13.	13.095	19.	8.	7.816	2.796	9.	11.	15.	17.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/26/73-08/20/86	58	2.2	3.772	57.	0.07	54.828	7.405	0.5	1.2	4.075	6.33
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/27/74-12/07/81	28	20.	21.786	40.	15.	27.656	5.259	15.	20.	23.	30.2
00300	OXYGEN, DISSOLVED MG/L	06/20/68-10/22/86	84	9.4	9.358	12.	6.8	1.655	1.286	7.6	8.4	10.4	10.85
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-09/06/85	49	90.	90.02	109.	69.	86.062	9.277	78.	83.	97.	103.
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-08/20/86	67	0.5	0.529	1.7	0.05	0.085	0.292	0.2	0.3	0.7	0.92
00335	COD, .025N K2CR2O7 MG/L	11/26/73-12/31/84	23 ##	2.5	3.696	5.	2.5	1.63	1.277	2.5	2.5	5.	5.
00340	COD, .25N K2CR2O7 MG/L	04/02/74-04/16/81	37 ##	5.	6.419	12.5	5.	8.868	2.978	5.	5.	5.	12.5
00400	PH (STANDARD UNITS)	06/20/68-10/22/86	77	6.5	6.469	7.1	3.6	0.186	0.432	6.08	6.325	6.7	6.82
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-10/22/86	77	6.5	5.439	7.1	3.6	1.263	1.124	6.08	6.325	6.7	6.82
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-10/22/86	77	0.316	3.643	251.189	0.079	816.993	28.583	0.152	0.2	0.474	0.835

** - Less 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: 4/01 to 9/30 - Station GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	11/15/79-10/22/86	41	6.6	6.561	6.8	6.3	0.016	0.126	6.4	6.5	6.7	6.7
00403	CONVERTED PH, LAB, STANDARD UNITS	11/15/79-10/22/86	41	6.6	6.543	6.8	6.3	0.016	0.128	6.4	6.5	6.7	6.7
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/15/79-10/22/86	41	0.251	0.287	0.501	0.158	0.008	0.087	0.2	0.2	0.316	0.398
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-10/22/86	81	7.	6.568	14.	2.	2.848	1.688	5.	6.	7.	8.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-09/08/80	39	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/25/80-10/22/86	36	6.	6.417	12.	4.	3.279	1.811	4.7	5.	8.	9.
00500	RESIDUE, TOTAL (MG/L)	02/15/77-10/22/86	46	30.5	30.304	67.	11.	156.839	12.524	15.4	21.75	35.25	49.1
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/15/77-10/22/86	47	2.	2.84	11.	0.5	5.566	2.359	0.5	1.	4.	5.4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-10/22/86	58 ##	0.025	0.026	0.07	0.01	0.	0.011	0.01	0.02	0.025	0.04
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-10/22/86	60	0.1	0.119	0.6	0.05	0.011	0.103	0.05	0.05	0.1	0.2
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-10/22/86	60	0.17	0.446	16.	0.1	4.174	2.043	0.131	0.15	0.2	0.21
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-10/22/86	69 ##	0.025	0.03	0.1	0.005	0.001	0.028	0.01	0.01	0.025	0.1
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/77-08/20/86	12	6.	5.333	8.	2.	4.424	2.103	2.	3.25	6.75	8.
01002	ARSENIC, TOTAL (UG/L AS AS)	05/29/74-08/20/86	21 ##	5.	5.238	10.	5.	1.19	1.091	5.	5.	5.	5.
01027	CADMIUM, TOTAL (UG/L AS CD)	05/29/74-08/20/86	26 ##	25.	20.	25.	5.	60.	7.746	8.5	10.	25.	25.
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/28/75-08/20/86	25 ##	25.	24.	25.	12.5	11.979	3.461	20.	25.	25.	25.
01037	COBALT, TOTAL (UG/L AS CO)	05/29/74-09/14/81	16 ##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01042	COPPER, TOTAL (UG/L AS CU)	05/29/74-08/20/86	26 ##	20.	137.308	3000.	5.	341290.462	584.201	8.5	10.	20.	65.
01045	IRON, TOTAL (UG/L AS FE)	05/29/74-09/14/81	19 ##	50.	91.316	200.	25.	3316.228	57.587	50.	50.	100.	200.
01051	LEAD, TOTAL (UG/L AS PB)	05/29/74-08/20/86	26 ##	50.	50.	100.	25.	150.	12.247	42.5	50.	50.	50.
01055	MANGANESE, TOTAL (UG/L AS MN)	05/29/74-09/14/81	18 ##	25.	36.389	90.	25.	422.958	20.566	25.	25.	50.	72.
01067	NICKEL, TOTAL (UG/L AS NI)	02/15/77-08/20/86	14 ##	50.	64.286	300.	25.	4684.066	68.44	25.	50.	50.	175.
01092	ZINC, TOTAL (UG/L AS ZN)	05/29/74-08/20/86	26 ##	25.	307.308	7000.	5.	1864776.462	1365.568	8.5	10.	82.5	119.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	76 ##	5.	20.658	500.	5.	3612.895	60.107	5.	5.	10.	43.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	76 ##	0.699	0.956	2.699	0.699	0.169	0.411	0.699	0.699	1.	1.631
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			9.028								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/17/77-10/22/86	49 ##	0.025	0.016	0.025	0.005	0.	0.01	0.005	0.005	0.025	0.025
71900	MERCURY, TOTAL (UG/L AS HG)	08/04/70-08/20/86	27 ##	0.25	0.289	1.4	0.1	0.088	0.297	0.1	0.1	0.25	0.62
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	11/24/75-09/23/86	60	5881.	5031.583	8181.	0.	7741253.637	2782.311	0.	3300.5	7443.	8075.9

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Station Inventory for Station: GRSM0056

NPS Station ID: GRSM0056
LAT/LON: 35.450282/ -83.941949
Agency: 112WRD
Date Created: / /
Location: LITTLE TENNESSEE RIVER AT TAPOCO N C
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03517533
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010204020
RF1 Mile Point: 13.730
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010202000100.01
RF3 Mile Point: 0.00
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0056

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/21/68-02/21/73	14	11.5	11.5	17.	7.	9.192	3.032	7.5	8.	14.	16.
00060	FLOW, STREAM, MEAN DAILY CFS	05/21/68-02/21/73	16	7580.	6571.188	8130.	1180.	4194385.229	2048.02	2370.	5567.5	7937.5	8081.
00080	COLOR (PLATINUM-COBALT UNITS)	05/21/68-05/24/72	11	5.	4.818	5.	3.	0.364	0.603	3.4	5.	5.	5.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/21/68-05/24/72	11	23.	22.364	26.	20.	2.655	1.629	20.2	21.	23.	25.4
00300	OXYGEN, DISSOLVED MG/L	05/21/68-02/21/73	10	9.25	9.3	15.1	6.	5.931	2.435	6.12	7.5	10.025	14.6
00400	PH (STANDARD UNITS)	05/21/68-02/21/73	18	6.1	6.144	7.5	5.5	0.172	0.415	5.77	5.975	6.3	6.69
00400	CONVERTED PH (STANDARD UNITS)	05/21/68-02/21/73	18	6.1	6.02	7.5	5.5	0.188	0.434	5.77	5.975	6.3	6.69
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/21/68-02/21/73	18	0.794	0.955	3.162	0.032	0.467	0.683	0.229	0.501	1.065	1.743
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/21/68-05/24/72	14	4.5	4.429	6.	3.	0.725	0.852	3.	4.	5.	5.5
00440	BICARBONATE ION (MG/L AS HCO3)	05/21/68-05/24/72	11	6.	5.545	7.	4.	0.673	0.82	4.2	5.	6.	6.8
00445	CARBONATE ION (MG/L AS CO3)	05/21/68-05/24/72	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)	09/21/70-09/21/70	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/05/71-05/24/72	3	0.5	0.487	0.56	0.4	0.007	0.081	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/21/68-03/16/71	8	0.	0.005	0.04	0.	0.	0.014	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/71-05/24/72	3	0.	0.005	0.015	0.	0.	0.009	**	**	**	**
00745	SULFIDE, TOTAL (MG/L AS S)	12/08/70-12/08/70	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/21/68-05/24/72	11	6.	5.909	7.	5.	0.491	0.701	5.	5.	6.	7.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/21/68-05/24/72	11	2.	1.273	2.	0.	0.818	0.905	0.	0.	2.	2.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/21/68-05/24/72	11	1.4	1.482	2.2	1.2	0.076	0.275	1.2	1.3	1.6	2.08
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/21/68-05/24/72	11	0.5	0.509	0.8	0.3	0.019	0.138	0.32	0.4	0.5	0.78
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/21/68-05/24/72	11	1.3	1.309	1.6	1.	0.029	0.17	1.02	1.2	1.4	1.58
00931	SODIUM ADSORPTION RATIO	05/21/68-05/24/72	11	0.2	0.245	0.3	0.2	0.003	0.052	0.2	0.2	0.3	0.3
00932	SODIUM, PERCENT	05/21/68-05/24/72	11	31.	30.182	34.	26.	7.764	2.786	26.	28.	33.	33.8
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/21/68-05/24/72	11	0.6	0.618	1.	0.4	0.03	0.172	0.42	0.5	0.7	0.96
00940	CHLORIDE,TOTAL IN WATER MG/L	05/21/68-05/24/72	11	1.	1.164	2.	0.8	0.175	0.418	0.84	1.	1.	2.
00945	SULFATE, TOTAL (MG/L AS SO4)	05/21/68-05/24/72	11	2.	2.818	8.	1.	3.364	1.834	1.2	2.	3.	7.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/21/68-05/24/72	11	0.	0.045	0.1	0.	0.003	0.052	0.	0.	0.1	0.1
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/21/68-05/24/72	11	6.5	6.391	7.1	5.3	0.291	0.539	5.36	6.2	6.8	7.06
01046	IRON, DISSOLVED (UG/L AS FE)	05/21/68-05/24/72	11	0.	3.727	21.	0.	68.818	8.296	0.	0.	0.	20.8
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/21/70-10/05/71	3	30.	30.	50.	10.	400.	20.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/21/70-10/05/71	3	1.477	1.392	1.699	1.	0.128	0.357	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			24.662								
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	05/21/68-05/24/72	11	0.02	0.021	0.05	0.	0.	0.018	0.	0.	0.04	0.048
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/21/68-05/24/72	10	20.5	21.3	29.	18.	14.678	3.831	18.	18.	23.25	28.8
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/21/68-05/24/72	11	18.	18.636	22.	17.	2.055	1.433	17.	18.	19.	21.6
70302	SOLIDS, DISSOLVED-TONS PER DAY	05/21/68-05/24/72	8	313.5	344.375	585.	140.	16689.125	129.186	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	05/21/68-05/24/72	11	0.03	0.028	0.04	0.02	0.	0.008	0.02	0.02	0.03	0.04
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/21/68-03/16/71	8	1.8	1.713	2.8	0.5	0.496	0.704	**	**	**	**

** - Less 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: GRSM0056

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71890	MERCURY, DISSOLVED (UG/L AS HG)	09/21/70-09/21/70	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	12/08/70-12/08/70	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0056

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	10	0	0.00	4	0	0.00	6	0	0.00						
00400	PH	Other-Hi Lim.	9.	18	0	0.00	10	0	0.00	8	0	0.00						
		Other-Lo Lim.	6.5	18	16	0.89	10	8	0.80	8	8	1.00						
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	3	0	0.00	2	0	0.00	1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	11	0	0.00	6	0	0.00	5	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	11	0	0.00	6	0	0.00	5	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	3	0	0.00	2	0	0.00	1	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	8	0	0.00	4	0	0.00	4	0	0.00						
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0057

NPS Station ID: GRSM0057
LAT/LON: 35.451392/ -83.804726
Agency: 131TVAC
Date Created: / /
Location: FONTANA DAM SCROLL CASE
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 360116 /3944
RMI-Indexes: 1021500 007720 00920 8540
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 601.10 061.00
HUC: 06010202
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 61.0
ECO Region:
RF1 Index: 06010202009
RF1 Mile Point: 4.200
Distance from RF1: 20.90
On/Off RF1: ON
RF3 Index: 06010202045300.00
RF3 Mile Point: 0.99
Distance from RF3: 0.37
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	1155	10.	10.991	21.	4.	15.707	3.963	6.	8.	14.	17.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	836	5900.	6148.398	93000.	0.	30475694.748	5520.48	2600.	4200.	7500.	8800.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/04/66-06/17/80	68	3.75	4.507	25.	0.5	13.965	3.737	1.28	2.25	5.925	8.72
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/66-06/17/80	68	6.5	7.801	20.	1.	23.397	4.837	2.95	5.	10.	15.
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	01/28/74-09/19/77	45	15.	15.711	45.	1.	65.074	8.067	5.	10.	20.	25.8
00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)	05/04/66-01/30/67	8 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/29/88-04/29/88	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/66-06/17/80	68	23.	25.353	47.	19.	38.351	6.193	20.	21.	28.	36.1
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	867	7.7	7.144	12.4	0.4	5.709	2.389	3.4	5.5	9.	9.8
00310	BOD, 5 DAY, 20 DEG C MG/L	05/04/66-06/17/80	20 ##	0.75	0.935	2.4	0.5	0.296	0.544	0.5	0.5	1.2	1.78
00335	COD, .025N K2CR2O7 MG/L	01/28/74-02/26/79	51	2.	2.922	12.	0.5	5.384	2.32	0.5	1.	4.	6.8
00400	PH (STANDARD UNITS)	05/04/66-04/29/88	69	6.4	6.299	7.4	4.1	0.25	0.5	5.9	6.1	6.5	6.8
00400	CONVERTED PH (STANDARD UNITS)	05/04/66-04/29/88	69	6.4	5.705	7.4	4.1	0.608	0.779	5.9	6.1	6.5	6.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/66-04/29/88	69	0.398	1.971	79.433	0.04	92.092	9.596	0.158	0.316	0.794	1.259
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/04/66-06/17/80	67	6.	7.	46.	0.	27.333	5.228	4.	5.	8.	9.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/04/66-06/17/80	67	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)	10/24/66-01/30/67	3	30.	30.	40.	20.	100.	10.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/24/66-01/30/67	3	20.	21.667	40.	5.	308.333	17.559	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/28/74-06/17/80	55 ##	0.5	1.473	9.	0.5	2.495	1.579	0.5	0.5	2.	3.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	05/04/66-06/17/80	67	0.06	0.071	0.31	0.005	0.004	0.059	0.01	0.02	0.11	0.16
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/04/66-06/17/80	67	0.03	0.048	0.26	0.005	0.004	0.061	0.005	0.01	0.05	0.144
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/04/66-01/30/67	8 ##	0.005	0.007	0.01	0.005	0.	0.003	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/04/66-01/30/67	8	0.045	0.064	0.17	0.005	0.003	0.059	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/74-06/17/80	59	0.2	0.25	0.49	0.07	0.013	0.116	0.13	0.17	0.33	0.44
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/66-06/17/80	67	0.01	0.016	0.166	0.005	0.	0.02	0.005	0.01	0.02	0.029
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/04/66-05/20/76	10	0.009	0.01	0.026	0.003	0.	0.007	0.003	0.005	0.014	0.025
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/20/79-06/17/80	9	0.01	0.01	0.03	0.005	0.	0.008	0.005	0.005	0.01	0.03
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/17/77-06/17/80	16	1.4	1.431	3.2	0.4	0.494	0.703	0.54	1.	1.825	2.57
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/20/79-03/20/79	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/20/79-06/17/80	9	7.	7.222	16.	3.	12.944	3.598	3.	5.5	7.5	16.
00916	CALCIUM, TOTAL (MG/L AS CA)	10/24/66-02/26/79	49	2.	2.049	7.	0.5	0.993	0.997	1.	2.	2.05	3.
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/24/66-02/26/79	49	0.6	0.731	5.	0.3	0.411	0.641	0.5	0.6	0.7	0.9
00929	SODIUM, TOTAL (MG/L AS NA)	01/28/74-02/26/79	46	1.3	1.561	3.5	0.9	0.431	0.656	1.1	1.1	1.625	2.83
00937	POTASSIUM, TOTAL MG/L AS K)	01/28/74-02/26/79	46	0.6	0.672	2.9	0.3	0.143	0.378	0.4	0.5	0.728	0.9
00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/66-06/17/80	63	2.	2.19	5.	0.5	1.044	1.022	1.	2.	3.	3.6
00945	SULFATE, TOTAL (MG/L AS SO4)	06/06/66-06/17/80	59	1.	2.008	21.	0.5	8.306	2.882	0.5	0.5	2.	3.
00951	FLUORIDE, TOTAL (MG/L AS F)	01/28/74-09/19/77	38 ##	0.05	0.042	0.05	0.01	0.	0.013	0.02	0.03	0.05	0.05
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/17/75-02/01/77	23	6.7	6.639	7.3	5.1	0.212	0.46	6.06	6.4	6.9	7.16

** - Less 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: GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00956	SILICA, TOTAL (MG/L AS SI02)	06/06/66-02/18/75	17	7.1	7.147	8.7	5.6	0.686	0.828	5.76	6.55	7.8	8.38
01007	BARIUM, TOTAL (UG/L AS BA)	03/17/77-09/19/77	3 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/17/77-09/19/77	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	03/17/77-06/17/80	18 ##	0.5	0.572	2.	0.3	0.129	0.359	0.48	0.5	0.5	0.65
01042	COPPER, TOTAL (UG/L AS CU)	03/17/77-06/17/80	18	15.	18.889	70.	5.	363.399	19.063	5.	5.	22.5	61.
01045	IRON, TOTAL (UG/L AS FE)	05/04/66-02/26/79	59	230.	262.373	980.	50.	39252.893	198.123	90.	130.	320.	420.
01046	IRON, DISSOLVED (UG/L AS FE)	03/20/79-06/17/80	9 ##	25.	58.333	300.	5.	8506.25	92.229	5.	25.	47.5	300.
01047	IRON, FERROUS (UG/L AS FE)	05/04/66-01/30/67	8 ##	37.5	50.	150.	25.	1785.714	42.258	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	03/17/77-06/17/80	18 ##	5.	8.5	43.	1.	97.676	9.883	4.6	5.	5.	22.3
01055	MANGANESE, TOTAL (UG/L AS MN)	06/06/66-02/26/79	57	40.	60.	420.	5.	5019.643	70.849	10.	20.	70.	140.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/20/79-06/17/80	9	20.	26.111	50.	5.	367.361	19.167	5.	5.	45.	50.
01067	NICKEL, TOTAL (UG/L AS NI)	03/17/77-02/26/79	9 ##	5.	38.889	250.	5.	6361.111	79.757	5.	5.	25.	250.
01077	SILVER, TOTAL (UG/L AS AG)	03/17/77-09/19/77	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	01/30/67-06/17/80	19	30.	47.632	210.	5.	2803.801	52.951	5.	20.	50.	140.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/17/77-02/26/79	9	100.	226.667	600.	70.	43875.	209.464	70.	90.	445.	600.
01132	LITHIUM, TOTAL (UG/L AS LI)	03/17/77-09/19/77	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01152	TITANIUM, TOTAL (UG/L AS TI)	03/17/77-09/19/77	3 ##	500.	500.	500.	500.	0.	0.	**	**	**	**
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	05/04/66-01/30/67	8	102.	219.5	1100.	2.	132435.429	363.917	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	05/04/66-01/30/67	8	2.007	1.795	3.041	0.301	0.796	0.892	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			62.412								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	05/04/66-01/30/67	8 ##	3.5	17.125	94.	1.	1042.125	32.282	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	05/04/66-01/30/67	8 ##	0.389	0.62	1.973	0.	0.582	0.763	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			4.17								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/18/76-06/17/80	9 ##	5.	6.111	10.	5.	4.861	2.205	5.	5.	7.5	10.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/18/76-06/17/80	9 ##	0.699	0.766	1.	0.699	0.018	0.133	0.699	0.699	0.849	1.
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.833								
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	05/04/66-02/26/79	54	7.5	8.056	26.	2.	14.346	3.788	5.	7.	9.25	11.5
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/28/74-06/17/80	55	20.	31.636	230.	10.	1376.902	37.107	10.	20.	30.	48.
71900	MERCURY, TOTAL (UG/L AS HG)	03/17/77-06/17/80	17 ##	0.1	0.224	1.7	0.1	0.149	0.387	0.1	0.1	0.15	0.58

** - Less 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: GRSM0057

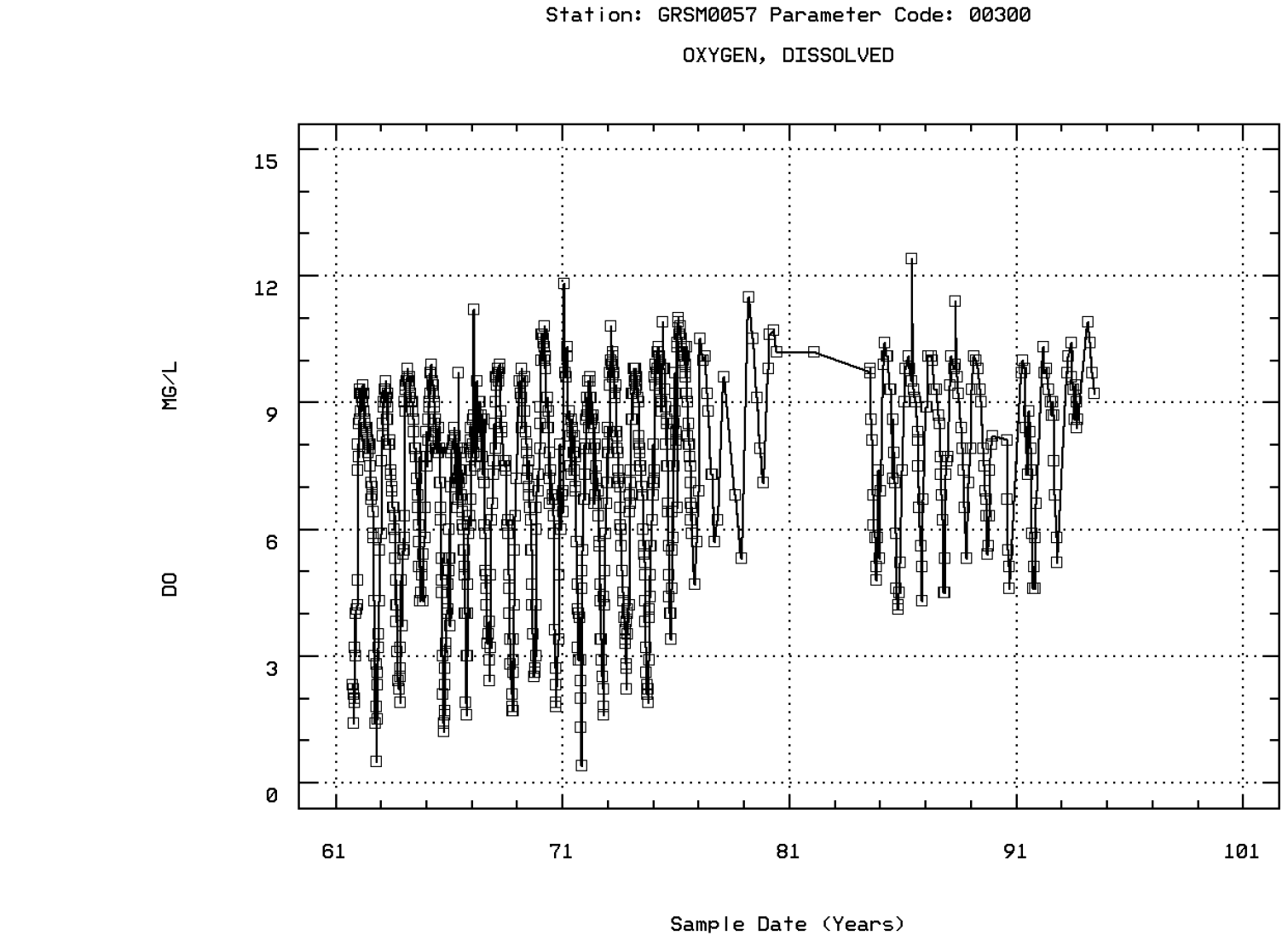
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	68	0	0.00	31	0	0.00	37	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	867	114	0.13	412	81	0.20	455	33	0.07						
00400	PH	Other-Hi Lim.	9.	69	0	0.00	31	0	0.00	38	0	0.00						
		Other-Lo Lim.	6.5	69	53	0.77	31	21	0.68	38	32	0.84						
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	8	0	0.00	3	0	0.00	5	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	8	0	0.00	3	0	0.00	5	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	59	0	0.00	28	0	0.00	31	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	63	0	0.00	30	0	0.00	33	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	59	0	0.00	29	0	0.00	30	0	0.00						
01007	BARIUM, TOTAL	Drinking Water	2000.	3	0	0.00	1	0	0.00	2	0	0.00						
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	3	0	0.00	1	0	0.00	2	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	18	0	0.00	9	0	0.00	9	0	0.00						
		Drinking Water	5.	18	0	0.00	9	0	0.00	9	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	18	9	0.50	9	6	0.67	9	3	0.33						
		Drinking Water	1300.	18	0	0.00	9	0	0.00	9	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	18	0	0.00	9	0	0.00	9	0	0.00						
		Drinking Water	5.	4 &	3	0.75	2	2	1.00	2	1	0.50						
01067	NICKEL, TOTAL	Fresh Acute	1400.	9	0	0.00	5	0	0.00	4	0	0.00						
		Drinking Water	100.	8 &	0	0.00	5	0	0.00	3	0	0.00						
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	50.	3	0	0.00	1	0	0.00	2	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	19	2	0.11	10	1	0.10	9	1	0.11						
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	8	1	0.13	3	0	0.00	5	1	0.20						
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	8	0	0.00	3	0	0.00	5	0	0.00						

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

EPA Water Quality Criteria Analysis for Station: GRSM0057

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	9	0	0.00	5	0	0.00	4	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	17	0	0.00	9	0	0.00	8	0	0.00						
		Drinking Water	2.	17	0	0.00	9	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



FONTANA DAM SCROLL CASE

Annual Analysis for 1961 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	13	17.	15.769	18.	10.	8.026	2.833	10.4	13.5	18.	18.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	13	3.	3.277	7.4	1.4	2.667	1.633	1.6	2.05	4.15	6.36

** - Less 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 GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	49	10.	10.745	19.	6.	12.064	3.473	7.	9.	12.5	17.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	49	7.9	6.714	9.4	0.5	6.719	2.592	2.3	4.9	8.6	9.2

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

Annual Analysis for 1963 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	49	8.	10.306	19.	5.	18.884	4.346	6.	7.	14.	17.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	47	6.5	6.179	9.5	1.	6.076	2.465	2.4	4.2	8.5	9.12

** - Less 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 GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	48	9.	9.635	16.	5.	10.593	3.255	6.	7.	11.75	15.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	47	7.9	7.555	9.8	4.3	3.204	1.79	4.82	5.8	9.1	9.5

** - 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 1965 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	49	10.	10.694	18.	6.	15.717	3.964	6.	7.	14.5	17.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	49	7.8	6.543	9.9	1.2	7.299	2.702	2.1	4.3	8.75	9.4

** - 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 1966 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	52	9.1	10.346	19.	5.	16.909	4.112	5.3	7.	13.	17.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	7	6039.	8835.714	27000.	4500.	64908418.905	8056.576	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/04/66-06/17/80	7	6.	5.714	15.	0.5	24.821	4.982	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/66-06/17/80	7	15.	14.286	20.	5.	36.905	6.075	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/66-06/17/80	7	34.	34.714	40.	30.	16.571	4.071	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	50	6.7	6.334	9.7	1.6	3.196	1.788	3.73	5.25	7.825	8.1
00400	PH (STANDARD UNITS)	05/04/66-04/29/88	7	6.7	6.5	7.2	5.4	0.56	0.748	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/04/66-04/29/88	7	6.7	5.951	7.2	5.4	0.911	0.954	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/66-04/29/88	7	0.2	1.118	3.981	0.063	2.868	1.694	**	**	**	**

** - Less 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 1966 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/04/66-06/17/80	7	8.	7.	10.	1.	10.	3.162	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/04/66-06/17/80	7	0.	0.	0.	0.	0.	0.	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	05/04/66-06/17/80	7	0.06	0.121	0.31	0.02	0.011	0.107	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/04/66-06/17/80	7	0.05	0.106	0.24	0.005	0.01	0.098	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/66-06/17/80	7	0.016	0.04	0.166	0.01	0.003	0.056	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/04/66-02/26/79	7	230.	342.857	980.	90.	94090.476	306.742	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/06/66-02/26/79	6	75.	156.667	420.	30.	24666.667	157.056	**	**	**	**

** - Less 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 1967 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	46	9.	10.467	18.	7.	14.316	3.784	7.	7.	13.25	17.3
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	1	1300.	1300.	1300.	1300.	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/04/66-06/17/80	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/66-06/17/80	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/66-06/17/80	1	41.	41.	41.	41.	0.	0.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	45	7.7	6.904	11.2	2.4	4.297	2.073	3.42	4.95	8.5	8.82
00400	PH (STANDARD UNITS)	05/04/66-04/29/88	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/04/66-04/29/88	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/66-04/29/88	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/04/66-06/17/80	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/04/66-06/17/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	05/04/66-06/17/80	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/04/66-06/17/80	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/66-06/17/80	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/04/66-02/26/79	1	740.	740.	740.	740.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/06/66-02/26/79	1	50.	50.	50.	50.	0.	0.	**	**	**	**

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Annual Analysis for 1968 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	39	9.	10.59	18.	5.	18.543	4.306	6.	7.	15.	17.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	29	6800.	5956.379	7400.	45.	3210355.172	1791.746	3300.	4950.	7125.	7300.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	39	7.4	6.485	9.9	1.7	7.54	2.746	2.1	4.	8.8	9.7

** - 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 1969 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	37	8.1	10.314	19.	6.	19.371	4.401	6.	6.3	14.1	17.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	37	5000.	5307.108	7500.	2500.	2062386.655	1436.101	3100.	4770.	6700.	7080.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	35	7.	6.734	9.8	2.5	4.835	2.199	2.88	5.5	8.4	9.5

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Annual Analysis for 1970 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	37	7.	9.246	18.	5.2	18.175	4.263	5.2	6.	12.8	17.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	37	4700.	4588.216	7500.	1100.	3585858.563	1893.636	2040.	2900.	6580.	6951.2
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	36	8.2	7.531	10.8	1.8	7.356	2.712	2.58	6.075	9.95	10.53

** - Less 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 GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	44	9.5	10.855	19.	5.	19.005	4.36	6.5	7.	14.75	18.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	37	5400.	7213.622	87000.	1500.	186748602.186	13665.599	1788.	2750.	6800.	8040.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	44	6.95	6.541	11.8	0.4	6.697	2.588	2.65	4.625	8.375	9.65

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Annual Analysis for 1972 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	50	9.5	10.716	18.	7.	11.759	3.429	7.	8.	13.25	16.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	49	6000.	6720.816	48000.	1600.	40417834.486	6357.502	3000.	4150.	7500.	8600.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	49	7.3	6.804	9.6	1.6	5.181	2.276	2.9	5.3	8.7	9.1

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Annual Analysis for 1973 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	51	12.	12.255	19.	6.5	13.904	3.729	8.	8.5	16.	17.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	50	6550.	8179.5	93000.	700.	154070706.378	12412.522	4210.	4900.	7887.5	8545.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	51	7.1	6.859	10.8	2.2	6.022	2.454	3.42	4.3	9.2	9.9

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Annual Analysis for 1974 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	57	11.	12.842	21.	8.5	12.582	3.547	9.	10.	16.	18.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	57	6500.	6497.368	9450.	0.	5156912.594	2270.884	3540.	4525.	8500.	9050.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/04/66-06/17/80	12	3.5	4.55	11.	0.5	11.219	3.349	0.86	2.025	6.675	10.7
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/66-06/17/80	12	7.5	8.958	20.	2.5	33.475	5.786	3.25	5.	10.	20.
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	01/28/74-09/19/77	12	15.	16.667	45.	5.	119.697	10.941	6.5	10.	18.75	40.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/66-06/17/80	12	26.5	28.417	47.	21.	49.902	7.064	21.6	24.	29.75	43.7
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	51	7.4	6.708	9.8	1.9	6.058	2.461	2.66	4.9	9.1	9.58
00335	COD, .025N K2CR2O7 MG/L	01/28/74-02/26/79	12	3.	2.542	5.	0.5	2.566	1.602	0.5	0.625	4.	4.7
00400	PH (STANDARD UNITS)	05/04/66-04/29/88	12	6.2	6.225	6.4	6.	0.017	0.129	6.	6.2	6.3	6.4
00400	CONVERTED PH (STANDARD UNITS)	05/04/66-04/29/88	12	6.2	6.207	6.4	6.	0.017	0.13	6.	6.2	6.3	6.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/66-04/29/88	12	0.631	0.621	1.	0.398	0.039	0.198	0.398	0.501	0.631	1.
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/04/66-06/17/80	12	5.	5.083	8.	4.	1.538	1.24	4.	4.	6.	7.4
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/04/66-06/17/80	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	05/04/66-06/17/80	12	0.065	0.078	0.16	0.01	0.003	0.052	0.013	0.033	0.125	0.16
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/04/66-06/17/80	12	0.035	0.083	0.26	0.005	0.009	0.095	0.005	0.005	0.17	0.251

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Annual Analysis for 1974 - Station GRSM0057

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)	01/28/74-06/17/80	12	0.43	0.423	0.49	0.27	0.003	0.057	0.306	0.403	0.465	0.484
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/66-06/17/80	12	0.01	0.013	0.02	0.005	0.	0.007	0.005	0.006	0.02	0.02
01045	IRON, TOTAL (UG/L AS FE)	05/04/66-02/26/79	12	155.	255.833	820.	60.	46226.515	215.004	75.	110.	367.5	697.
01055	MANGANESE, TOTAL (UG/L AS MN)	06/06/66-02/26/79	12	30.	52.083	140.	5.	2333.902	48.31	6.5	12.5	95.	137.

** - Less 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 GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	53	11.	12.113	19.5	7.5	13.641	3.693	8.	9.	14.5	18.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	53	6100.	6183.019	9000.	2100.	2919706.096	1708.715	4000.	4800.	7725.	8570.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/04/66-06/17/80	12	3.7	4.192	8.7	1.4	3.643	1.909	1.73	3.025	5.375	7.8
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/66-06/17/80	12	9.	9.583	15.	5.	9.72	3.118	5.3	7.25	12.75	14.4
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	01/28/74-09/19/77	12	19.	19.333	28.	14.	18.242	4.271	14.3	15.5	22.25	27.1
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/66-06/17/80	12	22.	22.417	29.	20.	6.265	2.503	20.	20.25	23.75	27.5
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	53	8.8	8.185	10.9	3.4	3.85	1.962	4.72	7.1	9.8	10.16
00335	COD, .025N K2CR2O7 MG/L	01/28/74-02/26/79	12	3.5	3.583	7.	0.5	6.22	2.494	0.5	1.25	6.5	7.
00400	PH (STANDARD UNITS)	05/04/66-04/29/88	12	6.4	6.367	6.5	6.1	0.015	0.123	6.13	6.3	6.475	6.5
00400	CONVERTED PH (STANDARD UNITS)	05/04/66-04/29/88	12	6.4	6.349	6.5	6.1	0.015	0.124	6.13	6.3	6.475	6.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/66-04/29/88	12	0.398	0.447	0.794	0.316	0.02	0.143	0.316	0.337	0.501	0.745
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/04/66-06/17/80	12	7.	7.083	9.	5.	1.902	1.379	5.3	6.	8.	9.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/04/66-06/17/80	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	05/04/66-06/17/80	12	0.085	0.085	0.17	0.01	0.002	0.047	0.019	0.05	0.118	0.164
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/04/66-06/17/80	12	0.025	0.028	0.07	0.01	0.	0.02	0.01	0.01	0.038	0.067
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/74-06/17/80	12	0.21	0.243	0.45	0.13	0.011	0.106	0.133	0.155	0.305	0.441
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/66-06/17/80	12	0.01	0.012	0.02	0.005	0.	0.006	0.005	0.006	0.02	0.02
01045	IRON, TOTAL (UG/L AS FE)	05/04/66-02/26/79	12	245.	207.5	380.	50.	11493.182	107.206	56.	107.5	285.	362.
01055	MANGANESE, TOTAL (UG/L AS MN)	06/06/66-02/26/79	12	45.	58.75	160.	5.	2418.75	49.181	6.5	20.	77.5	154.

** - Less 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 GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	54	9.5	10.802	18.	6.	11.092	3.33	7.	8.	13.25	16.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	53	7350.	7021.698	21000.	500.	14688991.292	3832.622	2040.	5200.	8250.	9420.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/04/66-06/17/80	11	2.8	3.782	8.9	1.3	5.33	2.309	1.42	2.2	5.7	8.32
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/66-06/17/80	11	3.	3.727	9.	1.	9.618	3.101	1.	1.	6.	9.
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	01/28/74-09/19/77	11	12.	11.727	27.	1.	59.018	7.682	1.8	5.	13.	26.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/66-06/17/80	11	21.	22.182	28.	20.	6.764	2.601	20.	20.	23.	27.6
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	42	9.95	9.031	11.	4.7	2.964	1.722	6.29	7.925	10.4	10.74
00335	COD, .025N K2CR2O7 MG/L	01/28/74-02/26/79	11	3.	3.227	7.	0.5	4.668	2.161	0.6	2.	6.	6.8
00400	PH (STANDARD UNITS)	05/04/66-04/29/88	11	6.4	6.191	6.7	4.9	0.249	0.499	5.1	6.	6.5	6.68
00400	CONVERTED PH (STANDARD UNITS)	05/04/66-04/29/88	11	6.4	5.779	6.7	4.9	0.436	0.66	5.1	6.	6.5	6.68
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/66-04/29/88	11	0.398	1.665	12.589	0.2	13.252	3.64	0.21	0.316	1.	10.323
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/04/66-06/17/80	11	7.	9.727	46.	1.	148.818	12.199	1.8	5.	8.	38.4
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/04/66-06/17/80	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	05/04/66-06/17/80	11	0.06	0.063	0.19	0.005	0.003	0.055	0.006	0.02	0.09	0.176
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/04/66-06/17/80	11	0.05	0.054	0.11	0.01	0.001	0.037	0.01	0.02	0.09	0.11
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/74-06/17/80	11	0.18	0.208	0.33	0.16	0.003	0.058	0.16	0.17	0.23	0.324
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/66-06/17/80	11	0.01	0.018	0.05	0.01	0.	0.013	0.01	0.01	0.02	0.046
01045	IRON, TOTAL (UG/L AS FE)	05/04/66-02/26/79	11	280.	294.545	900.	100.	47907.273	218.877	108.	140.	320.	796.
01055	MANGANESE, TOTAL (UG/L AS MN)	06/06/66-02/26/79	10	25.	45.5	140.	5.	2424.722	49.241	5.5	10.	70.	139.

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Annual Analysis for 1977 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	54	10.	10.417	18.	4.	17.752	4.213	5.	6.	13.25	16.75
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	54	6250.	6412.037	15000.	1700.	5554050.489	2356.703	3500.	4950.	8025.	9000.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/04/66-06/17/80	11	5.6	5.1	9.3	1.7	4.902	2.214	1.88	3.5	6.2	8.92
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/66-06/17/80	11	5.	5.364	8.	3.	2.055	1.433	3.2	4.	6.	7.8
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	01/28/74-09/19/77	10	14.5	14.6	24.	5.	44.489	6.67	5.2	9.25	22.	23.8
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/66-06/17/80	11	21.	22.	25.	20.	3.8	1.949	20.	20.	24.	25.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	10	8.05	8.2	10.5	5.7	3.007	1.734	5.75	6.725	10.025	10.46
00335	COD, .025N K2CR2O7 MG/L	01/28/74-02/26/79	11	2.	2.955	12.	0.5	10.573	3.252	0.5	0.5	4.	10.4
00400	PH (STANDARD UNITS)	05/04/66-04/29/88	11	6.4	6.227	7.1	4.1	0.646	0.804	4.46	6.	6.8	7.04
00400	CONVERTED PH (STANDARD UNITS)	05/04/66-04/29/88	11	6.4	5.114	7.1	4.1	2.009	1.418	4.46	6.	6.8	7.04
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/66-04/29/88	11	0.398	7.69	79.433	0.079	566.327	23.798	0.095	0.158	1.	63.798
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/04/66-06/17/80	11	6.	6.273	9.	0.	6.018	2.453	1.	6.	8.	9.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/04/66-06/17/80	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	05/04/66-06/17/80	11	0.04	0.062	0.19	0.005	0.003	0.056	0.008	0.02	0.11	0.176
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/04/66-06/17/80	11	0.01	0.016	0.05	0.005	0.	0.016	0.005	0.005	0.02	0.048
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/74-06/17/80	11	0.2	0.199	0.31	0.07	0.005	0.069	0.078	0.18	0.23	0.306
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/66-06/17/80	11	0.01	0.014	0.03	0.01	0.	0.007	0.01	0.01	0.02	0.028
01045	IRON, TOTAL (UG/L AS FE)	05/04/66-02/26/79	11	200.	251.818	510.	80.	19096.364	138.19	86.	160.	400.	492.
01055	MANGANESE, TOTAL (UG/L AS MN)	06/06/66-02/26/79	11	30.	42.273	150.	5.	1676.818	40.949	6.	10.	50.	134.

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Annual Analysis for 1978 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	47	7.	9.17	18.	5.	19.449	4.41	5.	5.	13.	17.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	47	6000.	6159.574	9800.	1900.	5468112.858	2338.4	2680.	4200.	8700.	9000.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/04/66-06/17/80	4	1.6	2.15	4.4	1.	2.33	1.526	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/66-06/17/80	4	6.5	6.25	7.	5.	0.917	0.957	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/66-06/17/80	4	27.	29.25	41.	22.	77.583	8.808	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	4	8.2	7.825	9.6	5.3	4.576	2.139	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	01/28/74-02/26/79	4	2.	1.625	2.	0.5	0.563	0.75	**	**	**	**
00400	PH (STANDARD UNITS)	05/04/66-04/29/88	4	6.5	6.45	6.8	6.	0.117	0.342	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/04/66-04/29/88	4	6.489	6.345	6.8	6.	0.131	0.362	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/66-04/29/88	4	0.325	0.452	1.	0.158	0.143	0.378	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/04/66-06/17/80	4	7.	7.25	9.	6.	1.583	1.258	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/04/66-06/17/80	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	05/04/66-06/17/80	3	0.02	0.037	0.07	0.02	0.001	0.029	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/04/66-06/17/80	3	0.02	0.023	0.04	0.01	0.	0.015	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/74-06/17/80	3	0.19	0.23	0.37	0.13	0.016	0.125	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/66-06/17/80	3	0.01	0.012	0.02	0.005	0.	0.008	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/04/66-02/26/79	4	145.	152.5	270.	50.	8558.333	92.511	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/06/66-02/26/79	4	40.	37.5	60.	10.	491.667	22.174	**	**	**	**

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Annual Analysis for 1979 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	46	10.	10.37	20.	5.	15.405	3.925	6.	7.	14.25	15.3
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	46	7250.	7190.217	9500.	3200.	3439291.063	1854.533	4320.	5950.	9000.	9030.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/04/66-06/17/80	6	3.4	6.467	25.	0.5	85.199	9.23	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/66-06/17/80	6	6.	6.667	10.	5.	4.267	2.066	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/66-06/17/80	6	22.	22.333	28.	19.	13.067	3.615	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	5	9.1	9.22	11.5	7.1	3.272	1.809	**	**	**	**

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Annual Analysis for 1979 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00335	COD, .025N K2CR2O7 MG/L	01/28/74-02/26/79	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/04/66-04/29/88	6	5.9	6.05	7.1	5.5	0.319	0.565	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/04/66-04/29/88	6	5.9	5.855	7.1	5.5	0.365	0.604	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/66-04/29/88	6	1.259	1.398	3.162	0.079	1.167	1.08	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/04/66-06/17/80	6	6.5	6.5	8.	5.	1.1	1.049	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/04/66-06/17/80	6	0.	0.	0.	0.	0.	0.	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	05/04/66-06/17/80	6	0.055	0.055	0.12	0.005	0.002	0.047	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/04/66-06/17/80	6	0.03	0.03	0.08	0.005	0.001	0.027	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/74-06/17/80	6	0.16	0.147	0.2	0.09	0.002	0.04	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/66-06/17/80	6	0.01	0.013	0.03	0.005	0.	0.009	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/04/66-02/26/79	1	160.	160.	160.	160.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/06/66-02/26/79	1	30.	30.	30.	30.	0.	0.	**	**	**	**

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Annual Analysis for 1980 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	44	10.	10.943	18.	6.	10.491	3.239	7.	8.	13.	16.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	44	6650.	6197.727	8900.	1900.	3882901.691	1970.508	2800.	5025.	7962.5	8550.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/04/66-06/17/80	4	2.7	2.625	4.	1.1	1.736	1.318	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/66-06/17/80	4	6.	7.	13.	3.	20.667	4.546	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/66-06/17/80	4	23.	23.25	25.	22.	2.25	1.5	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	4	10.4	10.325	10.7	9.8	0.169	0.411	**	**	**	**
00400	PH (STANDARD UNITS)	05/04/66-04/29/88	4	6.3	6.325	6.5	6.2	0.022	0.15	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/04/66-04/29/88	4	6.289	6.306	6.5	6.2	0.023	0.152	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/66-04/29/88	4	0.515	0.494	0.631	0.316	0.026	0.162	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/04/66-06/17/80	3	7.	6.667	8.	5.	2.333	1.528	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/04/66-06/17/80	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	05/04/66-06/17/80	4	0.035	0.036	0.07	0.005	0.001	0.027	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/04/66-06/17/80	4	0.025	0.033	0.06	0.02	0.	0.019	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/74-06/17/80	4	0.185	0.173	0.2	0.12	0.001	0.036	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/66-06/17/80	4	0.01	0.009	0.01	0.005	0.	0.003	**	**	**	**

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Annual Analysis for 1981 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	25	7.	9.32	18.	5.	17.06	4.13	5.6	6.	12.5	17.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	25	4500.	4652.	9000.	800.	3605100.	1898.71	2200.	3600.	5600.	8120.

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Annual Analysis for 1982 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	40	10.5	11.05	18.	6.	13.69	3.7	7.	7.25	14.	16.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	40	5850.	7660.	73000.	700.	118098871.795	10867.33	3000.	4250.	8575.	9000.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	1	10.2	10.2	10.2	10.2	0.	0.	**	**	**	**

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Annual Analysis for 1983 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	28	9.	9.714	15.	7.	5.619	2.37	7.	8.	11.	14.1
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	28	6000.	6057.143	9000.	3300.	2746243.386	1657.179	3940.	4575.	7500.	8600.

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Annual Analysis for 1984 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	12	14.25	14.708	19.	11.	8.748	2.958	11.15	11.75	17.75	18.85
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	12	5725.	5345.833	8400.	1900.	3866117.424	1966.244	2095.	3662.5	6787.5	7995.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	12	6.45	6.942	9.8	4.8	3.099	1.76	4.89	5.425	8.475	9.77

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Annual Analysis for 1985 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	18	13.	13.111	20.	5.5	21.046	4.588	6.85	8.5	17.375	19.55
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	18	4675.	4558.333	9200.	600.	4596544.118	2143.955	1185.	2875.	6075.	6950.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	18	7.3	7.367	10.4	4.1	4.911	2.216	4.19	5.05	9.45	10.13

** - Less 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 GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	18	11.	11.456	17.	7.	12.247	3.5	7.18	8.375	14.875	17.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	18	3100.	3458.333	8700.	800.	4008308.824	2002.076	1160.	1975.	4950.	6180.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	18	8.95	8.278	12.4	4.3	4.057	2.014	5.02	6.65	9.575	10.33

** - Less 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 GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	18	11.75	12.	17.	8.	9.294	3.049	8.	8.875	14.25	17.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	18	4400.	4127.778	5900.	1100.	2613888.889	1616.753	1550.	2925.	5650.	5900.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	18	7.7	7.767	10.1	4.5	3.209	1.791	4.5	6.65	9.3	10.1

** - 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 1988 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	14	8.75	9.979	15.	7.5	7.368	2.714	7.5	7.65	12.25	14.75
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	13	3000.	4238.462	8600.	1200.	5775897.436	2403.31	1640.	2550.	5950.	8600.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	14	8.8	8.564	11.4	5.3	2.709	1.646	5.9	7.325	9.825	10.75
00400	PH (STANDARD UNITS)	05/04/66-04/29/88	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/04/66-04/29/88	1	6.6	6.6	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

Annual Analysis for 1988 - Station GRSM0057

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	05/04/66-04/29/88	1	0.251	0.251	0.251	0.251	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 1989 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	17	15.	14.353	18.	9.5	11.368	3.372	9.5	11.	17.5	18.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	17	5500.	5747.059	8200.	1800.	3126397.059	1768.162	2680.	5250.	7650.	7960.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	17	7.9	7.865	10.1	5.4	2.349	1.533	5.56	6.5	9.3	10.02

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

Annual Analysis for 1990 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	5	17.5	17.2	19.5	14.	4.075	2.019	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	5	7900.	6940.	8300.	2900.	5223000.	2285.388	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	5	5.5	6.	8.1	4.6	1.98	1.407	**	**	**	**

** - Less 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 GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	15	15.5	14.567	19.	8.5	13.924	3.731	8.5	12.	18.	19.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	15	4350.	4180.	6700.	1900.	2731357.143	1652.682	1960.	2750.	5500.	6400.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	15	7.4	7.347	10.	4.6	3.444	1.856	4.6	5.8	8.8	9.88

** - 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 box-and-whisker plot

Annual Analysis for 1992 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	12	11.75	12.292	17.	9.5	5.521	2.35	9.65	10.25	14.	16.55
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	12	4850.	4458.333	8100.	1700.	4059015.152	2014.7	1790.	2350.	5575.	7740.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	12	8.85	8.325	10.3	5.2	2.646	1.627	5.38	7.	9.6	10.15

** - Less 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 GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	10	9.8	10.33	13.1	8.5	2.273	1.508	8.55	9.3	11.9	13.01
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	10	2950.	3445.	5400.	1600.	1938027.778	1392.131	1670.	2412.5	5225.	5390.
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	10	9.35	9.31	10.4	8.4	0.443	0.666	8.42	8.6	9.8	10.37

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

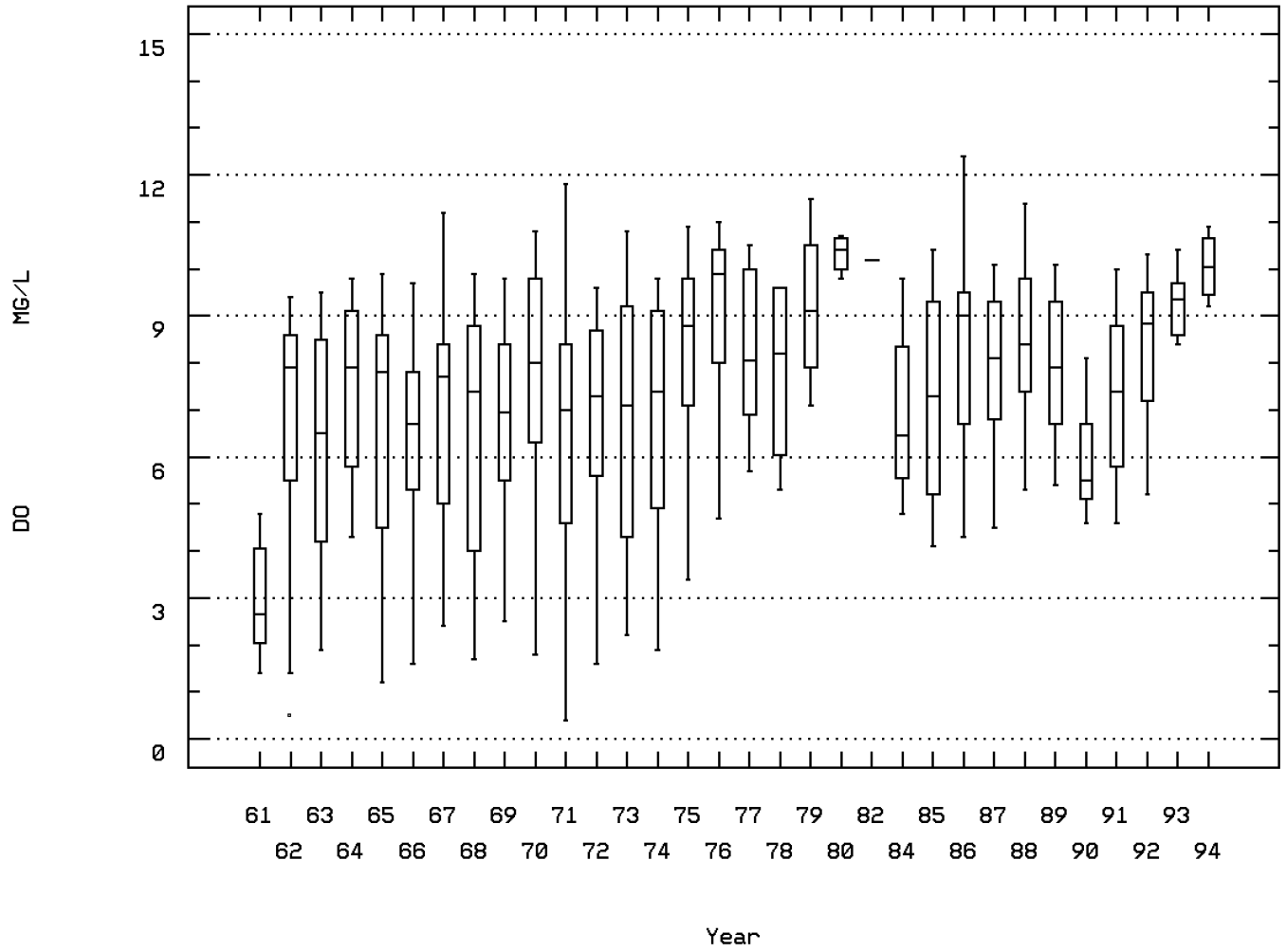
Annual Analysis for 1994 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	4	10.55	11.875	17.4	9.	14.476	3.805	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	4	2150.	2562.5	4800.	1150.	2648958.333	1627.562	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	4	10.05	10.05	10.9	9.2	0.563	0.751	**	**	**	**

** - Less 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: GRSM0057 Parameter Code: 00300

OXYGEN, DISSOLVED



FONTANA DAM SCROLL CASE

Seasonal Analysis for Season #1: 10/01 to 3/31 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	557	11.	11.342	21.	4.	20.56	4.534	6.	7.	16.	18.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	387	6000.	6462.499	93000.	0.	37304969.66	6107.779	2680.	4500.	7850.	9000.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/04/66-06/17/80	31	4.2	4.855	15.	1.1	8.663	2.943	1.76	2.8	6.	8.86
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/66-06/17/80	31	7.	8.29	20.	3.	22.546	4.748	3.	5.	10.	19.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/66-06/17/80	31	24.	26.	41.	20.	28.2	5.31	21.	22.	29.	35.8
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	412	7.4	6.818	11.8	0.4	7.596	2.756	2.6	4.6	9.3	10.
00310	BOD, 5 DAY, 20 DEG C MG/L	05/04/66-06/17/80	9	1.	1.089	2.4	0.5	0.381	0.617	0.5	0.5	1.4	2.4
00400	PH (STANDARD UNITS)	05/04/66-04/29/88	31	6.4	6.423	7.4	4.9	0.22	0.47	5.94	6.2	6.7	7.1
00400	CONVERTED PH (STANDARD UNITS)	05/04/66-04/29/88	31	6.4	6.068	7.4	4.9	0.35	0.592	5.94	6.2	6.7	7.1
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/66-04/29/88	31	0.398	0.855	12.589	0.04	4.892	2.212	0.079	0.2	0.631	1.166
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/04/66-06/17/80	31	7.	6.903	10.	1.	3.624	1.904	5.	6.	8.	9.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/04/66-06/17/80	31	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/28/74-06/17/80	27	2.	2.13	9.	0.5	3.954	1.988	0.5	0.5	3.	5.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	05/04/66-06/17/80	31	0.07	0.088	0.31	0.005	0.004	0.066	0.02	0.04	0.12	0.184
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/04/66-06/17/80	31	0.04	0.069	0.26	0.005	0.005	0.07	0.01	0.02	0.09	0.212
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/74-06/17/80	28	0.2	0.249	0.49	0.09	0.014	0.12	0.119	0.16	0.36	0.432
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/66-06/17/80	31	0.01	0.02	0.166	0.005	0.001	0.029	0.01	0.01	0.02	0.03
00916	CALCIUM, TOTAL (MG/L AS CA)	10/24/66-02/26/79	26	2.	1.915	3.4	0.5	0.671	0.819	0.5	1.45	2.2	3.
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/24/66-02/26/79	26	0.7	0.858	5.	0.3	0.741	0.861	0.47	0.6	0.825	1.
00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/66-06/17/80	30	2.	2.167	5.	0.5	1.23	1.109	1.	1.75	3.	3.9
00945	SULFATE, TOTAL (MG/L AS SO4)	06/06/66-06/17/80	29	2.	2.483	21.	0.5	14.687	3.832	0.5	0.5	3.	4.
01045	IRON, TOTAL (UG/L AS FE)	05/04/66-02/26/79	27	300.	364.815	980.	70.	55102.849	234.74	124.	200.	410.	836.
01055	MANGANESE, TOTAL (UG/L AS MN)	06/06/66-02/26/79	27	60.	94.444	420.	10.	7856.41	88.636	28.	40.	140.	184.
01092	ZINC, TOTAL (UG/L AS ZN)	01/30/67-06/17/80	10	30.	49.	210.	5.	3648.889	60.406	5.	16.25	55.	196.
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	05/04/66-02/26/79	26	8.	8.115	26.	2.	21.046	4.588	2.35	6.75	10.	12.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/28/74-06/17/80	27	20.	37.778	230.	10.	2541.026	50.409	10.	20.	30.	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: 4/01 to 9/30 - Station GRSM0057

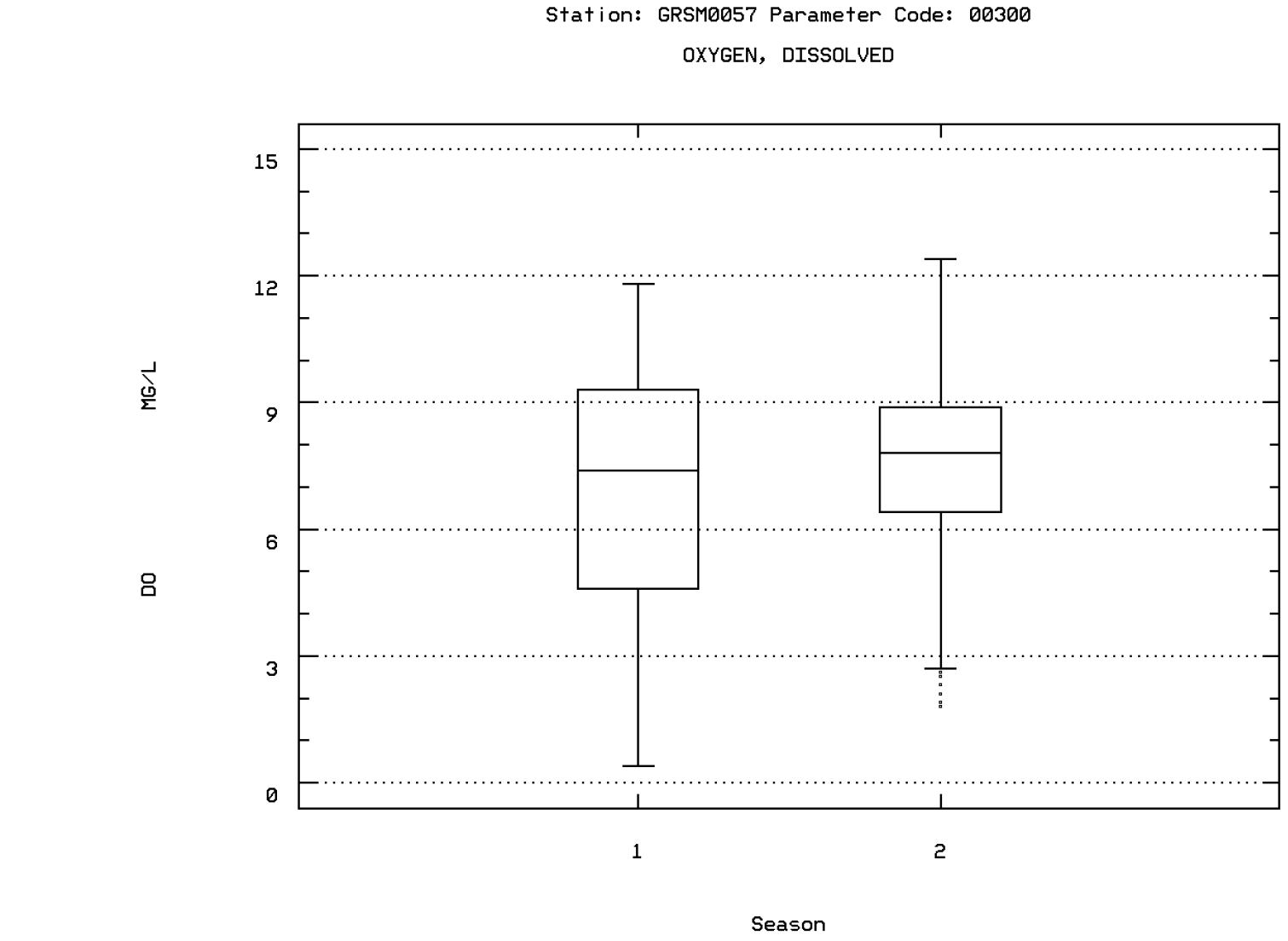
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	598	10.	10.665	20.	4.	10.993	3.316	7.	8.	13.	16.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	449	5700.	5877.67	87000.	45.	24500886.021	4949.837	2600.	4000.	7250.	8500.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/04/66-06/17/80	37	3.1	4.216	25.	0.5	18.58	4.31	0.5	1.7	5.65	8.26
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/66-06/17/80	37	5.	7.392	20.	1.	24.377	4.937	1.	5.	10.	15.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/66-06/17/80	37	22.	24.811	47.	19.	47.213	6.871	20.	20.	25.	36.8
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	455	7.8	7.438	12.4	1.8	3.83	1.957	4.5	6.4	8.9	9.7
00310	BOD, 5 DAY, 20 DEG C MG/L	05/04/66-06/17/80	11 ##	0.5	0.809	1.8	0.5	0.219	0.468	0.5	0.5	1.2	1.72
00400	PH (STANDARD UNITS)	05/04/66-04/29/88	38	6.3	6.197	7.2	4.1	0.258	0.508	5.5	6.	6.425	6.71
00400	CONVERTED PH (STANDARD UNITS)	05/04/66-04/29/88	38	6.3	5.54	7.2	4.1	0.701	0.838	5.5	6.	6.425	6.71
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/66-04/29/88	38	0.501	2.882	79.433	0.063	163.389	12.782	0.195	0.378	1.	3.162
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/04/66-06/17/80	36	6.	7.083	46.	0.	48.421	6.959	4.	5.	7.75	8.3
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/04/66-06/17/80	36	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/28/74-06/17/80	28 ##	0.5	0.839	2.	0.5	0.334	0.578	0.5	0.5	1.	2.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	05/04/66-06/17/80	36	0.045	0.057	0.19	0.005	0.002	0.049	0.009	0.02	0.075	0.153
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/04/66-06/17/80	36	0.02	0.03	0.24	0.005	0.002	0.045	0.005	0.005	0.03	0.053
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/74-06/17/80	31	0.2	0.25	0.47	0.07	0.013	0.114	0.152	0.18	0.31	0.448
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/66-06/17/80	36	0.01	0.013	0.033	0.005	0.	0.007	0.005	0.01	0.02	0.023
00916	CALCIUM, TOTAL (MG/L AS CA)	10/24/66-02/26/79	23	2.	2.2	7.	1.	1.36	1.166	1.	2.	2.	3.
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/24/66-02/26/79	23	0.6	0.587	1.	0.4	0.013	0.114	0.5	0.5	0.6	0.7
00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/66-06/17/80	33	2.	2.212	5.	0.5	0.907	0.952	1.	2.	3.	3.6
00945	SULFATE, TOTAL (MG/L AS SO4)	06/06/66-06/17/80	30	1.	1.55	6.	0.5	1.989	1.41	0.5	0.5	2.	2.9
01045	IRON, TOTAL (UG/L AS FE)	05/04/66-02/26/79	32	140.	175.938	510.	50.	10373.286	101.849	66.	110.	230.	311.
01055	MANGANESE, TOTAL (UG/L AS MN)	06/06/66-02/26/79	30	20.	29.	80.	5.	550.69	23.467	5.	10.	42.5	70.
01092	ZINC, TOTAL (UG/L AS ZN)	01/30/67-06/17/80	9	30.	46.111	140.	5.	2198.611	46.889	5.	15.	75.	140.
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	05/04/66-02/26/79	28	7.	8.	20.	5.	8.667	2.944	5.	7.	8.75	11.1

** - 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: 4/01 to 9/30 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/28/74-06/17/80	28	20.	25.714	80.	10.	232.804	15.258	10.	20.	30.	42.

** - Less 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



FONTANA DAM SCROLL CASE

Station Inventory for Station: GRSM0058

NPS Station ID: GRSM0058
LAT/LON: 35.451392/ -83.804726
Agency: 131TVAC
Date Created: 10/27/90
Location: FONTANA DAM SCROLL CASE
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 360116X
RMI-Indexes: 1021500 007720 00920 8540
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 601.10 061.00
HUC: 06010202
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 61.0
ECO Region:
RF1 Index: 06010202
RF1 Mile Point: 0.000
Distance from RF1: 0.60
On/Off RF1:
RF3 Index: 06010204002902.20
RF3 Mile Point: 2.20
Distance from RF3: 0.01
On/Off RF3:
Description:
THE SAMPLES COLLECTED AT THIS STATION WERE SHIPPED TO THE ENVIRONMENTAL CHEMISTRY LABORATORY IN CHATTANOOGA IN PLASTIC SHIPPING CONTAINERS FOR ANALYSES. IT IS NOW DOCUMENTED THAT THE DISSOLVED OXYGEN CONCENTRATIONS MEASURED WERE TOO LOW DUE TO THE USE OF THE PLASTIC CONTAINERS. BECAUSE THE ERROR IS VARIABLE, AND THE INDIVIDUAL MEASUREMENTS CANNOT BE

Parameter Inventory for Station: GRSM0058

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: GRSM0059

NPS Station ID: GRSM0059 LAT/LON: 35.452781/ -83.948337 Agency: 21NC01WQ Date Created: / /
Location: LITTLE TENNESSEE R BELOW TAPOCO INACT-741127 FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): G9990000 /LTN039
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 06010204 Depth of Water: 999 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010204020 RF1 Mile Point: 13.380 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010204002013.24 RF3 Mile Point: 13.24 Distance from RF3: 0.05 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0059

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-11/27/74	7	14.	14.857	21.	12.	8.476	2.911	**	**	**	**
00023	SAMPLE WEIGHT IN POUNDS	06/20/68-11/27/74	7	14.	14.857	21.	12.	8.476	2.911	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	08/14/68-08/24/71	5	6561.	6214.2	7929.	3635.	2627647.2	1621.002	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/27/74-11/27/74	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/20/68-11/27/74	8	8.35	8.	10.6	3.7	4.629	2.151	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-11/27/74	8	81.5	77.25	100.	41.	349.071	18.683	**	**	**	**
00400	PH (STANDARD UNITS)	06/20/68-11/27/74	8	6.35	6.338	6.7	5.8	0.08	0.283	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-11/27/74	8	6.347	6.249	6.7	5.8	0.089	0.298	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-11/27/74	8	0.45	0.564	1.585	0.2	0.196	0.443	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-11/27/74	7	7.	6.714	10.	4.	3.905	1.976	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-11/27/74	7	0.	0.	0.	0.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	10/15/69-10/15/69	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	10/15/69-10/15/69	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/25/73-11/27/74	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	06/25/73-11/27/74	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	06/20/68-11/27/74	8	8.35	8.	10.6	3.7	4.629	2.151	**	**	**	**
00740	SULFITE (MG/L AS SO3)	06/25/73-11/27/74	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	06/25/73-11/27/74	2	247.5	247.5	270.	225.	1012.5	31.82	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/25/73-11/27/74	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	06/25/73-11/27/74	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	08/14/68-06/25/73	4 ##	120.	936.25	3500.	5.	2927456.25	1710.981	**	**	**	**
01132	LITHIUM, TOTAL (UG/L AS LI)	06/25/73-11/27/74	2	72.5	72.5	95.	50.	1012.5	31.82	**	**	**	**
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	10/15/69-10/15/69	1	400.	400.	400.	400.	0.	0.	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	10/15/69-10/15/69	1	2.602	2.602	2.602	2.602	0.	0.	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			400.								
31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	06/20/68-11/27/74	8	6.	6.375	7.	6.	0.268	0.518	**	**	**	**
31508	LOG COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	06/20/68-11/27/74	8	0.778	0.803	0.845	0.778	0.001	0.035	**	**	**	**
31508	GM COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	GEOMETRIC MEAN =			6.357								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/14/68-06/25/73	4 ##	120.	936.25	3500.	5.	2927456.25	1710.981	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/14/68-06/25/73	4 ##	1.989	2.055	3.544	0.699	1.411	1.188	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			113.551								
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/25/73-11/27/74	2	0.5	0.5	1.	0.	0.5	0.707	**	**	**	**
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/20/68-11/27/74	8	81.5	77.25	100.	41.	349.071	18.683	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/25/73-11/27/74	2	52.5	52.5	95.	10.	3612.5	60.104	**	**	**	**

** - Less 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: GRSM0059

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a 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.	8	1	0.13	2	1	0.50	6	0	0.00						
00400	PH	Other-Hi Lim.	9.	8	0	0.00	2	0	0.00	6	0	0.00						
		Other-Lo Lim.	6.5	8	6	0.75	2	2	1.00	6	4	0.67						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	50.	2	2	1.00	1	1	1.00	1	1	1.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	1300.	2	0	0.00	1	0	0.00	1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	2 &	2	1.00				2	2	1.00						
		Drinking Water	50.	3 &	2	0.67				3	2	0.67						
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	1	0	0.00	1	0	0.00									
31508	COLIFORM, TOTAL, MPN, COMP. TEST, TUBE C	Other-Hi Lim.	1000.	8	0	0.00	2	0	0.00	6	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	4	1	0.25				4	1	0.25						

& - 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: GRSM0060

NPS Station ID: GRSM0060 | LAT/LON: 35.453615/ -83.804448 | Agency: 11EPALES | Date Created: / /
Location: FONTANA LAKE | FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE | STORET Station ID(s): 370401
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 06010204 | Depth of Water: 300 | Aquifer:
Major Basin: | Elevation: 0 | Water Body Id:
Minor Basin: | ECO Region:
RF1 Index: 06010204 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 06010203000700.90 | RF3 Mile Point: 0.90 | Distance from RF3: 0.01 | On/Off RF3:
Description:
NEAR DAM, ABOUT 75 YDS FROM SAME, ABOUT 1/3 DISTANCE FROM SOUTHEAST END. MILE 61 1/10 LITTLE TENNESSEE RIVER
COMMENTS: 6-2, FORRELL 11; ONE PER CENT LIGHT AT 27 FT; CHANNEL A OFFSET EQUAL -21.11,+79.11; ALGAE SAMPLE TAKEN FROM 27 FT. 8-21 ULE 12, VERY CLEAR GREEN, NO SURFACE ALGAE OR HIGHER AQUATICS; 1% LIGHT AT 42 FT;

Parameter Inventory for Station: GRSM0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/02/73-10/26/73	31	19.6	18.677	26.8	10.2	19.024	4.362	11.12	16.6	20.5	25.62
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	06/02/73-10/26/73	31	96.	93.29	98.	86.	23.413	4.839	86.	88.	98.	98.
00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/02/73-10/26/73	3	168.	152.	180.	108.	1488.	38.575	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/21/73-10/26/73	21	26.	24.714	28.	18.	8.614	2.935	20.	22.5	27.	27.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/02/73-06/02/73	10	40.	39.8	61.	25.	143.289	11.97	25.	25.	47.75	59.9
00300	OXYGEN, DISSOLVED MG/L	06/02/73-10/26/73	28	5.3	5.821	9.	1.8	4.897	2.213	3.07	4.05	8.075	8.46
00400	PH (STANDARD UNITS)	06/02/73-10/26/73	31	6.6	6.671	8.2	5.9	0.301	0.549	6.04	6.3	6.9	7.62
00400	CONVERTED PH (STANDARD UNITS)	06/02/73-10/26/73	31	6.6	6.447	8.2	5.9	0.353	0.594	6.04	6.3	6.9	7.62
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/02/73-10/26/73	31	0.251	0.357	1.259	0.006	0.098	0.313	0.026	0.126	0.501	0.926
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/02/73-10/26/73	29 ##	5.	5.862	14.	5.	5.195	2.279	5.	5.	5.	10.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/02/73-10/26/73	29	0.08	0.107	0.4	0.02	0.009	0.094	0.03	0.045	0.14	0.21
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/02/73-10/26/73	29 ##	0.1	0.207	0.7	0.1	0.031	0.175	0.1	0.1	0.35	0.5
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/02/73-10/26/73	29	0.63	0.569	0.87	0.2	0.031	0.176	0.22	0.41	0.68	0.71
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/02/73-10/26/73	29	0.007	0.008	0.014	0.005	0.	0.002	0.006	0.006	0.01	0.011
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/02/73-10/26/73	29	0.007	0.007	0.011	0.001	0.	0.002	0.003	0.006	0.008	0.01
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	06/02/73-10/26/73	3	2.3	2.4	3.6	1.3	1.33	1.153	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	06/02/73-10/26/73	3	210.	236.667	300.	200.	3033.333	55.076	**	**	**	**

** - Less 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: GRSM0060

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	28	7	0.25	10	5	0.50	18	2	0.11						
00400	PH	Other-Hi Lim.	9.	31	0	0.00	11	0	0.00	20	0	0.00						
		Other-Lo Lim.	6.5	31	14	0.45	11	11	1.00	20	3	0.15						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	29	0	0.00	11	0	0.00	18	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: GRSM0061

NPS Station ID: GRSM0061
LAT/LON: 35.458338/ -83.805005
Agency: 131TVAC
Date Created: 11/27/82
Location: FONTANA RESERVOIR
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370060
RMI-Indexes: 1021500 007720 00920 8540
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 061.01
HUC: 06010202
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 61.01
ECO Region:
RF1 Index: 06010202009
RF1 Mile Point: 2.650
Distance from RF1: 2.60
On/Off RF1: OFF
RF3 Index: 06010203011000.00
RF3 Mile Point: 1.97
Distance from RF3: 0.14
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0061

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/19/82-04/29/88	173	7.3	9.612	21.5	5.6	22.705	4.765	6.	6.3	10.9	19.5
00078	TRANSPARENCY, SECCHI DISC (METERS)	04/29/88-04/29/88	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	10/19/82-10/19/82	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	10/19/82-10/19/82	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/19/82-04/29/88	95	25.	24.105	27.	20.	5.691	2.386	20.	25.	26.	26.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/82-10/19/82	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	10/19/82-04/29/88	173	9.5	9.333	11.1	3.1	2.459	1.568	6.84	8.9	10.6	10.9
00400	PH (STANDARD UNITS)	10/19/82-04/29/88	95	6.	6.063	7.	5.7	0.043	0.206	5.8	6.	6.1	6.3
00400	CONVERTED PH (STANDARD UNITS)	10/19/82-04/29/88	95	6.	6.024	7.	5.7	0.044	0.21	5.8	6.	6.1	6.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/82-04/29/88	95	1.	0.947	1.995	0.1	0.134	0.366	0.501	0.794	1.	1.585
00403	PH, LAB, STANDARD UNITS SU	10/19/82-10/19/82	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/19/82-10/19/82	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/82-10/19/82	1	0.251	0.251	0.251	0.251	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/19/82-10/19/82	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	10/19/82-10/19/82	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	10/19/82-10/19/82	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	10/19/82-10/19/82	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/19/82-10/19/82	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/82-10/19/82	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/19/82-10/19/82	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/19/82-10/19/82	1	0.55	0.55	0.55	0.55	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	10/19/82-10/19/82	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/19/82-10/19/82	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/19/82-10/19/82	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
32023	ACIDS, STRONG	10/19/82-10/19/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024	ACIDS, WEAK	10/19/82-10/19/82	1	60.	60.	60.	60.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	10/19/82-10/19/82	1	6.	6.	6.	6.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/19/82-10/19/82	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	10/19/82-10/19/82	1	800.	800.	800.	800.	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: GRSM0061

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	173	1	0.01	23	1	0.04	150	0	0.00						
00400	PH	Other-Hi Lim.	9.	95	0	0.00	23	0	0.00	72	0	0.00						
		Other-Lo Lim.	6.5	95	92	0.97	23	23	1.00	72	69	0.96						
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									
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
82295	CHLORIDE DISSOLVED AS CL IN WATER	Fresh Acute	860000.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0062

NPS Station ID: GRSM0062
LAT/LON: 35.458338/ -83.805005
Agency: 131TVAC
Date Created: 07/09/94
Location: FONTANA DAM TAILRACE
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370183
RMI-Indexes: 1021500 007720 00920 8540
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 060.99
HUC: 06010202
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 60.99
ECO Region:
RF1 Index: 06010202009
RF1 Mile Point: 2.650
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010201002800.00
RF3 Mile Point: 2.05
Distance from RF3: 0.10
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0062

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: GRSM0063

NPS Station ID: GRSM0063 LAT/LON: 35.458338/ -83.809726 Agency: 21NC01WQ Date Created: 02/24/76
Location: FONTANA LAKE AT FONTANA DAM INACT-790716 FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): G9291000 /LTN031J
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 06010204 Depth of Water: 999 Aquifer:
Major Basin: SE Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010202007600.00 RF3 Mile Point: 0.00 Distance from RF3: 0.11 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0063

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	58	24.	22.067	29.	9.2	31.115	5.578	11.95	18.5	27.	27.8
00023	SAMPLE WEIGHT IN POUNDS	07/16/74-07/29/75	2	27.	27.	27.	27.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/13/77-08/29/94	7	2.	3.786	17.	0.5	34.575	5.88	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	16	3.	5.925	50.	2.	138.937	11.787	2.	2.125	3.95	18.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/05/87-08/29/94	40	16.	13.65	21.	1.	26.951	5.191	4.1	11.75	17.	17.9
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-07/16/79	15	21.	22.867	32.	15.	24.124	4.912	17.4	20.	26.	31.4
00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	08/05/87-08/05/87	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	59	8.	7.853	10.8	5.6	1.46	1.208	5.9	7.1	8.5	9.4
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/16/74-07/20/77	4	105.	108.5	124.	100.	129.	11.358	**	**	**	**
00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	07/16/74-07/29/75	2	26.5	26.5	31.	22.	40.5	6.364	**	**	**	**
00400	PH (STANDARD UNITS)	07/29/75-08/29/94	57	7.3	7.265	8.8	5.7	0.714	0.845	5.9	6.6	8.	8.22
00400	CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	57	7.3	6.558	8.8	5.7	1.223	1.106	5.9	6.6	8.	8.22
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	57	0.05	0.277	1.995	0.002	0.257	0.507	0.006	0.01	0.251	1.259
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/29/75-07/31/79	16	6.	6.563	10.	6.	1.063	1.031	6.	6.	7.	7.9
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/75-07/31/79	14	0.	0.143	1.	0.	0.132	0.363	0.	0.	0.	1.
00500	RESIDUE, TOTAL (MG/L)	08/05/87-08/29/94	2	41.5	41.5	47.	36.	60.5	7.778	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/29/75-07/29/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	2 ##	0.138	0.138	0.25	0.025	0.025	0.159	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/05/87-08/29/94	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	07/29/75-07/29/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	9 ##	0.025	0.036	0.08	0.005	0.001	0.024	0.005	0.025	0.055	0.08
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	9	0.2	0.233	0.6	0.1	0.03	0.173	0.1	0.1	0.35	0.6
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	9 ##	0.025	0.057	0.17	0.025	0.003	0.052	0.025	0.025	0.095	0.17
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/29/75	2	8.5	8.5	8.9	8.1	0.32	0.566	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/29/75-07/29/75	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-08/29/94	9 ##	0.025	0.024	0.05	0.005	0.	0.012	0.005	0.018	0.025	0.05
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	07/16/74-07/29/75	2 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00740	SULFITE (MG/L AS SO3)	07/29/75-07/29/75	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/29/75	2	165.	165.	270.	60.	22050.	148.492	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	07/07/77-07/31/79	5 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/29/75-07/31/79	7 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/29/75	2	3.	3.	6.	0.	18.	4.243	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-07/31/79	7 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	07/29/75-07/31/79	7 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/29/75	2 ##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/16/74-07/31/79	8 ##	20.	56.25	170.	20.	4512.5	67.175	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	07/29/75-07/31/79	7 ##	50.	53.571	100.	25.	505.952	22.493	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	07/16/74-07/31/79	8 ##	50.	50.	50.	50.	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: GRSM0063

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01055	MANGANESE, TOTAL (UG/L AS MN)	07/29/75-07/31/79	7 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/29/75	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/16/74-07/31/79	8 ##	25.	56.25	150.	25.	3348.214	57.864	**	**	**	**
01132	LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/29/75	2	32.5	32.5	35.	30.	12.5	3.536	**	**	**	**
31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	1	7.	7.	7.	7.	0.	0.	**	**	**	**
31508	LOG COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	1	0.845	0.845	0.845	0.845	0.	0.	**	**	**	**
31508	GM COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	GEOMETRIC MEAN =			7.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-07/31/79	17 ##	2.5	3.324	9.	0.5	5.904	2.43	0.5	0.5	5.	5.8
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-07/31/79	17 ##	0.398	0.349	0.954	-0.301	0.209	0.457	-0.301	-0.301	0.699	0.75
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			2.234								
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/05/87-08/29/94	2	2.	2.	3.	1.	2.	1.414	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	04/04/77-07/02/79	4 ##	10.	11.25	20.	5.	56.25	7.5	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/29/75-07/02/79	5	5.	6.8	13.	0.	27.2	5.215	**	**	**	**
32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/05/87-08/29/94	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/05/87-08/29/94	2	2.	2.	3.	1.	2.	1.414	**	**	**	**
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-07/02/79	6	13.5	41.167	110.	5.	2470.167	49.701	**	**	**	**
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	6 ##	2.5	9.5	30.	2.5	134.5	11.597	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/74-07/29/75	3	50.	58.333	75.	50.	208.333	14.434	**	**	**	**
70305	SALINITY BASED ON CONDUCTIVITY	07/16/74-07/29/75	2	0.35	0.35	0.7	0.	0.245	0.495	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-08/05/87	5 ##	0.025	0.021	0.025	0.005	0.	0.009	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	07/16/74-07/31/79	8 ##	0.25	0.266	0.6	0.025	0.024	0.156	**	**	**	**

** - Less 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: GRSM0063

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	7	0	0.00				7	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	59	0	0.00				59	0	0.00						
00400	PH	Other-Hi Lim.	9.	57	0	0.00				57	0	0.00						
		Other-Lo Lim.	6.5	57	12	0.21				57	12	0.21						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	9	0	0.00				9	0	0.00						
00720	CYANIDE, TOTAL	Fresh Acute	0.022	2	0	0.00				2	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00				2	0	0.00						
		Drinking Water	50.	2	2	1.00				2	2	1.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	5	0	0.00				5	0	0.00						
		Drinking Water	50.	5	0	0.00				5	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	0 &	0	0.00												
		Drinking Water	5.	0 &	0	0.00												
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00				2	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	7	0	0.00				7	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00				2	0	0.00						
		Drinking Water	1300.	2	0	0.00				2	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	2 &	2	1.00				2	2	1.00						
		Drinking Water	1300.	8	0	0.00				8	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	8	0	0.00				8	0	0.00						
		Drinking Water	5.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	50.	2	0	0.00				2	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	8	2	0.25				8	2	0.25						
31508	COLIFORM, TOTAL, MPN, COMP. TEST, TUBE C	Other-Hi Lim.	1000.	1	0	0.00				1	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	17	0	0.00				17	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	8	0	0.00				8	0	0.00						
		Drinking Water	2.	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

Seasonal Analysis for Season #2: 4/01 to 9/30 - Station GRSM0063

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	58	24.	22.067	29.	9.2	31.115	5.578	11.95	18.5	27.	27.8
00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	16	3.	5.925	50.	2.	138.937	11.787	2.	2.125	3.95	18.5
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	59	8.	7.853	10.8	5.6	1.46	1.208	5.9	7.1	8.5	9.4
00400	PH (STANDARD UNITS)	07/29/75-08/29/94	57	7.3	7.265	8.8	5.7	0.714	0.845	5.9	6.6	8.	8.22
00400	CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	57	7.3	6.558	8.8	5.7	1.223	1.106	5.9	6.6	8.	8.22
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	57	0.05	0.277	1.995	0.002	0.257	0.507	0.006	0.01	0.251	1.259
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	9 ##	0.025	0.036	0.08	0.005	0.001	0.024	0.005	0.025	0.055	0.08
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	9	0.2	0.233	0.6	0.1	0.03	0.173	0.1	0.1	0.35	0.6
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	9 ##	0.025	0.057	0.17	0.025	0.003	0.052	0.025	0.025	0.095	0.17
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-08/29/94	9 ##	0.025	0.024	0.05	0.005	0.	0.012	0.005	0.018	0.025	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 box-and-whisker plot

Station Inventory for Station: GRSM0064

NPS Station ID: GRSM0064
LAT/LON: 35.458338/ -83.809726
Agency: 21NC01WQ
Date Created: 02/20/88
Location: FONTANA LAKE AT FONTANA DAM
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9291010 /LTN031JSUR
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010204
Depth of Water: 1
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 0.90
On/Off RF1:
RF3 Index: 06010204002900.00
RF3 Mile Point: 0.00
Distance from RF3: 0.11
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0064

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	08/05/87-08/05/87	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/05/87-08/05/87	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/05/87-08/05/87	1	0.251	0.251	0.251	0.251	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/05/87-08/05/87	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/05/87-08/05/87	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	08/05/87-08/05/87	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/05/87-08/05/87	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	08/05/87-08/05/87	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	08/05/87-08/05/87	1	0.57	0.57	0.57	0.57	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/05/87-08/05/87	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/05/87-08/05/87	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/05/87-08/05/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/05/87-08/05/87	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/05/87-08/05/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/05/87-08/05/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	08/05/87-08/05/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/05/87-08/05/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/05/87-08/05/87	1	50.	50.	50.	50.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/05/87-08/05/87	1 ##	0.1	0.1	0.1	0.1	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: GRSM0064

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	0 &	0	0.00												
		Drinking Water	5.	0 &	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						

& - 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: GRSM0064

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	5.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00				1	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0065

NPS Station ID: GRSM0065
LAT/LON: 35.458338/ -83.809726
Agency: 21NC01WQ
Date Created: 02/20/88
Location: FONTANA LAKE AT FONTANA DAM
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9291020 /LTN031JBOT
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010204
Depth of Water: 1
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 0.70
On/Off RF1:
RF3 Index: 06010202000100.04
RF3 Mile Point: 0.04
Distance from RF3: 0.06
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/05/87-08/29/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/05/87-08/29/94	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/05/87-08/29/94	1	0.16	0.16	0.16	0.16	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/05/87-08/29/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/05/87-08/05/87	1 ##	0.005	0.005	0.005	0.005	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: GRSM0065

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0066

NPS Station ID: GRSM0066
LAT/LON: 35.462504/ -83.955559
Agency: 21NC01WQ
Date Created: 12/03/88
Location: CALDERWOOD LAKE NR SLICKROCK CREEK
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9992000 /LTN040
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010204
Depth of Water: 1
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 3.30
On/Off RF1:
RF3 Index: 06010204003404.36
RF3 Mile Point: 4.36
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0066

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/88-08/10/94	22	14.1	13.664	16.1	12.	0.973	0.986	12.1	12.825	14.2	14.44
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/27/88-08/10/94	2	1.65	1.65	1.7	1.6	0.005	0.071	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	07/27/88-08/10/94	2	3.25	3.25	4.	2.5	1.125	1.061	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/27/88-08/10/94	22	17.5	16.818	19.	13.	3.584	1.893	13.3	15.75	18.	19.
00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	07/27/88-07/27/88	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/27/88-08/10/94	22	8.65	8.809	9.6	8.1	0.421	0.649	8.13	8.2	9.5	9.6
00400	PH (STANDARD UNITS)	07/27/88-08/10/94	22	6.85	6.809	7.3	6.4	0.088	0.297	6.4	6.5	7.1	7.2
00400	CONVERTED PH (STANDARD UNITS)	07/27/88-08/10/94	22	6.847	6.717	7.3	6.4	0.097	0.312	6.4	6.5	7.1	7.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/88-08/10/94	22	0.142	0.192	0.398	0.05	0.015	0.122	0.063	0.079	0.316	0.398
00500	RESIDUE, TOTAL (MG/L)	07/27/88-08/10/94	2	26.	26.	30.	22.	32.	5.657	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/27/88-08/10/94	2	2.5	2.5	4.	1.	4.5	2.121	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	2	0.04	0.04	0.05	0.03	0.	0.014	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-08/10/94	2	0.16	0.16	0.16	0.16	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-08/10/94	2	0.015	0.015	0.02	0.01	0.	0.007	**	**	**	**
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/88-08/10/94	2 ##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	07/27/88-08/10/94	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	07/27/88-08/10/94	2 ##	1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	1 ##	0.005	0.005	0.005	0.005	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: GRSM0066

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	2	0	0.00				2	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	22	0	0.00				22	0	0.00						
00400	PH	Other-Hi Lim.	9.	22	0	0.00				22	0	0.00						
		Other-Lo Lim.	6.5	22	6	0.27				22	6	0.27						
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

Station Inventory for Station: GRSM0067

NPS Station ID: GRSM0067
LAT/LON: 35.462504/ -83.955559
Agency: 21NC01WQ
Date Created: 12/03/88
Location: CALDERWOOD LAKE NR SLICKROCK CREEK
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9992010 /LTN040SUR
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010204
Depth of Water: 1
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 2.70
On/Off RF1:
RF3 Index: 06010204002013.24
RF3 Mile Point: 13.24
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0067

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	07/27/88-07/27/88	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/27/88-07/27/88	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/88-07/27/88	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/27/88-07/27/88	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	07/27/88-07/27/88	1	7.	7.	7.	7.	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: GRSM0067

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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

Station Inventory for Station: GRSM0068

NPS Station ID: GRSM0068
LAT/LON: 35.462504/ -83.955559
Agency: 21NC01WQ
Date Created: 12/03/88
Location: CALDERWOOD LAKE NR SLICKROCK CREEK
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9992020 /LTN040BOT
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010204
Depth of Water: 1
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 2.70
On/Off RF1:
RF3 Index: 06010204002013.24
RF3 Mile Point: 13.24
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0068

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: GRSM0069

NPS Station ID: GRSM0069
LAT/LON: 35.466115/ -83.790838
Agency: 131TVAC
Date Created: 05/05/79
Location: FONTANA RESERVOIR
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370004
RMI-Indexes: 1021500 007720 00920 8540
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 062.00
HUC: 06010202
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 62.0
ECO Region:
RF1 Index: 06010202009
RF1 Mile Point: 1.290
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010204002013.24
RF3 Mile Point: 13.24
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0069

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/25/79-10/20/94	681	12.3	13.517	27.8	5.4	39.644	6.296	6.3	7.4	19.	22.38
00019	SAMPLE WEIGHT IN GRAMS	12/01/92-11/18/93	14	836.	933.643	1524.	514.	74057.786	272.136	592.	782.	1106.5	1438.
00039	SAMPLE LENGTH IN MILLIMETERS	12/01/92-11/18/93	14	446.5	439.643	538.	341.	3851.17	62.058	345.5	372.5	498.25	521.5
00060	FLOW, STREAM, MEAN DAILY CFS	04/21/93-10/19/93	7	3388.	3775.571	5504.	1579.	1890031.286	1374.784	**	**	**	**
00062	ELEVATION, RESERVOIR SURFACE WATER IN FEET	04/21/93-10/19/93	7	1685.	1681.757	1700.9	1648.	412.863	20.319	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/25/79-09/26/79	12	1.4	1.625	3.	0.5	0.857	0.926	0.5	0.65	2.45	2.97
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/18/93-10/20/94	13	5.1	5.062	8.1	2.9	1.573	1.254	3.18	4.4	5.4	7.3
00080	COLOR (PLATINUM-COBALT UNITS)	04/25/79-09/26/79	4	4.	4.25	5.	4.	0.25	0.5	**	**	**	**
00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	04/25/79-04/25/79	43	615.	607.907	630.	575.	340.753	18.459	580.	590.	620.	630.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/21/93-10/20/94	527	21.	21.674	36.	17.	9.962	3.156	19.	19.	23.	26.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/13/79-09/26/79	104	20.	17.587	29.	5.	48.789	6.985	10.	10.	20.	26.5
00300	OXYGEN, DISSOLVED MG/L	04/25/79-10/20/94	681	8.5	8.29	11.9	0.1	4.278	2.068	5.4	7.	9.9	10.7
00310	BOD, 5 DAY, 20 DEG C MG/L	04/25/79-09/26/79	8 ##	0.5	0.863	1.9	0.5	0.297	0.545	**	**	**	**
00400	PH (STANDARD UNITS)	04/25/79-10/20/94	681	6.4	6.557	8.6	5.6	0.321	0.567	6.	6.2	6.8	7.3
00400	CONVERTED PH (STANDARD UNITS)	04/25/79-10/20/94	681	6.4	6.318	8.6	5.6	0.378	0.615	6.	6.2	6.8	7.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/25/79-10/20/94	681	0.398	0.481	2.512	0.003	0.181	0.425	0.05	0.158	0.631	1.
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/25/79-09/26/79	20	5.	5.65	17.	3.	7.818	2.796	4.	5.	6.	6.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/25/79-09/26/79	20	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/25/79-09/26/79	12	1.	1.583	4.	0.5	1.311	1.145	0.5	1.	2.75	3.7
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/25/79-08/18/94	28	0.065	0.062	0.11	0.005	0.001	0.035	0.01	0.033	0.098	0.11
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/25/79-08/18/94	29	0.02	0.056	0.67	0.005	0.016	0.125	0.005	0.008	0.065	0.11
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/25/79-08/18/94	29	0.13	0.082	0.17	0.005	0.004	0.065	0.005	0.005	0.13	0.16
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/25/79-08/18/94	28 ##	0.005	0.006	0.01	0.001	0.	0.002	0.003	0.005	0.007	0.01
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/21/93-08/18/94	8	0.004	0.003	0.005	0.001	0.	0.001	**	**	**	**
00677	PHOSPHORUS,HYDROLYZABLE + ORTHO,DIS,AUTOANALYZER	04/25/79-09/26/79	17 ##	0.005	0.006	0.02	0.005	0.	0.004	0.005	0.005	0.005	0.008
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/21/93-08/18/94	8	0.95	1.013	1.5	0.8	0.056	0.236	**	**	**	**
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/16/93-08/16/93	2	590.	590.	590.	590.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/16/93-08/16/93	2	6000.	6000.	6100.	5900.	20000.	141.421	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	2	4.	4.	4.	4.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	2	36.5	36.5	37.	36.	0.5	0.707	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/16/93-08/16/93	2	37.	37.	37.	37.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/16/93-08/16/93	2	23.	23.	24.	22.	2.	1.414	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/16/93-08/16/93	2	1450.	1450.	1500.	1400.	5000.	70.711	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	2	29.	29.	30.	28.	2.	1.414	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/16/93-08/16/93	2	130.	130.	130.	130.	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/16/93-08/16/93	2	47500.	47500.	49000.	46000.	4500000.	2121.32	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/16/93-08/16/93	2	53500.	53500.	54000.	53000.	500000.	707.107	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/21/93-10/20/94	18	2.	1.722	4.	1.	0.683	0.826	1.	1.	2.	3.1

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

Parameter Inventory for Station: GRSM0069

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	04/21/93-10/20/94	18 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	04/21/93-10/20/94	18 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/21/93-10/20/94	18 ##	0.5	0.556	1.	0.5	0.026	0.162	0.5	0.5	0.5	1.
34257	B-BHC-BETA DRY WGTBOTUG/KG	08/16/93-08/16/93	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	08/16/93-08/16/93	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34354	ENDOSULFAN SULFATE DRY WGTBOTUG/KG	08/16/93-08/16/93	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	08/16/93-08/16/93	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34364	ENDOSULFAN, ALPHA DRY WGTBOTUG/KG	08/16/93-08/16/93	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34369	ENDRIN ALDEHYDE DRY WGTBOTUG/KG	08/16/93-08/16/93	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	08/16/93-08/16/93	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	08/16/93-08/16/93	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	08/16/93-08/16/93	2	11.5	11.5	12.	11.	0.5	0.707	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/16/93-08/16/93	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/16/93-08/16/93	2 ##	250.	250.	250.	250.	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	08/16/93-08/16/93	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	08/16/93-08/16/93	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	08/16/93-08/16/93	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/16/93-08/16/93	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/16/93-08/16/93	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	08/16/93-08/16/93	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/25/79-09/26/79	12	20.	20.	30.	10.	54.545	7.385	10.	12.5	27.5	30.
70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	08/16/93-08/16/93	2	31.2	31.2	31.4	31.	0.08	0.283	**	**	**	**
70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	08/16/93-08/16/93	2	10.1	10.1	10.2	10.	0.02	0.141	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/16/93-08/16/93	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	12/01/92-11/18/93	1	0.46	0.46	0.46	0.46	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	04/18/94-10/20/94	7	1.7	2.714	5.9	1.	4.141	2.035	**	**	**	**
85664	WEIGHT, WET, OF FISH LIVER GRAMS	12/01/92-11/18/93	14	12.	16.429	50.	4.	190.11	13.788	5.	8.	18.5	47.
85665	WEIGHT, WET, FISH, RIGHT FILLET GRAMS	12/01/92-11/18/93	14	225.	227.286	368.	112.	4433.143	66.582	135.5	180.75	267.5	344.
85666	WEIGHT, WET, FISH, LEFT FILLET GRAMS	12/01/92-11/18/93	14	230.	229.143	372.	116.	4392.44	66.275	138.	184.5	265.	347.

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EPA Water Quality Criteria Analysis for Station: GRSM0069

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	12	0	0.00				12	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	681	18	0.03	79	10	0.13	602	8	0.01						
00400	PH	Other-Hi Lim.	9.	681	0	0.00	79	0	0.00	602	0	0.00						
		Other-Lo Lim.	6.5	681	391	0.57	79	61	0.77	602	330	0.55						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	29	0	0.00				29	0	0.00						
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	7	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: GRSM0070

NPS Station ID: GRSM0070 LAT/LON: 35.470837/ -83.318059 Agency: 21NC01WQ Date Created: / /
Location: OCONALUFTEE RIVER NR CHEROKEE NC INACT-750129 FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): G8500000 /LTN029
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 06010203 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010203031 RF1 Mile Point: 0.530 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 060102030003101.06 RF3 Mile Point: 1.05 Distance from RF3: 0.07 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0070

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/29/68-03/24/76	16	17.	14.844	22.	1.5	38.324	6.191	5.35	9.	19.75	22.
00023	SAMPLE WEIGHT IN POUNDS	07/29/68-01/29/75	15	18.	15.233	22.	1.5	38.46	6.202	4.8	9.	20.	22.
00060	FLOW, STREAM, MEAN DAILY CFS	07/29/68-06/18/70	5	270.	265.8	361.	148.	9309.7	96.487	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/24/76-03/24/76	1	400.	400.	400.	400.	0.	0.	**	**	**	**
00065	STAGE, STREAM (FEET)	06/21/73-03/24/76	2	3.035	3.035	3.15	2.92	0.026	0.163	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/16/74-12/10/74	2	1.9	1.9	2.6	1.2	0.98	0.99	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/12/74-11/14/74	2	47.5	47.5	64.	31.	544.5	23.335	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/29/68-03/24/76	16	9.7	10.006	13.5	7.	2.397	1.548	8.12	9.	10.9	12.59
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/29/68-03/24/76	16	97.5	96.75	113.	57.	159.8	12.641	75.9	94.25	104.25	110.2
00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	09/12/74-11/14/74	2	47.5	47.5	64.	31.	544.5	23.335	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	07/29/68-03/24/76	11	0.4	0.623	1.4	0.05	0.22	0.469	0.08	0.3	1.1	1.38
00340	COD, .25N K2CR2O7 MG/L	01/29/75-03/24/76	2 ##	8.75	8.75	12.5	5.	28.125	5.303	**	**	**	**
00400	PH (STANDARD UNITS)	07/29/68-03/24/76	16	6.7	6.8	7.6	6.1	0.164	0.405	6.24	6.525	7.1	7.46
00400	CONVERTED PH (STANDARD UNITS)	07/29/68-03/24/76	16	6.7	6.642	7.6	6.1	0.191	0.437	6.24	6.525	7.1	7.46
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/68-03/24/76	16	0.2	0.228	0.794	0.025	0.04	0.201	0.035	0.079	0.3	0.589
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/29/68-03/24/76	16	7.	6.875	9.	4.	2.383	1.544	4.7	6.	8.	9.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/68-03/24/76	14	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)	09/16/74-03/24/76	3	22.	25.333	35.	19.	72.333	8.505	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	09/16/74-03/24/76	2	10.	10.	16.	4.	72.	8.485	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	09/16/74-03/24/76	2	18.	18.	21.	15.	18.	4.243	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/21/73-01/29/75	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	12/08/70-12/08/70	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00525	RESIDUE, FIXED FILTRABLE (MG/L)	06/21/73-06/21/73	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/16/74-03/24/76	2	7.	7.	13.	1.	72.	8.485	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	09/16/74-03/24/76	2	3.	3.	5.	1.	8.	2.828	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	09/16/74-03/24/76	2	4.	4.	8.	0.	32.	5.657	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	06/21/73-01/29/75	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/29/75-01/29/75	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/29/75-01/29/75	1	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/29/68-01/29/75	15	9.7	9.86	13.5	7.	2.201	1.484	7.96	9.	10.6	12.24
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/29/75-01/29/75	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/29/75-01/29/75	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/29/75-01/29/75	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00740	SULFITE (MG/L AS SO3)	06/21/73-01/29/75	6	2.	1.833	2.	1.	0.167	0.408	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/29/68-06/18/70	5	270.	265.8	361.	148.	9309.7	96.487	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	01/29/75-01/29/75	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	09/16/74-09/16/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	06/21/73-01/29/75	5	90.	138.	270.	60.	7470.	86.429	**	**	**	**

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Parameter Inventory for Station: GRSM0070

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/21/73-01/29/75	6	0.	0.05	0.3	0.	0.015	0.122	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	06/21/73-01/29/75	6	1.	1.	1.	1.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/16/74-09/16/74	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/29/68-10/16/69	3	879.	989.667	1310.	780.	79410.333	281.798	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	08/26/71-01/29/75	5	330.	1056.	3800.	150.	2400380.	1549.316	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/29/68-01/29/75	10	0.4	0.555	1.	0.05	0.141	0.376	0.065	0.275	1.	1.
01132	LITHIUM, TOTAL (UG/L AS LI)	06/21/73-01/29/75	6	47.5	50.	100.	0.	2210.	47.011	**	**	**	**
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	05/14/69-01/29/75	4	17500.	16753.125	32000.	12.5	244777122.396	15645.355	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	05/14/69-01/29/75	4	4.146	3.474	4.505	1.097	2.6	1.612	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			2975.631								
31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/68-01/29/75	15	7.	6.867	8.	6.	0.267	0.516	6.	7.	7.	7.4
31508	LOG COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/68-01/29/75	15	0.845	0.836	0.903	0.778	0.001	0.033	0.778	0.845	0.845	0.868
31508	GM COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	GEOMETRIC MEAN =			6.848								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	07/29/68-04/27/71	3	200.	1293.333	3500.	180.	3652133.333	1911.056	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	07/29/68-04/27/71	3	2.301	2.7	3.544	2.255	0.535	0.731	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			501.33								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/26/71-03/24/76	6	300.	890.	3800.	60.	2085640.	1444.175	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/26/71-03/24/76	6	2.475	2.558	3.58	1.778	0.382	0.618	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			361.303								
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/21/73-01/29/75	4	0.	0.25	1.	0.	0.25	0.5	**	**	**	**
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/29/68-01/29/75	15	97.	96.2	113.	57.	166.029	12.885	73.2	94.	102.	110.6
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/21/73-01/29/75	6	50.	64.167	95.	50.	484.167	22.004	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	12/08/70-12/08/70	1	## 0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
85001	BOD, 5 DAY LBS/DAY	07/29/68-06/18/70	4	1094.5	1372.25	2520.	780.	638420.25	799.012	**	**	**	**

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: GRSM0070

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	2	0	0.00	1	0	0.00	1	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	16	0	0.00	6	0	0.00	10	0	0.00						
00400	PH	Other-Hi Lim.	9.	16	0	0.00	6	0	0.00	10	0	0.00						
		Other-Lo Lim.	6.5	16	4	0.25	6	1	0.17	10	3	0.30						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									
00720	CYANIDE, TOTAL	Fresh Acute	0.022	0 &	0	0.00												
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	5	0	0.00	2	0	0.00	3	0	0.00						
		Drinking Water	50.	5	5	1.00	2	2	1.00	3	3	1.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	6	0	0.00	3	0	0.00	3	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	6	0	0.00	3	0	0.00	3	0	0.00						
		Drinking Water	1300.	6	0	0.00	3	0	0.00	3	0	0.00						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	3	0	0.00	1	0	0.00	2	0	0.00						
		Drinking Water	100.	3	3	1.00	1	1	1.00	2	2	1.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	5	5	1.00	2	2	1.00	3	3	1.00						
		Drinking Water	50.	5	5	1.00	2	2	1.00	3	3	1.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	10	0	0.00	3	0	0.00	7	0	0.00						
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	4	3	0.75	2	1	0.50	2	2	1.00						
31508	COLIFORM, TOTAL, MPN, COMP. TEST, TUBE C	Other-Hi Lim.	1000.	15	0	0.00	5	0	0.00	10	0	0.00						
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	3	2	0.67	1	1	1.00	2	1	0.50						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	6	4	0.67	3	1	0.33	3	3	1.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0071

NPS Station ID: GRSM0071 | LAT/LON: 35.470837/ -83.869448 | Agency: 12NSS | Date Created: 10/22/88
Location: TWENTYMILE CREEK | FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): 2A07892L /SI02A07892L
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 06010204 | Depth of Water: 3 | Aquifer:
Major Basin: | Elevation: 439 | Water Body Id:
Minor Basin: | ECO Region:
RF1 Index: 06010204 | RF1 Mile Point: 0.000 | Distance from RF1: 14.80 | On/Off RF1:
RF3 Index: 06010202019503.57 | RF3 Mile Point: 5.28 | Distance from RF3: 0.02 | On/Off RF3:
Description:
THESE DATA WERE COLLECTED DURING PHASE I OF THE NATIONAL STREAM SURVEY AS PART OF EPA'S NATIONAL SURFACE WATER SURVEY AND AQUATIC EFFECTS RESEARCH PROGRAM UNDER THE NATIONAL ACID PRECIPITATION ASSESSMENT PROGRAM. THE SURVEY DESIGN, METHODS, AND DATA LIMITAITONS ARE DESCRIBED IN:

Parameter Inventory for Station: GRSM0071

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/25/85-07/11/85	4	11.7	12.35	18.	8.	26.357	5.134	**	**	**	**
00064	DEPTH OF STREAM, MEAN (FT)	03/25/85-07/11/85	4	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	03/25/85-07/11/85	4	12.5	12.5	15.	10.	8.333	2.887	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/25/85-07/11/85	4	11.5	11.75	13.	11.	0.917	0.957	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/25/85-07/11/85	4	9.25	9.625	11.8	8.2	2.949	1.717	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/25/85-07/11/85	4	6.65	6.6	6.8	6.3	0.047	0.216	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/25/85-07/11/85	4	6.647	6.557	6.8	6.3	0.049	0.222	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/25/85-07/11/85	4	0.225	0.278	0.501	0.158	0.024	0.154	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	03/25/85-07/11/85	4	64.05	67.8	83.	60.1	111.567	10.563	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	03/25/85-07/11/85	4	3.	3.25	4.	3.	0.25	0.5	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/85-07/11/85	4	0.012	0.013	0.021	0.009	0.	0.005	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/25/85-07/11/85	4	0.95	1.05	1.7	0.6	0.23	0.48	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	03/25/85-07/11/85	4	0.95	0.925	1.	0.8	0.009	0.096	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/25/85-07/11/85	4	0.65	0.675	0.8	0.6	0.009	0.096	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/25/85-07/11/85	4	0.2	0.225	0.3	0.2	0.002	0.05	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	03/25/85-07/11/85	4	0.96	0.96	1.	0.92	0.002	0.046	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/25/85-07/11/85	4	0.505	0.505	0.55	0.46	0.002	0.047	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	03/25/85-07/11/85	4	0.5	0.475	0.5	0.4	0.002	0.05	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/25/85-07/11/85	4	0.95	0.95	1.2	0.7	0.043	0.208	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/25/85-07/11/85	4	0.025	0.025	0.03	0.02	0.	0.006	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/25/85-07/11/85	4	7.4	7.375	8.1	6.6	0.402	0.634	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/25/85-07/11/85	4	0.5	0.75	2.	0.	0.917	0.957	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/25/85-07/11/85	4	77.	88.5	163.	37.	2846.333	53.351	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/25/85-07/11/85	4	0.2	0.25	0.4	0.2	0.01	0.1	**	**	**	**
71885	IRON (UG/L AS FE)	03/25/85-07/11/85	4	5.495	7.37	16.99	1.5	46.168	6.795	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/25/85-07/11/85	4	1440.	1440.	1440.	1440.	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/25/85-07/11/85	4	0.9	1.25	2.7	0.5	1.077	1.038	**	**	**	**
83509	STREAM, WIDTH METER	03/25/85-07/11/85	4	6.7	6.7	6.7	6.7	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: GRSM0071

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Fresh Acute	4.	4	0	0.00	1	0	0.00	3	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	4	0	0.00	1	0	0.00	3	0	0.00						
		Other-Lo Lim.	6.5	4	1	0.25	1	1	1.00	3	0	0.00						
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	4	4	1.00	1	1	1.00	3	3	1.00						
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	4	0	0.00	1	0	0.00	3	0	0.00						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	4	0	0.00	1	0	0.00	3	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	4	0	0.00	1	0	0.00	3	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	4	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: GRSM0072

NPS Station ID: GRSM0072
LAT/LON: 35.472503/ -83.856393
Agency: 131TVAC
Date Created: 03/03/84
Location: TRIB. TO UNNAMED TRIB. 0.16 TO LITTLE TN R 55.15
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370145
RMI-Indexes: 1021500 007720 00920 8540 3070 0010
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 055.15 000.16 001.85
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: TWENTYMILE CREEK 1.85
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010202000100.04
RF3 Mile Point: 0.04
Distance from RF3: 0.07
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/13/83-05/08/85	7	8.2	8.714	17.5	0.	30.295	5.504	**	**	**	**
00065	STAGE, STREAM (FEET)	08/29/84-05/08/85	11	1.18	6.556	50.75	0.97	223.902	14.963	0.972	1.01	1.36	42.832
00080	COLOR (PLATINUM-COBALT UNITS)	12/13/83-05/08/85	22	10.	9.364	15.	2.	14.338	3.787	2.3	6.75	12.	14.7
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	12/13/83-05/08/85	22	20.	21.727	60.	2.	192.398	13.871	7.3	13.5	25.5	44.9
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	12/13/83-05/08/85	6	11.5	11.833	14.	10.	2.167	1.472	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/23/84-06/07/85	32	12.	13.125	23.	10.	10.242	3.2	11.	12.	13.	19.2
00300	OXYGEN, DISSOLVED MG/L	12/13/83-08/29/84	4	11.3	10.775	11.7	8.8	1.876	1.37	**	**	**	**
00400	PH (STANDARD UNITS)	12/13/83-05/08/85	7	6.3	6.201	6.8	5.34	0.243	0.493	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/13/83-05/08/85	7	6.3	5.935	6.8	5.34	0.326	0.571	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/13/83-05/08/85	7	0.501	1.161	4.571	0.158	2.483	1.576	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	12/13/83-06/07/85	34	6.7	6.521	7.	5.7	0.153	0.391	5.9	6.1	6.8	6.9
00403	CONVERTED PH, LAB, STANDARD UNITS	12/13/83-06/07/85	34	6.7	6.329	7.	5.7	0.191	0.437	5.9	6.1	6.8	6.9
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/13/83-06/07/85	34	0.2	0.469	1.995	0.1	0.243	0.493	0.126	0.158	0.794	1.259
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/13/83-06/07/85	34	3.	2.735	6.	1.	1.231	1.109	1.	2.	3.	4.
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	12/13/83-05/08/85	24 ##	0.02	0.02	0.02	0.02	0.	0.	0.02	0.02	0.02	0.02
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/16/84-05/16/84	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	12/13/83-05/08/85	24	1.2	1.392	2.5	0.7	0.271	0.521	0.85	1.	1.75	2.3
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/13/83-05/08/85	24	0.7	0.704	1.	0.5	0.01	0.1	0.6	0.7	0.7	0.85
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/13/83-05/08/85	24	0.2	0.229	0.3	0.1	0.003	0.055	0.2	0.2	0.3	0.3
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/13/83-05/08/85	24	0.87	0.854	1.1	0.67	0.012	0.107	0.73	0.76	0.9	1.03
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/13/83-05/08/85	24	0.495	0.486	0.68	0.005	0.019	0.138	0.32	0.433	0.57	0.625
00946	SULFATE, DISSOLVED (MG/L AS SO4)	12/13/83-05/08/85	26	1.2	1.358	2.5	0.7	0.283	0.532	0.8	0.975	1.9	2.23
00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/13/83-05/08/85	24 ##	0.01	0.012	0.03	0.01	0.	0.006	0.01	0.01	0.01	0.025
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/20/84-06/07/85	28	26.5	40.357	120.	18.	678.238	26.043	18.9	25.	51.75	89.2
32023	ACIDS, STRONG	12/13/83-05/08/85	26 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
32024	ACIDS, WEAK	12/13/83-05/08/85	26	190.	348.462	710.	90.	63357.538	251.709	117.	120.	622.5	661.
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	12/13/83-05/16/84	3	2.	2.	2.	2.	0.	0.	**	**	**	**
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	12/13/83-05/08/85	24 ##	0.005	0.024	0.17	0.005	0.001	0.035	0.005	0.005	0.038	0.045
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	12/13/83-05/08/85	24	0.4	0.486	0.9	0.02	0.082	0.287	0.125	0.3	0.8	0.9
82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	12/13/83-05/08/85	24	500.	529.167	1300.	400.	30851.449	175.646	400.	500.	500.	600.

** - Less 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: GRSM0072

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	4	0	0.00	2	0	0.00	2	0	0.00						
00400	PH	Other-Hi Lim.	9.	7	0	0.00	4	0	0.00	3	0	0.00						
		Other-Lo Lim.	6.5	7	5	0.71	4	3	0.75	3	2	0.67						
00403	PH, LAB	Other-Hi Lim.	9.	34	0	0.00	14	0	0.00	20	0	0.00						
		Other-Lo Lim.	6.5	34	14	0.41	14	11	0.79	20	3	0.15						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	26	0	0.00	14	0	0.00	12	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	24	0	0.00	12	0	0.00	12	0	0.00						
82295	CHLORIDE DISSOLVED AS CL IN WATER	Fresh Acute	860000.	24	0	0.00	12	0	0.00	12	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: GRSM0073

NPS Station ID: GRSM0073 LAT/LON: 35.477782/ -83.318059 Agency: 21NC01WQ Date Created: / /
Location: OCONALUFTEE RIVER AT CHEROKEE NC INACT-750129 FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): G8200000 /LTN028
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 06010203 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010203031 RF1 Mile Point: 0.930 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010202049200.00 RF3 Mile Point: 0.00 Distance from RF3: 0.10 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0073

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/29/68-01/29/75	15	17.	15.2	22.	1.	40.314	6.349	4.	9.	20.	22.
00023	SAMPLE WEIGHT IN POUNDS	07/29/68-01/29/75	15	17.	15.2	22.	1.	40.314	6.349	4.	9.	20.	22.
00060	FLOW, STREAM, MEAN DAILY CFS	07/29/68-06/18/70	5	270.	265.8	361.	148.	9309.7	96.487	**	**	**	**
00065	STAGE, STREAM (FEET)	06/21/73-06/21/73	1	2.92	2.92	2.92	2.92	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/16/74-12/10/74	2	1.6	1.6	2.1	1.1	0.5	0.707	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/12/74-11/14/74	2	44.5	44.5	60.	29.	480.5	21.92	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/29/68-01/29/75	15	9.7	9.967	13.6	7.6	2.171	1.473	8.2	8.9	11.1	12.34
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/29/68-01/29/75	14	96.5	97.714	113.	61.	155.451	12.468	77.5	95.	107.5	112.
00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	09/12/74-11/14/74	2	44.5	44.5	60.	29.	480.5	21.92	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	07/29/68-01/29/75	10	0.45	0.66	1.6	0.2	0.196	0.443	0.21	0.375	1.025	1.55
00340	COD, .25N K2CR2O7 MG/L	01/29/75-01/29/75	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/29/68-01/29/75	15	7.	6.847	7.7	6.2	0.196	0.442	6.2	6.5	7.1	7.52
00400	CONVERTED PH (STANDARD UNITS)	07/29/68-01/29/75	15	7.	6.655	7.7	6.2	0.235	0.485	6.2	6.5	7.1	7.52
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/68-01/29/75	15	0.1	0.221	0.631	0.02	0.044	0.209	0.032	0.079	0.316	0.631
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/29/68-01/29/75	15	7.	6.267	8.	4.	1.924	1.387	4.	5.	7.	8.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/68-01/29/75	13	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)	09/16/74-01/29/75	2	13.5	13.5	16.	11.	12.5	3.536	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	09/16/74-01/29/75	2	5.	5.	7.	3.	8.	2.828	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	09/16/74-01/29/75	2	8.5	8.5	9.	8.	0.5	0.707	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/21/73-01/29/75	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	12/08/70-12/08/70	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00525	RESIDUE, FIXED FILTRABLE (MG/L)	06/21/73-06/21/73	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/16/74-01/29/75	2	5.	5.	7.	3.	8.	2.828	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	09/16/74-01/29/75	2	3.5	3.5	7.	0.	24.5	4.95	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	09/16/74-01/29/75	2	1.5	1.5	3.	0.	4.5	2.121	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	06/21/73-01/29/75	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/29/75-01/29/75	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/29/75-01/29/75	1	0.24	0.24	0.24	0.24	0.	0.	**	**	**	**
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/29/68-01/29/75	15	9.7	9.967	13.6	7.6	2.171	1.473	8.2	8.9	11.1	12.34
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/29/75-01/29/75	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/29/75-01/29/75	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/29/75-01/29/75	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00740	SULFITE (MG/L AS SO3)	06/21/73-01/29/75	6	2.	1.667	2.	1.	0.267	0.516	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/29/68-06/18/70	5	270.	265.8	361.	148.	9309.7	96.487	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	01/29/75-01/29/75	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	09/16/74-01/29/75	2	1.5	1.5	3.	0.	4.5	2.121	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	06/21/73-01/29/75	5	180.	192.	270.	60.	7470.	86.429	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/21/73-01/29/75	6	0.	0.05	0.3	0.	0.015	0.122	**	**	**	**

** - Less 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: GRSM0073

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01040	COPPER, DISSOLVED (UG/L AS CU)	06/21/73-01/29/75	6	1.	1.	1.	1.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/16/74-01/29/75	2	8.5	8.5	9.	8.	0.5	0.707	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/29/68-10/16/69	3	799.	785.667	975.	583.	38549.333	196.34	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	08/26/71-01/29/75	5	20.	17.	30.	5.	95.	9.747	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/29/68-01/29/75	10	0.45	0.69	2.	0.2	0.288	0.536	0.21	0.375	1.	1.9
01132	LITHIUM, TOTAL (UG/L AS LI)	06/21/73-01/29/75	6	57.5	55.833	100.	0.	1784.167	42.239	**	**	**	**
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	05/14/69-01/29/75	4 ##	75.	965.625	3700.	12.5	3324309.896	1823.269	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	05/14/69-01/29/75	4 ##	1.849	2.091	3.568	1.097	1.111	1.054	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			123.316								
31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/68-01/29/75	15	7.	6.867	8.	6.	0.267	0.516	6.	7.	7.	7.4
31508	LOG COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/68-01/29/75	15	0.845	0.836	0.903	0.778	0.001	0.033	0.778	0.845	0.845	0.868
31508	GM COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	GEOMETRIC MEAN =			6.848								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	07/29/68-04/27/71	3 ##	5.	90.	260.	5.	21675.	147.224	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	07/29/68-04/27/71	3 ##	0.699	1.271	2.415	0.699	0.982	0.991	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			18.663								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/26/71-01/29/75	5	20.	17.	30.	5.	95.	9.747	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/26/71-01/29/75	5	1.301	1.156	1.477	0.699	0.095	0.308	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			14.31								
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/21/73-01/29/75	4	0.	0.	0.	0.	0.	0.	**	**	**	**
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/29/68-01/29/75	14	96.5	97.714	113.	61.	155.451	12.468	77.5	95.	107.5	112.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/21/73-01/29/75	6	50.	56.667	90.	50.	266.667	16.33	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	12/08/70-12/08/70	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
85001	BOD, 5 DAY LBS/DAY	07/29/68-06/18/70	4	887.	1121.75	2130.	583.	477507.583	691.019	**	**	**	**

** - Less 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: GRSM0073

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	2	0	0.00	1	0	0.00	1	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	15	0	0.00	5	0	0.00	10	0	0.00						
00400	PH	Other-Hi Lim.	9.	15	0	0.00	5	0	0.00	10	0	0.00						
		Other-Lo Lim.	6.5	15	4	0.27	5	1	0.20	10	3	0.30						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									
00720	CYANIDE, TOTAL	Fresh Acute	0.022	0 &	0	0.00												
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	5	0	0.00	2	0	0.00	3	0	0.00						
		Drinking Water	50.	5	5	1.00	2	2	1.00	3	3	1.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	6	0	0.00	3	0	0.00	3	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	6	0	0.00	3	0	0.00	3	0	0.00						
		Drinking Water	1300.	6	0	0.00	3	0	0.00	3	0	0.00						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	3	0	0.00	1	0	0.00	2	0	0.00						
		Drinking Water	100.	3	3	1.00	1	1	1.00	2	2	1.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	4 &	4	1.00	1	1	1.00	3	3	1.00						
		Drinking Water	50.	5	0	0.00	2	0	0.00	3	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	10	0	0.00	3	0	0.00	7	0	0.00						
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	4	1	0.25	2	0	0.00	2	1	0.50						
31508	COLIFORM, TOTAL, MPN, COMP. TEST, TUBE C	Other-Hi Lim.	1000.	15	0	0.00	5	0	0.00	10	0	0.00						
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	3	1	0.33	1	0	0.00	2	1	0.50						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	5	0	0.00	2	0	0.00	3	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0074

NPS Station ID: GRSM0074
LAT/LON: 35.484726/ -83.504170
Agency: 112WRD
Date Created: 01/05/78
Location: NOLAND CREEK NEAR BRYSON CITY, N. C.
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03513500
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010202
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010202
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010203002903.15
RF3 Mile Point: 3.41
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0074

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	11/06/56-04/13/62	8	31.5	43.25	141.	10.	1798.214	42.405	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	11/06/56-04/13/62	8	4.	5.375	10.	0.	16.554	4.069	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/06/56-04/13/62	8	10.	10.375	12.	9.	0.839	0.916	**	**	**	**
00400	PH (STANDARD UNITS)	11/06/56-04/13/62	8	6.5	6.413	6.7	6.	0.061	0.247	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/06/56-04/13/62	8	6.5	6.347	6.7	6.	0.066	0.257	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/06/56-04/13/62	8	0.316	0.45	1.	0.2	0.078	0.279	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	11/06/56-04/13/62	8	4.5	4.875	6.	4.	0.982	0.991	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/06/56-04/13/62	8	3.	3.125	4.	2.	0.696	0.835	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/06/56-04/13/62	8	0.	0.125	1.	0.	0.125	0.354	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/06/56-04/13/62	8	0.8	0.875	1.4	0.6	0.076	0.276	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/06/56-04/13/62	8	0.15	0.225	0.6	0.1	0.034	0.183	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/06/56-04/13/62	8	0.7	0.612	0.8	0.3	0.047	0.217	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/06/56-04/13/62	8	0.25	0.275	0.5	0.1	0.016	0.128	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/06/56-04/13/62	8	0.45	0.525	1.	0.1	0.096	0.311	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/06/56-04/13/62	8	0.6	0.85	2.	0.	0.557	0.746	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/06/56-04/13/62	8	0.	0.025	0.1	0.	0.002	0.046	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/06/56-04/13/62	7	6.	5.771	6.6	4.3	0.682	0.826	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	11/06/56-04/13/62	8	0.	2.5	20.	0.	50.	7.071	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/06/56-04/13/62	8	12.	13.125	24.	10.	20.982	4.581	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	11/06/56-04/13/62	8	0.2	0.2	0.6	0.	0.031	0.177	**	**	**	**

** - Less 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: GRSM0074

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00400	PH	Other-Hi Lim.	9.	8	0	0.00	4	0	0.00	4	0	0.00						
		Other-Lo Lim.	6.5	8	5	0.63	4	1	0.25	4	4	1.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	8	0	0.00	4	0	0.00	4	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	8	0	0.00	4	0	0.00	4	0	0.00						
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	8	0	0.00	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: GRSM0075

NPS Station ID: GRSM0075
LAT/LON: 35.490837/ -83.950282
Agency: 131TVAC
Date Created: 08/06/88
Location: CALDERWOOD RESERVOIR
FIPS State/County: 47123 TENNESSEE/MONROE
Station Type: /TYPA/AMBNT/FISH/STREAM
STORET Station ID(s): 477096
RMI-Indexes: 1021500 007720 00920 8540
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 601.10 046.00
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 46.0
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 16.30
On/Off RF1:
RF3 Index: 06010204051303.30
RF3 Mile Point: 3.29
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0075

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00019	SAMPLE WEIGHT IN GRAMS	12/15/87-12/15/87	10	893.	830.6	1134.	340.	59903.822	244.753	362.7	651.75	1028.	1125.5
00039	SAMPLE LENGTH IN MILLIMETERS	12/15/87-12/15/87	10	432.	420.9	462.	338.	1424.767	37.746	343.3	393.25	453.25	461.5

** - 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

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

Station Inventory for Station: GRSM0076

NPS Station ID: GRSM0076
LAT/LON: 35.491115/ -83.934170
Agency: 112WRD
Date Created: / /
Location: PARSON BR NR CALDERWOOD TENN
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03517800
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010204020
RF1 Mile Point: 9.160
Distance from RF1: 16.70
On/Off RF1: OFF
RF3 Index: 06010201081900.00
RF3 Mile Point: 1.51
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	09/25/68-09/25/68	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	09/25/68-09/25/68	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/68-09/25/68	1	37.	37.	37.	37.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/25/68-09/25/68	1	6.2	6.2	6.2	6.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/25/68-09/25/68	1	6.2	6.2	6.2	6.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/25/68-09/25/68	1	0.631	0.631	0.631	0.631	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/25/68-09/25/68	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/25/68-09/25/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/25/68-09/25/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/25/68-09/25/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/68-09/25/68	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/68-09/25/68	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/25/68-09/25/68	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/25/68-09/25/68	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/25/68-09/25/68	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/25/68-09/25/68	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/25/68-09/25/68	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/25/68-09/25/68	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/25/68-09/25/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/25/68-09/25/68	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/25/68-09/25/68	1	30.	30.	30.	30.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/25/68-09/25/68	1	38.	38.	38.	38.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/25/68-09/25/68	1	30.	30.	30.	30.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/25/68-09/25/68	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/25/68-09/25/68	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/25/68-09/25/68	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0076

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						

& - 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: GRSM0077

NPS Station ID: GRSM0077
LAT/LON: 35.492505/ -83.979448
Agency: 131TVAC
Date Created: 10/06/79
Location: CALDERWOOD DAM RESERVOIR SIDE
FIPS State/County: 47123 TENNESSEE/MONROE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 476233
RMI-Indexes: 1021500 007720 00920 8540
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 601.10 043.61
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 43.61
ECO Region:
RF1 Index: 06010204020
RF1 Mile Point: 6.270
Distance from RF1: 15.50
On/Off RF1: OFF
RF3 Index: 06010204051400.00
RF3 Mile Point: 0.16
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0077

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/15/79-10/18/82	21	16.6	14.171	17.4	8.5	11.116	3.334	8.58	10.8	16.7	17.08
00080	COLOR (PLATINUM-COBALT UNITS)	10/18/82-10/18/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	10/18/82-10/18/82	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/18/82-10/18/82	20	20.	20.5	25.	20.	2.368	1.539	20.	20.	20.	24.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/82-10/18/82	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/15/79-10/18/82	21	6.2	6.143	9.9	3.6	1.734	1.317	4.36	5.65	6.45	7.98
00400	PH (STANDARD UNITS)	10/18/82-10/18/82	20	5.8	5.86	6.1	5.7	0.023	0.15	5.7	5.725	6.	6.1
00400	CONVERTED PH (STANDARD UNITS)	10/18/82-10/18/82	20	5.8	5.837	6.1	5.7	0.023	0.152	5.7	5.725	6.	6.1
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/82-10/18/82	20	1.585	1.455	1.995	0.794	0.2	0.447	0.794	1.	1.893	1.995
00403	PH, LAB, STANDARD UNITS SU	10/18/82-10/18/82	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/18/82-10/18/82	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/82-10/18/82	1	0.316	0.316	0.316	0.316	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/18/82-10/18/82	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	10/18/82-10/18/82	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	10/18/82-10/18/82	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/15/79-08/15/79	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/15/79-08/15/79	1	0.13	0.13	0.13	0.13	0.	0.	**	**	**	**
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	10/18/82-10/18/82	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/15/79-08/15/79	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/18/82-10/18/82	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/18/82-10/18/82	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/18/82-10/18/82	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/18/82-10/18/82	1	0.54	0.54	0.54	0.54	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	10/18/82-10/18/82	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/18/82-10/18/82	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/18/82-10/18/82	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
32023	ACIDS, STRONG	10/18/82-10/18/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024	ACIDS, WEAK	10/18/82-10/18/82	1	110.	110.	110.	110.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	10/18/82-10/18/82	1	7.	7.	7.	7.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/18/82-10/18/82	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	10/18/82-10/18/82	1	900.	900.	900.	900.	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: GRSM0077

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	21	1	0.05	20	1	0.05	1	0	0.00						
00400	PH	Other-Hi Lim.	9.	20	0	0.00	20	0	0.00									
		Other-Lo Lim.	6.5	20	20	1.00	20	20	1.00									
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00				1	0	0.00						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
82295	CHLORIDE DISSOLVED AS CL IN WATER	Fresh Acute	860000.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0078

NPS Station ID: GRSM0078
LAT/LON: 35.493892/ -83.988893
Agency: 131TVAC
Date Created: / /
Location: CALDERWOOD POWERHOUSE PENSTOCK
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 475526 /3935
RMI-Indexes: 1021500 007720 00920 8540
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 601.10 042.40
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 42.4
ECO Region:
RF1 Index: 06010204020
RF1 Mile Point: 4.830
Distance from RF1: 1.70
On/Off RF1: OFF
RF3 Index: 06010201003209.95
RF3 Mile Point: 10.33
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0078

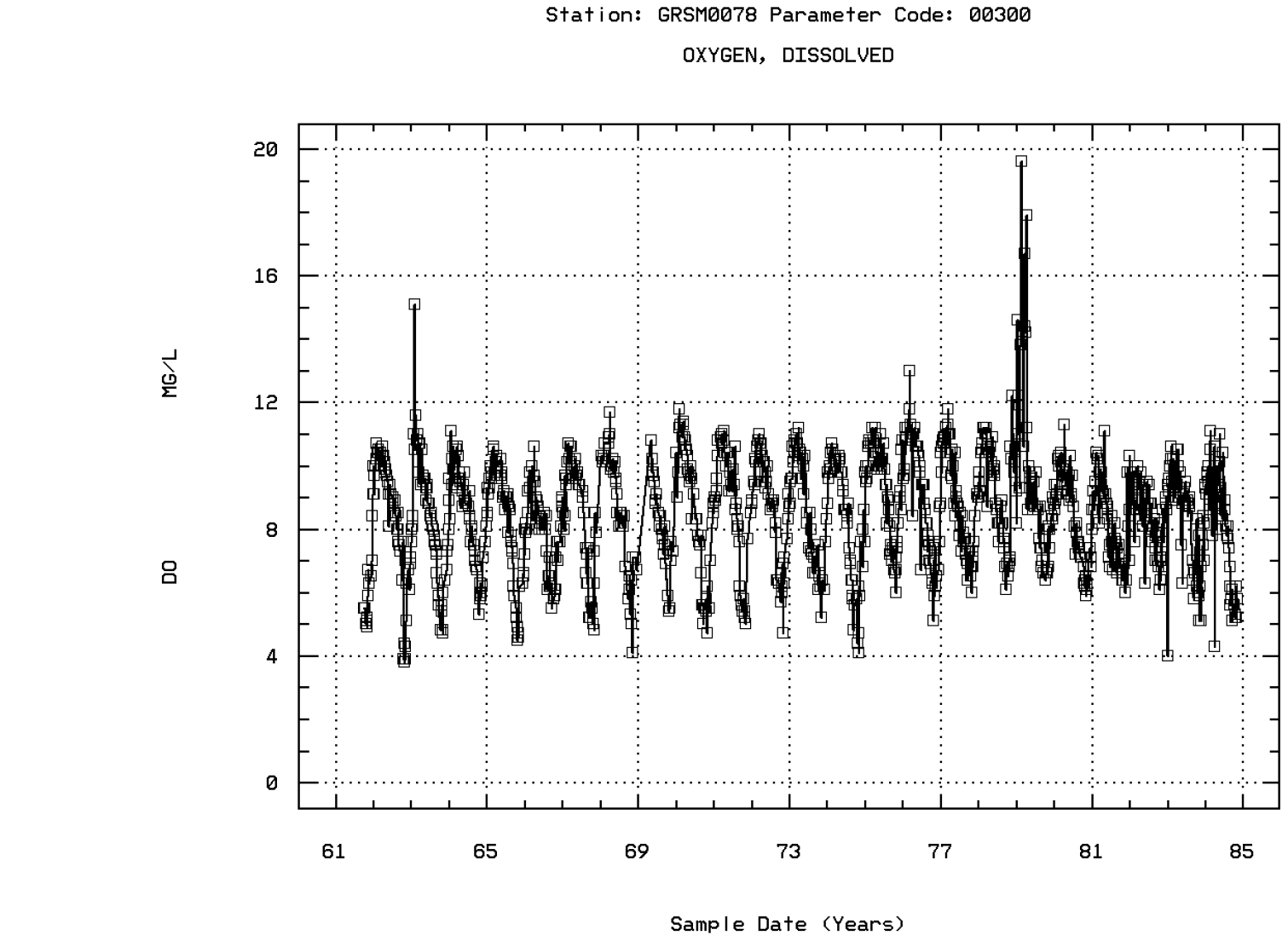
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	1128	11.9	11.8	19.5	3.5	13.7	3.701	7.	8.9	15.	17.
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/02/46-11/05/84	715	5818.	5754.901	16000.	0.	4419254.392	2102.202	2565.2	4488.	7708.	7903.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/28/74-01/24/77	37	3.2	3.338	10.	0.5	2.509	1.584	1.7	2.3	4.	4.72
00080	COLOR (PLATINUM-COBALT UNITS)	01/28/74-01/24/77	37	6.	6.865	18.	1.	17.717	4.209	1.8	3.5	10.	12.6
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	01/28/74-01/24/77	37	12.	14.108	35.	1.	50.766	7.125	5.	10.	18.	25.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/28/74-01/24/77	37	21.	25.784	120.	19.	273.396	16.535	20.	20.	25.	31.4
00300p	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	1109	8.7	8.536	19.6	3.8	3.327	1.824	6.1	7.2	9.8	10.6
00310	BOD, 5 DAY, 20 DEG C MG/L	03/18/76-11/10/76	3 ##	0.5	0.7	1.1	0.5	0.12	0.346	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	01/28/74-01/24/77	37	2.	2.932	12.	0.5	4.599	2.145	0.9	2.	4.	5.2
00400	PH (STANDARD UNITS)	01/28/74-01/24/77	37	6.4	6.324	7.4	5.2	0.135	0.367	5.94	6.1	6.5	6.6
00400	CONVERTED PH (STANDARD UNITS)	01/28/74-01/24/77	37	6.4	6.126	7.4	5.2	0.175	0.418	5.94	6.1	6.5	6.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/28/74-01/24/77	37	0.398	0.748	6.31	0.04	1.321	1.149	0.251	0.316	0.794	1.199
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/28/74-01/24/77	37	6.	5.892	9.	2.	3.544	1.882	4.	4.	8.	8.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	01/28/74-01/24/77	37	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/28/74-01/24/77	37	1.	2.054	24.	0.5	15.039	3.878	0.5	0.5	2.5	3.2
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	01/28/74-01/24/77	37	0.06	0.069	0.22	0.005	0.003	0.053	0.018	0.03	0.095	0.16
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/28/74-01/24/77	37	0.03	0.042	0.14	0.005	0.001	0.036	0.005	0.01	0.07	0.1
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/74-01/24/77	37	0.22	0.281	0.76	0.11	0.023	0.151	0.13	0.16	0.39	0.45
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/28/74-01/24/77	37	0.01	0.014	0.04	0.005	0.	0.01	0.005	0.008	0.02	0.03
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/19/76-05/17/76	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	01/28/74-01/24/77	37	2.	2.176	16.	0.5	5.961	2.442	0.9	1.	2.	3.
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/28/74-01/24/77	37	0.6	0.759	3.7	0.3	0.337	0.58	0.5	0.55	0.75	1.
00929	SODIUM, TOTAL (MG/L AS NA)	01/28/74-01/24/77	37	1.3	1.4	3.	0.8	0.253	0.503	1.	1.1	1.5	2.34
00937	POTASSIUM, TOTAL MG/L AS K)	01/28/74-01/24/77	37	0.6	0.611	1.	0.2	0.02	0.141	0.5	0.5	0.7	0.8
00940	CHLORIDE,TOTAL IN WATER MG/L	01/28/74-01/24/77	37	2.	2.432	6.	1.	0.863	0.929	2.	2.	3.	4.
00945	SULFATE, TOTAL (MG/L AS SO4)	01/28/74-01/24/77	37	2.	1.716	4.	0.5	0.688	0.829	0.5	1.	2.	3.
00951	FLUORIDE, TOTAL (MG/L AS F)	01/28/74-01/24/77	36 ##	0.05	0.051	0.3	0.01	0.002	0.044	0.02	0.043	0.05	0.05
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/17/75-01/24/77	23	6.4	6.265	6.9	4.1	0.362	0.602	5.64	6.1	6.7	6.8
00956	SILICA, TOTAL (MG/L AS SI02)	01/28/74-02/17/75	14	6.5	6.636	8.1	5.9	0.281	0.53	6.05	6.3	6.85	7.6
01045	IRON, TOTAL (UG/L AS FE)	01/28/74-01/24/77	37	200.	263.649	940.	25.	42378.679	205.861	98.	150.	310.	514.
01055	MANGANESE, TOTAL (UG/L AS MN)	01/28/74-01/24/77	37	30.	48.649	180.	5.	1699.512	41.225	10.	20.	80.	112.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/18/76-05/17/78	5 ##	5.	6.	10.	5.	5.	2.236	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/18/76-05/17/78	5 ##	0.699	0.759	1.	0.699	0.018	0.135	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.743								
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	01/28/74-01/24/77	37	7.	8.392	55.	2.	68.238	8.261	4.5	5.	8.5	11.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/28/74-01/24/77	37	20.	25.189	130.	5.	467.158	21.614	10.	16.	30.	42.

** - Less 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: GRSM0078

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	37	0	0.00	19	0	0.00	18	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	1109	4	0.00	553	4	0.01	556	0	0.00						
00400	PH	Other-Hi Lim.	9.	37	0	0.00	19	0	0.00	18	0	0.00						
		Other-Lo Lim.	6.5	37	32	0.86	19	16	0.84	18	16	0.89						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	37	0	0.00	19	0	0.00	18	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	37	0	0.00	19	0	0.00	18	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	37	0	0.00	19	0	0.00	18	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	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



CALDERWOOD POWERHOUSE PENSTOCK

Annual Analysis for 1946 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/02/46-11/05/84	1	3040.	3040.	3040.	3040.	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 GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	13	16.	15.362	18.	10.	6.648	2.578	10.8	13.1	17.6	17.92
00300p	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	13	5.9	6.238	9.1	4.9	1.719	1.311	4.94	5.15	6.85	8.82

** - Less 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 GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	51	12.5	11.978	18.2	6.8	11.626	3.41	7.26	9.	14.9	16.8
00300p	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	50	8.85	8.332	10.7	3.8	3.937	1.984	4.47	7.25	10.	10.4

** - 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 1963 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	52	11.75	11.665	19.	5.	17.819	4.221	5.5	8.	15.	17.85
00300p	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	51	8.4	8.414	15.1	4.7	4.209	2.052	5.6	7.2	9.6	10.78

** - Less 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 GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	48	11.5	10.879	16.	5.	13.473	3.671	5.95	7.	14.5	15.5
00300p	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	47	8.7	8.432	11.1	5.3	2.283	1.511	6.	7.3	9.6	10.34

** - 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

Annual Analysis for 1965 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	48	11.5	11.74	17.5	6.	11.628	3.41	6.5	9.625	14.5	17.
00300p	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	48	8.75	8.202	10.6	4.5	3.137	1.771	5.17	6.675	9.675	10.11

** - 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

Annual Analysis for 1966 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	49	11.5	11.755	18.	5.	12.97	3.601	7.	8.5	14.5	17.
00300p	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	49	8.1	7.906	10.6	5.5	1.534	1.239	6.1	7.05	8.7	9.5

** - 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 1967 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	43	12.	11.967	18.	6.5	12.561	3.544	7.2	8.8	15.	17.
00300p	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	43	9.	8.284	10.7	4.8	3.34	1.828	5.2	6.6	9.7	10.2

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

Annual Analysis for 1968 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	38	11.	11.332	17.	5.5	10.683	3.269	6.98	9.375	13.25	16.73
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/02/46-11/05/84	2	3937.	3937.	6300.	1574.	11167538.	3341.787	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	36	8.5	8.547	11.7	4.1	3.757	1.938	5.65	6.875	10.175	10.76

** - Less 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 GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	27	12.	12.852	18.	9.	9.227	3.038	9.	10.	16.	17.2
00300p	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	27	8.1	8.233	10.8	5.4	2.044	1.43	5.82	7.3	9.5	10.24

** - 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 1970 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	45	12.	12.429	19.5	6.	19.071	4.367	6.5	8.	15.35	19.
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/02/46-11/05/84	11	4600.	4402.091	6327.	2520.	1337999.091	1156.719	2574.4	3698.	5012.	6212.4
00300p	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	45	9.	8.593	11.8	4.7	4.349	2.085	5.5	6.8	10.45	11.24

** - 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 1971 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	42	11.4	11.683	18.3	6.5	10.944	3.308	7.	9.225	13.8	16.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/02/46-11/05/84	37	5339.	5775.432	8081.	1896.	3361984.363	1833.571	3403.2	4588.5	7745.	7915.8
00300p	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	42	9.1	8.66	11.1	5.	3.587	1.894	5.4	7.675	10.325	10.8

** - 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 1972 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	46	11.9	12.124	17.2	7.2	9.386	3.064	7.8	9.35	14.55	16.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/02/46-11/05/84	46	6368.5	5801.565	8015.	0.	4729786.607	2174.807	2367.8	4999.25	7665.	7903.
00300p	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	46	8.9	8.615	11.	4.7	2.822	1.68	6.27	6.9	10.1	10.63

** - Less 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 GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	44	11.25	12.132	18.1	6.7	13.397	3.66	7.2	8.9	15.6	17.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/02/46-11/05/84	44	7563.5	6529.636	10320.	280.	3672786.144	1916.451	4511.5	5086.25	7773.	8081.
00300p	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	43	8.8	8.66	11.2	5.2	2.835	1.684	6.28	7.2	10.3	10.7

** - 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 1974 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	57	12.5	12.867	18.3	7.2	10.556	3.249	9.14	10.	15.7	17.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/02/46-11/05/84	56	6573.	6360.429	10610.	2836.	2238028.795	1496.004	4411.2	5115.5	7708.	7839.
00300p	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	49	8.6	8.229	10.7	4.1	3.842	1.96	5.6	6.4	10.05	10.3

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

Annual Analysis for 1975 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	56	12.2	12.521	19.2	7.2	13.806	3.716	8.1	8.9	15.6	18.3
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/02/46-11/05/84	55	6337.	6204.509	8017.	3258.	1956431.032	1398.725	4306.	5060.	7611.	7840.
00300p	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	53	9.8	9.272	11.2	6.	2.074	1.44	7.04	8.15	10.45	10.8

** - 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 1976 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	55	11.9	11.916	18.3	6.1	15.057	3.88	6.96	8.	15.6	17.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/02/46-11/05/84	52	5596.5	5514.288	8269.	770.	5873875.699	2423.608	1464.4	3903.	7722.75	8012.3
00300p	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	54	9.1	8.933	13.	5.1	3.818	1.954	6.35	7.225	10.8	11.2

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

Annual Analysis for 1977 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	53	12.	11.226	19.	3.5	21.563	4.644	4.2	7.5	15.	17.
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/02/46-11/05/84	50	5905.	5924.58	8193.	1470.	3180530.82	1783.404	3658.	4700.25	7675.75	7860.6
00300p	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	53	8.8	8.855	11.8	6.	2.563	1.601	6.8	7.3	10.4	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

Annual Analysis for 1978 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	52	10.75	10.74	16.5	4.	16.622	4.077	4.65	8.	15.	16.35
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/02/46-11/05/84	52	5081.	5010.077	8195.	700.	4796348.543	2190.057	1820.	3313.25	7516.25	7936.3
00300p	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	52	9.7	9.202	12.2	6.1	2.338	1.529	6.9	8.2	10.5	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

Annual Analysis for 1979 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	55	11.	11.345	17.5	5.	14.341	3.787	6.	8.	14.5	16.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/02/46-11/05/84	55	7546.	6607.618	8373.	1890.	2965741.907	1722.133	3607.8	5256.	7863.	8015.8
00300p	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	55	8.8	9.691	19.6	6.4	8.956	2.993	6.66	7.7	10.6	14.28

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

Annual Analysis for 1980 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	52	11.5	11.588	17.5	6.	14.266	3.777	6.5	8.125	15.5	17.
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/02/46-11/05/84	52	5344.	5430.404	10790.	560.	6907820.442	2628.273	1354.	3411.	7635.25	8148.8
00300p	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	52	8.9	8.448	11.3	5.9	2.023	1.422	6.33	7.125	9.7	10.17

** - 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 1981 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	52	12.	11.606	17.	5.5	11.709	3.422	6.5	8.625	14.	16.
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/02/46-11/05/84	52	4299.	4380.019	8081.	280.	3678940.294	1918.056	1975.3	2731.75	5926.	7256.9
00300p	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	52	8.2	8.194	11.1	6.	1.718	1.311	6.6	6.925	9.2	10.11

** - 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

Annual Analysis for 1982 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	54	12.	11.476	16.5	5.	12.35	3.514	6.5	8.	15.	15.75
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/02/46-11/05/84	54	5101.	5702.944	16000.	1620.	6970762.431	2640.22	2342.	3920.	7725.	8135.5
00300p	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	53	8.6	8.302	10.	4.	1.391	1.18	6.8	7.6	9.3	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

Annual Analysis for 1983 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	50	11.25	11.852	17.	7.	10.546	3.247	8.	9.	14.75	16.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/02/46-11/05/84	50	6191.	5845.7	8293.	1255.	3759901.235	1939.046	2459.	4839.75	7559.5	7886.7
00300p	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	50	8.9	8.358	10.6	5.1	2.352	1.534	6.02	6.95	9.425	10.18

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

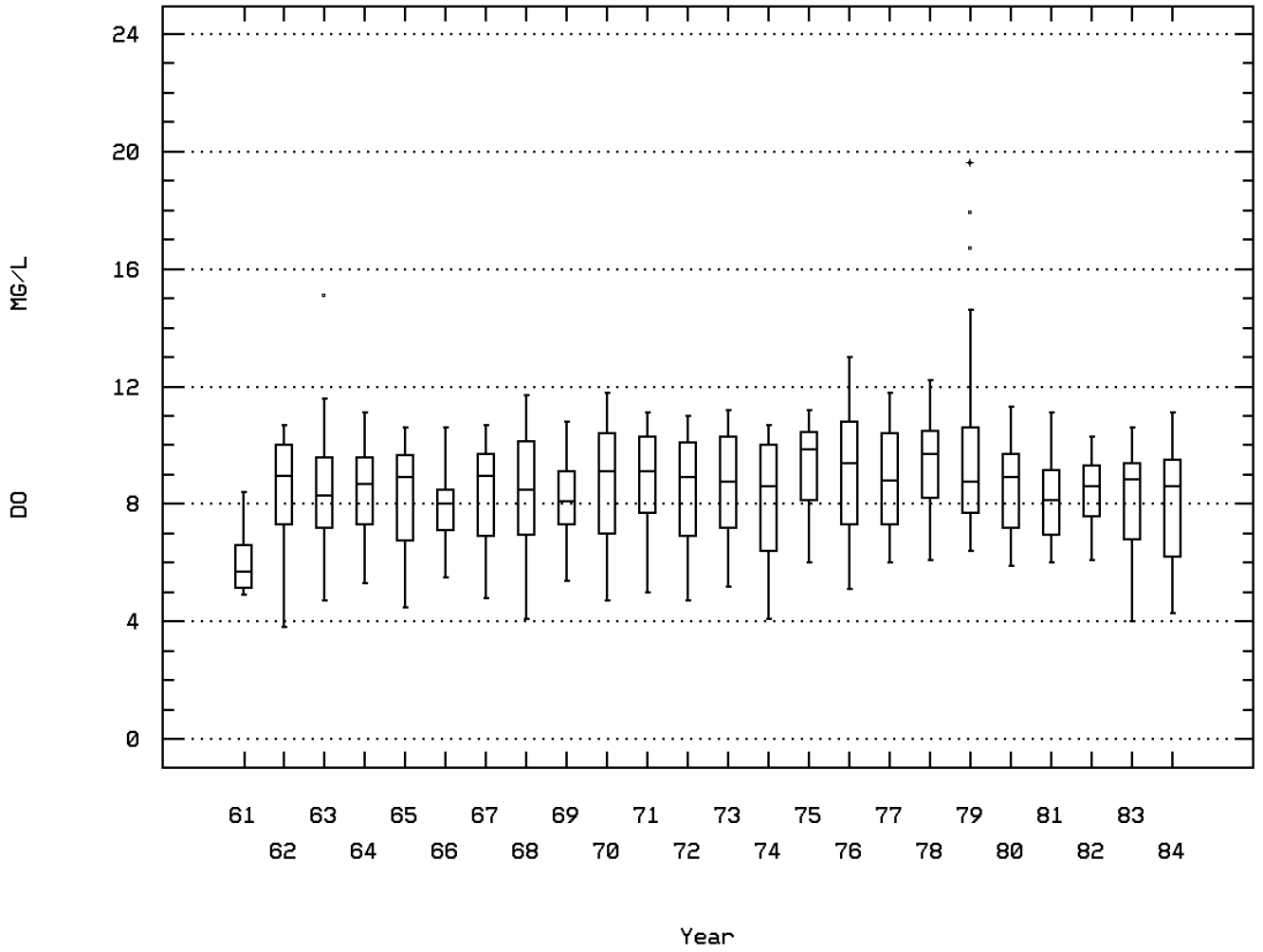
Annual Analysis for 1984 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	46	10.25	11.117	18.5	6.	16.145	4.018	6.5	7.	14.125	17.65
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/02/46-11/05/84	46	6127.	5930.804	8585.	490.	4114263.361	2028.365	2654.5	4926.	7725.	8081.
00300p	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	46	8.6	8.174	11.1	4.3	3.4	1.844	5.27	6.2	9.55	10.43

** - Less 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: GRSM0078 Parameter Code: 00300

OXYGEN, DISSOLVED



CALDERWOOD POWERHOUSE PENSTOCK

Seasonal Analysis for Season #1: 10/01 to 3/31 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	563	10.	11.076	19.5	3.5	19.385	4.403	6.	7.	15.8	17.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/02/46-11/05/84	368	6750.	6319.734	16000.	1255.	3549754.763	1884.079	3844.3	5110.	7725.	7980.
00300	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	553	8.8	8.483	19.6	3.8	4.624	2.15	5.6	6.7	10.2	10.8

** - 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: 4/01 to 9/30 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	565	12.2	12.521	19.	7.	7.016	2.649	9.	10.55	14.5	16.44
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/02/46-11/05/84	347	5060.	5155.885	10300.	0.	4655120.484	2157.573	2135.2	3684.	7210.	7828.
00300	OXYGEN, DISSOLVED MG/L	10/02/61-11/05/84	556	8.7	8.589	17.9	4.3	2.037	1.427	6.67	7.6	9.6	10.3

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

Station Inventory for Station: GRSM0079

NPS Station ID: GRSM0079 LAT/LON: 35.494171/ -83.988893 Agency: 112WRD Date Created: 12/11/78
Location: LITTLE TENNESSEE RIVER AT CALDERWOOD POWERHOUSE FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 03517950
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010204020 RF1 Mile Point: 4.830 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010201073000.00 RF3 Mile Point: 1.24 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0079

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/10/77-05/17/78	2	13.	13.	16.5	9.5	24.5	4.95	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	11/10/77-11/10/77	1	4850.	4850.	4850.	4850.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/10/77-05/17/78	2	10.	10.	10.	10.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/10/77-05/17/78	2	1.	1.	1.	1.	0.	0.	**	**	**	**
31616	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 time series plot

EPA Water Quality Criteria Analysis for Station: GRSM0079

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	2	0	0.00	1	0	0.00	1	0	0.00						

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

Station Inventory for Station: GRSM0080

NPS Station ID: GRSM0080
LAT/LON: 35.495837/ -83.966670
Agency: 12ELS1
Date Created: 04/16/88
Location: CALDERWOOD LAKE
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 3A1-002
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010204
Depth of Water: 147
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010204017900.00
RF3 Mile Point: 0.00
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/20/84-11/20/84	1	15.1	15.1	15.1	15.1	0.	0.	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	11/20/84-11/20/84	1	3.25	3.25	3.25	3.25	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	11/20/84-11/20/84	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/20/84-11/20/84	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00154	SULFATE (AS S) WHOLE WATER, MG/L	11/20/84-11/20/84	1	1.64	1.64	1.64	1.64	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/20/84-11/20/84	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/20/84-11/20/84	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/84-11/20/84	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	11/20/84-11/20/84	1	148.2	148.2	148.2	148.2	0.	0.	**	**	**	**
00662	PHOSPHORUS (P), WATER, TOTAL RECOVERABLE UG/L	11/20/84-11/20/84	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	11/20/84-11/20/84	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	11/20/84-11/20/84	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
00910	CALCIUM (MG/L AS CACO3)	11/20/84-11/20/84	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/20/84-11/20/84	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/20/84-11/20/84	1	1.42	1.42	1.42	1.42	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/20/84-11/20/84	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/20/84-11/20/84	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/20/84-11/20/84	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/20/84-11/20/84	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/20/84-11/20/84	1	113.	113.	113.	113.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	11/20/84-11/20/84	1	38.	38.	38.	38.	0.	0.	**	**	**	**
70151	SURFACE AREA OF LAKE OR RESERVOIR SQ KM	11/20/84-11/20/84	1	2.31	2.31	2.31	2.31	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/20/84-11/20/84	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71885	IRON (UG/L AS FE)	11/20/84-11/20/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	11/20/84-11/20/84	1	1086.02	1086.02	1086.02	1086.02	0.	0.	**	**	**	**
82047	DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	11/20/84-11/20/84	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/20/84-11/20/84	1	1.4	1.4	1.4	1.4	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: GRSM0080

				Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			--------------n/a--------------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00154	SULFATE (AS S) WHOLE WATER	Drinking Water	400.	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: GRSM0080

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	1	1	1.00	1	1	1.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0081

NPS Station ID: GRSM0081
LAT/LON: 35.498059/ -83.763338
Agency: 12NSS
Date Created: 10/22/88
Location: EAGLE CREEK
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 2A07816L /2AS2A07816L
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010202
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 579
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010202
RF1 Mile Point: 0.000
Distance from RF1: 0.50
On/Off RF1:
RF3 Index: 06010203000100.40
RF3 Mile Point: 0.40
Distance from RF3: 0.01
On/Off RF3:
Description:
THESE DATA WERE COLLECTED DURING PHASE I OF THE NATIONAL STREAM SURVEY AS PART OF EPA'S NATIONAL SURFACE WATER SURVEY AND AQUATIC EFFECTS RESEARCH PROGRAM UNDER THE NATIONAL ACID PRECIPITATION ASSESSMENT PROGRAM. THE SURVEY DESIGN, METHODS, AND DATA LIMITAITONS ARE DESCRIBED IN:

Parameter Inventory for Station: GRSM0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/25/85-07/08/85	4	10.55	11.275	18.	6.	33.103	5.753	**	**	**	**
00064	DEPTH OF STREAM, MEAN (FT)	03/25/85-07/08/85	4	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	03/25/85-07/08/85	4	10.	10.	10.	10.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/25/85-07/08/85	4	10.5	10.5	11.	10.	0.333	0.577	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/25/85-07/08/85	4	10.	9.875	11.1	8.4	1.776	1.333	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/25/85-07/08/85	4	6.6	6.6	6.8	6.4	0.033	0.183	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/25/85-07/08/85	4	6.589	6.572	6.8	6.4	0.034	0.185	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/25/85-07/08/85	4	0.258	0.268	0.398	0.158	0.012	0.109	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	03/25/85-07/08/85	4	62.6	61.7	73.2	48.4	111.293	10.55	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	03/25/85-07/08/85	4	2.5	2.5	3.	2.	0.333	0.577	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/85-07/08/85	4	0.009	0.01	0.015	0.006	0.	0.004	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/25/85-07/08/85	4	0.65	0.75	1.2	0.5	0.097	0.311	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	03/25/85-07/08/85	4	0.8	0.775	0.8	0.7	0.003	0.05	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/25/85-07/08/85	4	0.7	0.725	0.8	0.7	0.003	0.05	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/25/85-07/08/85	4	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	03/25/85-07/08/85	4	0.805	0.815	0.88	0.77	0.003	0.051	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/25/85-07/08/85	4	0.42	0.41	0.43	0.37	0.001	0.027	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	03/25/85-07/08/85	4	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/25/85-07/08/85	4	0.9	0.95	1.2	0.8	0.03	0.173	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/25/85-07/08/85	4	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/25/85-07/08/85	4	6.05	5.925	6.5	5.1	0.349	0.591	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/25/85-07/08/85	4	0.5	1.	3.	0.	2.	1.414	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/25/85-07/08/85	4	43.5	46.75	71.	29.	312.25	17.671	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/25/85-07/08/85	4	0.5	0.45	0.5	0.3	0.01	0.1	**	**	**	**
71885	IRON (UG/L AS FE)	03/25/85-07/08/85	4	2.5	3.248	6.99	1.	6.892	2.625	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/25/85-07/08/85	4	1900.	1900.	1900.	1900.	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/25/85-07/08/85	4	0.4	0.425	0.7	0.2	0.042	0.206	**	**	**	**
83509	STREAM, WIDTH METER	03/25/85-07/08/85	4	11.	11.	11.	11.	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: GRSM0081

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Fresh Acute	4.	4	0	0.00	1	0	0.00	3	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	4	0	0.00	1	0	0.00	3	0	0.00						
		Other-Lo Lim.	6.5	4	2	0.50	1	1	1.00	3	1	0.33						
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	4	4	1.00	1	1	1.00	3	3	1.00						
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	4	0	0.00	1	0	0.00	3	0	0.00						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	4	0	0.00	1	0	0.00	3	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	4	0	0.00	1	0	0.00	3	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	4	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: GRSM0082

NPS Station ID: GRSM0082
LAT/LON: 35.502227/ -83.994448
Agency: 131TVAC
Date Created: 12/13/86
Location: CHILHOWEE RESERVOIR
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM/SOLIDS
STORET Station ID(s): 476970
RMI-Indexes: 1021500 007720 00920 8540
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 601.10 041.90
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 41.9
ECO Region:
RF1 Index: 06010204020
RF1 Mile Point: 4.290
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010201002500.00
RF3 Mile Point: 0.00
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	10/06/86-10/06/86	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/06/86-10/06/86	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/06/86-10/06/86	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/06/86-10/06/86	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/06/86-10/06/86	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/06/86-10/06/86	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	10/06/86-10/06/86	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/06/86-10/06/86	1 ##	50.	50.	50.	50.	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

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

Station Inventory for Station: GRSM0083

NPS Station ID: GRSM0083
LAT/LON: 35.504170/ -84.001392
Agency: 131TVAC
Date Created: 06/27/87
Location: CHILHOWEE RESERVOIR
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/FISH/STREAM
STORET Station ID(s): 477021
RMI-Indexes: 1021500 007720 00920 8540
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 601.10 041.50
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 41.5
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010201097200.65
RF3 Mile Point: 2.25
Distance from RF3: 0.38
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00019	SAMPLE WEIGHT IN GRAMS	02/25/87-02/25/87	5	3810.	3900.	4980.	2910.	577850.	760.164	**	**	**	**
00039	SAMPLE LENGTH IN MILLIMETERS	02/25/87-02/25/87	5	640.	641.	684.	590.	1159.	34.044	**	**	**	**
34664	PCB - 1221 WET WGTTISMG/KG	02/25/87-02/25/87	5 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34667	PCB - 1232 WET WGTTISMG/KG	02/25/87-02/25/87	5 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34669	PCB - 1248 WET WGTTISMG/KG	02/25/87-02/25/87	5 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34670	PCB - 1260 WET WGTTISMG/KG	02/25/87-02/25/87	5	0.5	0.72	1.4	0.2	0.297	0.545	**	**	**	**
34674	PCB - 1016 WET WGTTISMG/KG	02/25/87-02/25/87	5 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34689	PCB - 1242 WET WGTTISMG/KG	02/25/87-02/25/87	5 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34690	PCB - 1254 WET WGTTISMG/KG	02/25/87-02/25/87	5	0.4	0.55	1.4	0.05	0.265	0.515	**	**	**	**
39515	PCBS (MG/KG) FISH TISSUE MG/KG	02/25/87-02/25/87	5	0.9	1.26	2.8	0.2	1.088	1.043	**	**	**	**
45579	PERCENT LIPID EXTRACTABLE MATERIAL	02/25/87-02/25/87	5	10.	9.2	14.	2.	23.7	4.868	**	**	**	**

** - Less 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: GRSM0084

NPS Station ID: GRSM0084
LAT/LON: 35.506115/ -83.300560
Agency: 131TVAC
Date Created: / /
Location:
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 360146 /4061
RMI-Indexes: 1021500 007720 00920 8540 4030 0730
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 009.79
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: OCANALUFTEE RIVER 9.79
ECO Region:
RF1 Index: 06010203031
RF1 Mile Point: 3.420
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010203002903.15
RF3 Mile Point: 3.41
Distance from RF3: 0.07
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/30/68-03/24/69	8	11.3	10.525	17.5	1.7	22.871	4.782	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/30/68-03/24/69	8	1.	1.5	4.	0.5	1.643	1.282	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	04/30/68-03/24/69	8	7.5	9.063	20.	2.5	48.103	6.936	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/30/68-03/24/69	8	18.	18.	22.	14.	8.286	2.878	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/30/68-03/24/69	8	9.9	9.35	11.1	4.7	4.023	2.006	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	04/30/68-03/24/69	8 ##	0.5	0.888	2.6	0.5	0.53	0.728	**	**	**	**
00400	PH (STANDARD UNITS)	04/30/68-03/24/69	7	6.8	6.986	7.7	6.5	0.255	0.505	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/30/68-03/24/69	7	6.8	6.787	7.7	6.5	0.301	0.549	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/30/68-03/24/69	7	0.158	0.163	0.316	0.02	0.018	0.132	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/30/68-03/24/69	7	4.	4.429	7.	3.	1.952	1.397	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/30/68-03/24/69	7	0.	0.	0.	0.	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	04/30/68-03/24/69	7	30.	25.714	40.	10.	95.238	9.759	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/30/68-03/24/69	7	20.	22.857	30.	10.	57.143	7.559	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/30/68-03/24/69	8	0.155	0.136	0.27	0.005	0.008	0.092	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/30/68-03/24/69	8	0.02	0.025	0.08	0.005	0.001	0.024	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/30/68-03/24/69	8 ##	0.005	0.009	0.03	0.005	0.	0.009	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/30/68-03/24/69	8	0.16	0.173	0.32	0.05	0.007	0.082	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/21/68-03/24/69	7	0.007	0.012	0.036	0.002	0.	0.013	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/21/68-03/24/69	6	0.007	0.007	0.016	0.002	0.	0.006	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	04/30/68-03/24/69	8	0.75	0.719	1.	0.25	0.097	0.312	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/30/68-03/24/69	8 ##	0.25	0.281	0.5	0.25	0.008	0.088	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	04/30/68-03/24/69	7	0.5	1.179	3.	0.05	1.503	1.226	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	04/30/68-03/24/69	7	1.1	1.614	3.	0.5	1.078	1.038	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/30/68-03/24/69	8	2.	1.813	3.	0.5	0.567	0.753	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/30/68-03/24/69	8	2.	2.813	10.	0.5	8.996	2.999	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	04/30/68-03/24/69	8	0.04	0.043	0.08	0.005	0.001	0.024	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	04/30/68-03/24/69	8	4.9	4.55	7.3	0.5	4.369	2.09	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/30/68-03/24/69	8	170.	198.125	390.	25.	17656.696	132.879	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	04/30/68-03/24/69	7 ##	25.	39.286	100.	25.	803.571	28.347	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	04/30/68-03/24/69	8 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/30/68-03/24/69	8	20.	22.5	50.	10.	221.429	14.88	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/30/68-03/24/69	8	10.	13.125	40.	5.	120.982	10.999	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	04/30/68-03/24/69	8	265.	303.125	800.	5.	53220.982	230.697	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	04/30/68-03/24/69	8	2.419	2.263	2.903	0.699	0.439	0.663	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			183.064								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/30/68-03/24/69	8	10.	58.75	250.	5.	8376.786	91.525	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/30/68-03/24/69	8	1.	1.306	2.398	0.699	0.428	0.654	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			20.237								

** - Less 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: GRSM0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	12/02/68-12/02/68	1	5.	5.	5.	5.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0084

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	8	0	0.00	4	0	0.00	4	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	8	0	0.00	4	0	0.00	4	0	0.00						
00400	PH	Other-Hi Lim.	9.	7	0	0.00	3	0	0.00	4	0	0.00						
		Other-Lo Lim.	6.5	7	2	0.29	3	2	0.67	4	0	0.00						
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	8	0	0.00	4	0	0.00	4	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	8	0	0.00	4	0	0.00	4	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	8	0	0.00	4	0	0.00	4	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	8	0	0.00	4	0	0.00	4	0	0.00						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	8	0	0.00	4	0	0.00	4	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	8	1	0.13	4	0	0.00	4	1	0.25						

& - 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: GRSM0085

NPS Station ID: GRSM0085 LAT/LON: 35.512504/ -83.297226 Agency: 21NC01WQ Date Created: 05/16/77
Location: STRAIGHT FORK CK @ SR1368 @RAVENSFORD IN-750224 FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): G8150000 /LTN027D
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 06010203 Depth of Water: 999 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER ECO Region:
RF1 Index: 06010203032 RF1 Mile Point: 0.290 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010203003205.40 RF3 Mile Point: 5.42 Distance from RF3: 0.09 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0085

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-02/24/75	10	16.5	13.65	19.	5.	31.892	5.647	5.3	8.	18.625	19.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-11/19/74	3	1.5	1.667	2.	1.5	0.083	0.289	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/18/74-02/24/75	6	25.5	25.5	30.	21.	16.3	4.037	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/13/74-02/24/75	10	9.15	10.05	13.6	8.9	2.407	1.552	8.9	9.05	11.	13.4
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-02/24/75	8	95.5	94.875	106.	86.	33.268	5.768	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-02/24/75	9	0.8	0.789	1.5	0.1	0.221	0.47	0.1	0.35	1.2	1.5
00340	COD, .25N K2CR2O7 MG/L	01/29/75-01/29/75	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/13/74-02/24/75	10	6.45	6.56	7.5	6.	0.174	0.417	6.03	6.3	6.8	7.43
00400	CONVERTED PH (STANDARD UNITS)	08/13/74-02/24/75	10	6.447	6.424	7.5	6.	0.194	0.441	6.03	6.3	6.8	7.43
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-02/24/75	10	0.357	0.377	1.	0.032	0.076	0.276	0.044	0.158	0.501	0.95
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/24/75	10	5.	4.7	6.	2.	1.789	1.337	2.1	3.75	6.	6.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/13/74-01/29/75	5	0.	0.	0.	0.	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	08/13/74-02/24/75	8	27.	39.	98.	18.	771.714	27.78	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/13/74-02/24/75	8	17.5	17.75	35.	3.	109.071	10.444	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	08/13/74-02/24/75	8	13.5	21.25	71.	3.	547.643	23.402	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-02/24/75	8	5.	11.25	63.	1.	441.357	21.009	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/13/74-02/24/75	8	2.5	2.625	6.	0.	3.982	1.996	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	08/13/74-02/24/75	7	1.	9.571	59.	0.	477.952	21.862	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-02/24/75	3 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-02/24/75	4	0.15	0.138	0.2	0.05	0.006	0.075	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-02/24/75	4	0.375	0.37	0.47	0.26	0.009	0.097	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/29/75-02/24/75	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-02/24/75	4 ##	0.025	0.059	0.16	0.025	0.005	0.068	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	01/29/75-01/29/75	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-02/24/75	9	30.	48.889	170.	10.	2386.111	48.848	10.	20.	60.	170.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-02/24/75	9	1.477	1.548	2.23	1.	0.127	0.356	1.	1.301	1.772	2.23
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			35.326								
70305	SALINITY BASED ON CONDUCTIVITY	08/18/74-08/19/74	2	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**

** - Less 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: GRSM0085

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	3	0	0.00	1	0	0.00	2	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	10	0	0.00	4	0	0.00	6	0	0.00						
00400	PH	Other-Hi Lim.	9.	10	0	0.00	4	0	0.00	6	0	0.00						
		Other-Lo Lim.	6.5	10	6	0.60	4	4	1.00	6	2	0.33						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	4	0	0.00	3	0	0.00	1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	9	0	0.00	3	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: GRSM0086

NPS Station ID: GRSM0086
LAT/LON: 35.513059/ -83.557504
Agency: 12NSS
Date Created: 10/22/88
Location: FORNEY CREEK
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 2A07817L /2AS2A07817L
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010203
Depth of Water: 3
Aquifer:
Major Basin:
Elevation: 731
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010203
RF1 Mile Point: 0.000
Distance from RF1: 3.20
On/Off RF1:
RF3 Index: 06010202009200.00
RF3 Mile Point: 0.00
Distance from RF3: 0.18
On/Off RF3:
Description:
THESE DATA WERE COLLECTED DURING PHASE I OF THE NATIONAL STREAM SURVEY AS PART OF EPA'S NATIONAL SURFACE WATER SURVEY AND AQUATIC EFFECTS RESEARCH PROGRAM UNDER THE NATIONAL ACID PRECIPITATION ASSESSMENT PROGRAM. THE SURVEY DESIGN, METHODS, AND DATA LIMITAITONS ARE DESCRIBED IN:

Parameter Inventory for Station: GRSM0086

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/20/85-07/03/85	4	9.55	9.325	12.2	6.	10.476	3.237	**	**	**	**
00064	DEPTH OF STREAM, MEAN (FT)	03/20/85-07/03/85	4	2.	2.	2.	2.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	03/20/85-07/03/85	4	10.	8.75	10.	5.	6.25	2.5	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/20/85-07/03/85	4	12.	11.5	12.	10.	1.	1.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/20/85-07/03/85	4	10.4	10.5	12.2	9.	2.387	1.545	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/20/85-07/03/85	4	6.5	6.5	6.6	6.4	0.007	0.082	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/20/85-07/03/85	4	6.5	6.494	6.6	6.4	0.007	0.082	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/20/85-07/03/85	4	0.316	0.32	0.398	0.251	0.004	0.06	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	03/20/85-07/03/85	4	33.4	34.1	40.9	28.7	31.46	5.609	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	03/20/85-07/03/85	4	2.	1.75	2.	1.	0.25	0.5	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/20/85-07/03/85	4	0.007	0.008	0.014	0.003	0.	0.005	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/20/85-07/03/85	4	0.6	0.6	0.8	0.4	0.027	0.163	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	03/20/85-07/03/85	4	0.5	0.5	0.6	0.4	0.013	0.115	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/20/85-07/03/85	4	0.85	0.825	0.9	0.7	0.009	0.096	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/20/85-07/03/85	4	0.2	0.225	0.3	0.2	0.002	0.05	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	03/20/85-07/03/85	4	0.675	0.678	0.71	0.65	0.001	0.028	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/20/85-07/03/85	4	0.355	0.355	0.39	0.32	0.001	0.029	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	03/20/85-07/03/85	4	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/20/85-07/03/85	4	1.25	1.275	1.7	0.9	0.109	0.33	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/20/85-07/03/85	4	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/20/85-07/03/85	4	4.9	4.8	5.4	4.	0.347	0.589	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/20/85-07/03/85	4	1.	0.875	1.5	0.	0.563	0.75	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/20/85-07/03/85	4	51.5	46.75	60.	24.	246.25	15.692	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/20/85-07/03/85	4	1.45	1.325	1.5	0.9	0.082	0.287	**	**	**	**
71885	IRON (UG/L AS FE)	03/20/85-07/03/85	4	2.5	2.5	5.	0.	4.333	2.082	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/20/85-07/03/85	4	2400.	2400.	2400.	2400.	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/20/85-07/03/85	4	0.25	0.325	0.7	0.1	0.069	0.263	**	**	**	**
83509	STREAM, WIDTH METER	03/20/85-07/03/85	4	9.1	9.1	9.1	9.1	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: GRSM0086

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Fresh Acute	4.	4	0	0.00	1	0	0.00	3	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	4	0	0.00	1	0	0.00	3	0	0.00						
		Other-Lo Lim.	6.5	4	3	0.75	1	1	1.00	3	2	0.67						
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	4	4	1.00	1	1	1.00	3	3	1.00						
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	4	0	0.00	1	0	0.00	3	0	0.00						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	4	0	0.00	1	0	0.00	3	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	4	0	0.00	1	0	0.00	3	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	4	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: GRSM0087

NPS Station ID: GRSM0087 LAT/LON: 35.516392/ -83.133337 Agency: 131TVAC Date Created: / /
Location: BRIDGE 100 FEET ABOVE MOUTH OF INDIAN CREEK FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 360086 /5620
RMI-Indexes: 1021500 007720 00920 9300 2520 2380 Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 652.10 073.80 045.90 016.40
HUC: 06010106 Depth of Water: 0 Aquifer:
Major Basin: FRENCH BROAD RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: JONATHANS CREEK 16.4 ECO Region:
RF1 Index: 06010106 RF1 Mile Point: 0.000 Distance from RF1: 2.80 On/Off RF1:
RF3 Index: 06010106003900.00 RF3 Mile Point: 0.00 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0087

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/23/67-03/24/69	17	10.	9.653	17.4	1.5	20.869	4.568	2.78	6.	13.	15.88
00061	FLOW, STREAM, INSTANTANEOUS CFS	01/23/67-05/20/68	11	13.	16.818	32.	9.	67.964	8.244	9.2	10.	27.	31.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/23/67-03/24/69	17	2.	5.059	25.	0.5	51.715	7.191	0.5	0.5	7.	21.
00080	COLOR (PLATINUM-COBALT UNITS)	01/23/67-03/24/69	16	10.	9.531	15.	2.5	23.516	4.849	4.25	5.	15.	15.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/23/67-03/24/69	17	23.	24.118	35.	19.	17.735	4.211	19.8	20.5	26.	31.8
00300	OXYGEN, DISSOLVED MG/L	01/23/67-03/24/69	16	9.55	9.781	12.1	8.	1.311	1.145	8.42	8.9	10.575	11.89
00310	BOD, 5 DAY, 20 DEG C MG/L	01/23/67-03/24/69	17 ##	0.5	1.265	7.3	0.5	2.73	1.652	0.5	0.5	1.15	3.22
00335	COD, .025N K2CR2O7 MG/L	01/23/67-05/27/67	9	12.	15.444	26.	7.	62.528	7.907	7.	8.	23.5	26.
00400	PH (STANDARD UNITS)	01/23/67-03/24/69	15	7.2	7.14	7.5	6.5	0.078	0.28	6.56	7.	7.3	7.44
00400	CONVERTED PH (STANDARD UNITS)	01/23/67-03/24/69	15	7.2	7.037	7.5	6.5	0.09	0.299	6.56	7.	7.3	7.44
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/23/67-03/24/69	15	0.063	0.092	0.316	0.032	0.007	0.081	0.037	0.05	0.1	0.277
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/23/67-03/24/69	14	4.5	5.786	21.	3.	20.181	4.492	3.5	4.	5.25	14.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	01/23/67-03/24/69	15	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)	02/12/67-03/24/69	13	50.	53.462	120.	5.	1014.103	31.845	11.	30.	80.	104.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	02/12/67-03/24/69	9	30.	42.778	110.	5.	1094.444	33.082	5.	20.	65.	110.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	01/23/67-03/24/69	17	0.1	0.147	0.56	0.005	0.027	0.164	0.005	0.04	0.19	0.52
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/23/67-03/24/69	17 ##	0.005	0.02	0.08	0.005	0.001	0.025	0.005	0.005	0.035	0.072
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/23/67-03/24/69	17	0.01	0.011	0.03	0.005	0.	0.008	0.005	0.005	0.02	0.022
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/23/67-03/24/69	17	0.09	0.091	0.16	0.02	0.002	0.041	0.02	0.06	0.115	0.152
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/23/67-03/24/69	17	0.02	0.021	0.072	0.002	0.	0.017	0.002	0.01	0.028	0.046
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	01/23/67-03/24/69	15	0.007	0.012	0.072	0.002	0.	0.017	0.002	0.003	0.01	0.038
00916	CALCIUM, TOTAL (MG/L AS CA)	01/23/67-03/24/69	17	1.	0.971	2.	0.25	0.343	0.586	0.25	0.375	1.5	1.6
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/23/67-03/24/69	17 ##	0.25	0.353	1.	0.25	0.063	0.251	0.25	0.25	0.25	1.
00929	SODIUM, TOTAL (MG/L AS NA)	01/23/67-03/24/69	17	1.6	1.876	4.3	0.9	0.816	0.903	1.22	1.35	1.9	4.06
00937	POTASSIUM, TOTAL MG/L AS K)	01/23/67-03/24/69	17	1.2	1.594	5.5	0.2	1.799	1.341	0.36	0.7	2.4	3.82
00940	CHLORIDE,TOTAL IN WATER MG/L	01/23/67-03/24/69	17	3.	3.176	6.	1.	1.529	1.237	1.	2.5	4.	4.4
00945	SULFATE, TOTAL (MG/L AS SO4)	01/23/67-03/24/69	17	1.	1.324	4.	0.5	0.967	0.983	0.5	0.5	2.	3.2
00951	FLUORIDE, TOTAL (MG/L AS F)	05/02/68-03/24/69	8	0.04	0.036	0.05	0.005	0.	0.016	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	01/23/67-03/24/69	17	5.4	5.094	7.6	0.7	2.594	1.611	2.86	4.1	6.2	6.8
01042	COPPER, TOTAL (UG/L AS CU)	04/30/67-04/30/67	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	01/23/67-03/24/69	17	380.	411.765	860.	80.	54977.941	234.474	96.	225.	620.	772.
01046	IRON, DISSOLVED (UG/L AS FE)	05/02/68-02/19/69	7	50.	56.429	100.	25.	1097.619	33.13	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	01/23/67-03/24/69	17 ##	25.	26.471	50.	25.	36.765	6.063	25.	25.	25.	30.
01055	MANGANESE, TOTAL (UG/L AS MN)	01/23/67-03/24/69	17	20.	115.294	1500.	10.	127813.971	357.511	10.	20.	35.	380.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/02/68-02/19/69	6 ##	7.5	9.167	20.	5.	34.167	5.845	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	04/30/67-04/30/67	1	40.	40.	40.	40.	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	05/02/68-03/24/69	6	200.	1182.5	6400.	5.	6541377.5	2557.612	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	05/02/68-03/24/69	6	2.3	2.208	3.806	0.699	1.012	1.006	**	**	**	**

** - 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: GRSM0087

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			161.312								
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	01/23/67-05/27/67	9	620.	825.556	2300.	280.	392977.778	626.879	280.	350.	1020.	2300.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	01/23/67-05/27/67	9	2.792	2.824	3.362	2.447	0.086	0.293	2.447	2.544	3.007	3.362
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			666.989								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/23/67-05/27/67	9	16.	38.556	110.	1.	1771.028	42.084	1.	11.	73.	110.
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/23/67-05/27/67	9	1.204	1.298	2.041	0.	0.384	0.62	0.	1.041	1.799	2.041
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			19.883								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/02/68-03/24/69	7	10.	25.714	100.	5.	1153.571	33.964	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/02/68-03/24/69	7	1.	1.168	2.	0.699	0.217	0.466	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			14.724								
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	02/23/67-05/04/67	2	8.5	8.5	9.	8.	0.5	0.707	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRSM0087

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	17	0	0.00	9	0	0.00	8	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	16	0	0.00	9	0	0.00	7	0	0.00						
00400	PH	Other-Hi Lim.	9.	15	0	0.00	7	0	0.00	8	0	0.00						
		Other-Lo Lim.	6.5	15	1	0.07	7	1	0.14	8	0	0.00						
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	17	0	0.00	9	0	0.00	8	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	17	0	0.00	9	0	0.00	8	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	17	0	0.00	9	0	0.00	8	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	17	0	0.00	9	0	0.00	8	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						
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00				1	0	0.00						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	6	1	0.17	3	0	0.00	3	1	0.33						
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	9	2	0.22	5	1	0.20	4	1	0.25						
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	9	0	0.00	5	0	0.00	4	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	7	0	0.00	4	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: GRSM0088

NPS Station ID: GRSM0088 LAT/LON: 35.516670/ -83.304170 Agency: 21NC01WQ Date Created: 05/16/77
Location: OCONALUFTEE R @SR1368 N RAVENSFORD INACT-750224 FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): G8050000 /LTN027B
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 06010203 Depth of Water: 999 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER ECO Region:
RF1 Index: 06010203035 RF1 Mile Point: 0.350 Distance from RF1: 11.80 On/Off RF1: OFF
RF3 Index: 06010203003505.81 RF3 Mile Point: 14.15 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0088

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-02/24/75	8	16.5	13.5	23.	4.	47.714	6.908	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-11/19/74	3	3.7	7.567	17.	2.	67.463	8.214	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/19/74-02/24/75	5	27.	25.4	30.	20.	21.3	4.615	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/13/74-02/24/75	8	9.2	10.1	13.7	9.	2.669	1.634	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-02/24/75	6	95.	95.833	105.	83.	69.767	8.353	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-02/24/75	8	0.8	0.763	1.3	0.4	0.1	0.316	**	**	**	**
00400	PH (STANDARD UNITS)	08/13/74-02/24/75	8	6.65	6.587	6.9	6.2	0.073	0.27	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/13/74-02/24/75	8	6.647	6.51	6.9	6.2	0.08	0.282	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-02/24/75	8	0.225	0.309	0.631	0.126	0.043	0.208	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/24/75	8	4.	4.25	7.	3.	1.643	1.282	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/13/74-09/16/74	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	08/13/74-02/24/75	8	26.	41.875	105.	12.	1150.125	33.913	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/13/74-02/24/75	8	21.5	22.	50.	2.	229.429	15.147	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	08/13/74-02/24/75	8	10.5	19.875	85.	1.	794.411	28.185	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-02/24/75	7	6.	11.143	48.	1.	273.476	16.537	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/13/74-02/24/75	7	5.	3.429	5.	1.	3.952	1.988	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	08/13/74-02/24/75	7	2.	7.714	43.	0.	244.571	15.639	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-02/24/75	3 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-02/24/75	3	0.1	0.117	0.2	0.05	0.006	0.076	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-02/24/75	3	0.28	0.317	0.43	0.24	0.01	0.1	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/24/75-02/24/75	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-02/24/75	3 ##	0.025	0.057	0.12	0.025	0.003	0.055	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-02/24/75	8	40.	35.625	60.	5.	295.982	17.204	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-02/24/75	8	1.602	1.47	1.778	0.699	0.118	0.343	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			29.516								
70305	SALINITY BASED ON CONDUCTIVITY	08/19/74-08/19/74	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0088

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	3	0	0.00	1	0	0.00	2	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	8	0	0.00	3	0	0.00	5	0	0.00						

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

EPA Water Quality Criteria Analysis for Station: GRSM0088

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	8	0	0.00	3	0	0.00	5	0	0.00						
		Other-Lo Lim.	6.5	8	3	0.38	3	2	0.67	5	1	0.20						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	3	0	0.00	2	0	0.00	1	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	8	0	0.00	2	0	0.00	6	0	0.00						

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

Station Inventory for Station: GRSM0089

NPS Station ID: GRSM0089 | LAT/LON: 35.516670/ -83.966670 | Agency: 11EPALES | Date Created: / /
Location: RICHLAND CREEK | FIPS State/County: 37000 NORTH CAROLINA/
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): 3709A2 /LS3709A2
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 06010204 | Depth of Water: 0 | Aquifer:
Major Basin: I/LAKE JUNALUSKA | Elevation: 0 | Water Body Id:
Minor Basin: US 19 BY-P AND 23 BY-P BRDG.5 SW OF TOWN | ECO Region:
RF1 Index: 06010204 | RF1 Mile Point: 0.000 | Distance from RF1: 18.10 | On/Off RF1:
RF3 Index: 06010204034401.87 | RF3 Mile Point: 2.41 | Distance from RF3: 0.28 | On/Off RF3:
Description:
AT US 19 BY-P AND 23 BY-P BRDG ABOUT .5 MI SW OF TOWN OF JUNALUSKA

Parameter Inventory for Station: GRSM0089

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.032	0.042	0.126	0.003	0.001	0.032	0.007	0.023	0.056	0.106
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.001	0.002	0.004	0.001	0.	0.001	0.001	0.001	0.003	0.004
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.5	0.462	0.64	0.294	0.014	0.12	0.296	0.349	0.551	0.636
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	13	0.38	0.412	1.3	0.05	0.11	0.332	0.09	0.185	0.575	1.06
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	13	0.5	0.463	0.64	0.29	0.014	0.12	0.294	0.355	0.55	0.636
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/24/74	13	0.04	0.039	0.06	0.02	0.	0.012	0.022	0.03	0.05	0.058
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	13	0.008	0.008	0.016	0.003	0.	0.005	0.003	0.003	0.012	0.016

** - Less 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: GRSM0089

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	13	0	0.00	8	0	0.00	5	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	13	0	0.00	8	0	0.00	5	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	13	0	0.00	8	0	0.00	5	0	0.00						

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

Station Inventory for Station: GRSM0090

NPS Station ID: GRSM0090 | LAT/LON: 35.516670/ -83.975004 | Agency: 11EPALES | Date Created: / /
Location: UNNAMED STREAM | FIPS State/County: 37000 NORTH CAROLINA/
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): 3709B1 /LS3709B1
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 06010204 | Depth of Water: 0 | Aquifer:
Major Basin: T/LAKE JUNALUSKA | Elevation: 0 | Water Body Id:
Minor Basin: RD BRDG SE EDGE GOLF COURSEFAIRWAY HILLS | ECO Region:
RF1 Index: 06010204 | RF1 Mile Point: 0.000 | Distance from RF1: 12.70 | On/Off RF1:
RF3 Index: 06010204034401.87 | RF3 Mile Point: 2.06 | Distance from RF3: 0.19 | On/Off RF3:
Description:
AT SECONDARY RD BRDG AT SE EDGE OF GOLF COURSE AT FAIRWAY HILLS ABOUT 500 FT S OF JCT WITH US HWY 19

Parameter Inventory for Station: GRSM0090

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.056	0.065	0.12	0.02	0.001	0.03	0.028	0.044	0.092	0.114
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.005	0.005	0.01	0.003	0.	0.002	0.003	0.004	0.007	0.009
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	1.24	1.305	1.76	1.1	0.04	0.2	1.1	1.12	1.45	1.664
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	12	0.245	0.401	1.3	0.05	0.169	0.411	0.05	0.088	0.575	1.24
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	13	1.24	1.311	1.76	1.1	0.038	0.196	1.108	1.13	1.45	1.664
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/24/74	12	0.033	0.033	0.05	0.012	0.	0.013	0.012	0.025	0.045	0.05
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	13	0.012	0.012	0.018	0.007	0.	0.003	0.007	0.01	0.016	0.018

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EPA Water Quality Criteria Analysis for Station: GRSM0090

				Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	13	0	0.00	8	0	0.00	5	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	13	0	0.00	8	0	0.00	5	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	13	0	0.00	8	0	0.00	5	0	0.00						

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

Station Inventory for Station: GRSM0091

NPS Station ID: GRSM0091
LAT/LON: 35.520003/ -83.308337
Agency: 112WRD
Date Created: / /
Location: MINGUS CREEK AT RAVENSFORD
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03510815
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010203035
RF1 Mile Point: 0.640
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010203000700.54
RF3 Mile Point: 0.54
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0091

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/73-10/03/77	3	13.5	13.633	15.6	11.8	3.623	1.904	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	10/23/73-08/08/74	2	4.5	4.5	5.	4.	0.5	0.707	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/23/73-03/10/78	4	12.	13.	16.	12.	4.	2.	**	**	**	**
00400	PH (STANDARD UNITS)	10/23/73-08/08/74	2	6.65	6.65	7.	6.3	0.245	0.495	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/23/73-08/08/74	2	6.522	6.522	7.	6.3	0.278	0.527	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-08/08/74	2	0.301	0.301	0.501	0.1	0.08	0.284	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	10/23/73-08/08/74	2	3.35	3.35	5.6	1.1	10.125	3.182	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/23/73-08/08/74	2	6.	6.	6.	6.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/23/73-08/08/74	2	7.	7.	7.	7.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/23/73-10/23/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	10/03/77-03/10/78	2	0.07	0.07	0.14	0.	0.01	0.099	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	10/03/77-03/10/78	2	0.06	0.06	0.12	0.	0.007	0.085	**	**	**	**
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	10/03/77-03/10/78	2	0.045	0.045	0.09	0.	0.004	0.064	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/03/77-03/10/78	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/03/77-03/10/78	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/03/77-03/10/78	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/03/77-03/10/78	2	0.005	0.005	0.01	0.	0.	0.007	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	10/03/77-03/10/78	2 ##	0.075	0.075	0.1	0.05	0.001	0.035	**	**	**	**
00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	10/03/77-03/10/78	2	0.015	0.015	0.03	0.	0.	0.021	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/03/77-03/10/78	2 ##	0.09	0.09	0.13	0.05	0.003	0.057	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/03/77-03/10/78	2 ##	0.03	0.03	0.05	0.01	0.001	0.028	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/03/77-03/10/78	2 ##	0.03	0.03	0.05	0.01	0.001	0.028	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	10/03/77-03/10/78	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/03/77-03/10/78	2	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/03/77-03/10/78	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/03/77-03/10/78	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/23/73-08/08/74	2	3.5	3.5	4.	3.	0.5	0.707	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/23/73-08/08/74	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/23/73-08/08/74	2	0.9	0.9	1.	0.8	0.02	0.141	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/23/73-08/08/74	2	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/23/73-08/08/74	2	1.1	1.1	1.3	0.9	0.08	0.283	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/23/73-08/08/74	2	0.25	0.25	0.3	0.2	0.005	0.071	**	**	**	**
00932	SODIUM, PERCENT	10/23/73-08/08/74	2	32.	32.	32.	32.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/23/73-08/08/74	2	1.25	1.25	1.8	0.7	0.605	0.778	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/23/73-08/08/74	2	0.65	0.65	1.	0.3	0.245	0.495	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/23/73-08/08/74	2	1.4	1.4	2.	0.8	0.72	0.849	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/23/73-08/08/74	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/23/73-08/08/74	2	8.35	8.35	8.5	8.2	0.045	0.212	**	**	**	**

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Parameter Inventory for Station: GRSM0091

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01002	ARSENIC, TOTAL (UG/L AS AS)	10/03/77-03/10/78	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/03/77-03/10/78	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01031	CHROMIUM, SUSPEND (UG/L AS CR)	10/03/77-03/10/78	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/03/77-03/10/78	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/03/77-03/10/78	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01041	COPPER, SUSPENDED (UG/L AS CU)	10/03/77-03/10/78	2	2.	2.	3.	1.	2.	1.414	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/03/77-03/10/78	2 ##	2.	2.	3.	1.	2.	1.414	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/03/77-03/10/78	2	60.	60.	100.	20.	3200.	56.569	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/03/77-03/10/78	2 ##	17.5	17.5	30.	5.	312.5	17.678	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	10/03/77-03/10/78	2	4.	4.	5.	3.	2.	1.414	**	**	**	**
01050	LEAD, SUSPENDED (UG/L AS PB)	10/03/77-03/10/78	2	5.5	5.5	11.	0.	60.5	7.778	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/03/77-03/10/78	2	9.	9.	16.	2.	98.	9.899	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/03/77-03/10/78	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01091	ZINC, SUSPENDED (UG/L ZN)	10/03/77-03/10/78	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/03/77-03/10/78	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	10/03/77-03/10/78	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/23/73-08/08/74	2	13.5	13.5	17.	10.	24.5	4.95	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/23/73-08/08/74	2	17.5	17.5	19.	16.	4.5	2.121	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/23/73-08/08/74	2	0.015	0.015	0.02	0.01	0.	0.007	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/03/77-03/10/78	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	10/03/77-03/10/78	2	0.005	0.005	0.01	0.	0.	0.007	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	03/10/78-03/10/78	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	10/03/77-03/10/78	2	0.3	0.3	0.6	0.	0.18	0.424	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/03/77-03/10/78	2 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/03/77-03/10/78	2	6.	6.	9.	3.	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 time series plot

EPA Water Quality Criteria Analysis for Station: GRSM0091

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	2	1	0.50	1	0	0.00	1	1	1.00						
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	2	0	0.00	2	0	0.00									
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	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									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	1	0	0.00	1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	2	0	0.00	1	0	0.00	1	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00	2	0	0.00									
		Drinking Water	50.	2	0	0.00	2	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00	2	0	0.00									
01031	CHROMIUM, SUSPENDED	Drinking Water	100.	2	0	0.00	2	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	2	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00	2	0	0.00									
		Drinking Water	1300.	2	0	0.00	2	0	0.00									
01041	COPPER, SUSPENDED	Fresh Acute	18.	2	0	0.00	2	0	0.00									
		Drinking Water	1300.	2	0	0.00	2	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00	2	0	0.00									
		Drinking Water	1300.	2	0	0.00	2	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	2	0	0.00	2	0	0.00									
		Drinking Water	5.	2	1	0.50	2	1	0.50									
01050	LEAD, SUSPENDED	Fresh Acute	82.	2	0	0.00	2	0	0.00									
		Drinking Water	5.	2	1	0.50	2	1	0.50									
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00	2	0	0.00									
		Drinking Water	5.	2	1	0.50	2	1	0.50									
01090	ZINC, DISSOLVED	Fresh Acute	120.	2	0	0.00	2	0	0.00									
01091	ZINC, SUSPENDED	Fresh Acute	120.	2	0	0.00	2	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	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: GRSM0091

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	2	0	0.00									
		Drinking Water	50.	2	0	0.00	2	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	2	0	0.00									
		Drinking Water	2.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: GRSM0092

NPS Station ID: GRSM0092 LAT/LON: 35.525004/ -83.966670 Agency: 11EPALES Date Created: / /
Location: RICHLAND CREEK FIPS State/County: 37000 NORTH CAROLINA/
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 3709A1 /LS3709A1
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: T/LAKE JUNALUSKA Elevation: 0 Water Body Id:
Minor Basin: RD BRDG 400 FT BELO DAM-LAKE JUNALUSKA ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010202051400.00 RF3 Mile Point: 0.92 Distance from RF3: 0.09 On/Off RF3:
Description:
AT SECONDARY RD BRDG ABOUT 400 FT BELO DAM AT LAKE JUNALUSKA

Parameter Inventory for Station: GRSM0092

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.08	0.083	0.21	0.025	0.002	0.049	0.025	0.05	0.11	0.171
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.005	0.005	0.009	0.002	0.	0.002	0.002	0.004	0.006	0.008
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.47	0.39	0.7	0.154	0.039	0.198	0.16	0.191	0.56	0.66
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	13	0.5	0.669	1.55	0.25	0.181	0.425	0.27	0.365	0.895	1.518
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	13	0.48	0.395	0.7	0.16	0.039	0.198	0.164	0.2	0.565	0.66
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/10/74	12	0.035	0.044	0.078	0.025	0.	0.019	0.025	0.03	0.064	0.076
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	13	0.008	0.009	0.016	0.003	0.	0.004	0.004	0.006	0.011	0.015

** - Less 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: GRSM0092

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	13	0	0.00	8	0	0.00	5	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	13	0	0.00	8	0	0.00	5	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	13	0	0.00	8	0	0.00	5	0	0.00						

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

Station Inventory for Station: GRSM0093

NPS Station ID: GRSM0093 | LAT/LON: 35.525004/ -83.983337 | Agency: 11EPALES | Date Created: / /
Location: FACTORY BRANCH | FIPS State/County: 37000 NORTH CAROLINA/
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): 3709C1 /LS3709C1
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 06010204 | Depth of Water: 0 | Aquifer:
Major Basin: T/LAKE JUNALUSKA | Elevation: 0 | Water Body Id:
Minor Basin: HWY 19 BRDG .2 MI UPSTREAM FROM W END LK | ECO Region:
RF1 Index: 06010204 | RF1 Mile Point: 0.000 | Distance from RF1: 11.60 | On/Off RF1:
RF3 Index: 06010204034500.00 | RF3 Mile Point: 0.08 | Distance from RF3: 0.04 | On/Off RF3:
Description:
AT US HWY 19 BRDG ABOUT 0.2 MI UPSTREAM FROM WEST END OF LAKE

Parameter Inventory for Station: GRSM0093

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.063	0.075	0.18	0.03	0.001	0.038	0.039	0.054	0.092	0.15
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.005	0.005	0.01	0.002	0.	0.002	0.002	0.003	0.006	0.009
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.8	0.831	1.26	0.595	0.041	0.201	0.605	0.645	0.98	1.16
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	13	0.33	0.597	1.8	0.1	0.308	0.555	0.14	0.2	1.055	1.66
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	13	0.81	0.834	1.26	0.6	0.04	0.2	0.608	0.645	0.985	1.16
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/24/74	13	0.05	0.055	0.12	0.03	0.	0.022	0.034	0.043	0.06	0.1
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	13	0.011	0.013	0.032	0.003	0.	0.007	0.004	0.009	0.015	0.026

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

EPA Water Quality Criteria Analysis for Station: GRSM0093

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	13	0	0.00	8	0	0.00	5	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	13	0	0.00	8	0	0.00	5	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	13	0	0.00	8	0	0.00	5	0	0.00						

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

Station Inventory for Station: GRSM0094

NPS Station ID: GRSM0094
LAT/LON: 35.536392/ -83.208892
Agency: 131TVAC
Date Created: 04/17/82
Location: TRIBUTARY TO RAVEN FORK 7.43
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370042
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0180
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 07.43 03.25
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: BUNCHES CREEK 3.25
ECO Region:
RF1 Index: 06010203
RF1 Mile Point: 0.000
Distance from RF1: 12.00
On/Off RF1:
RF3 Index: 06010203004400.70
RF3 Mile Point: 0.95
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0094

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/26/82-03/26/82	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/82-03/26/82	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/26/82-03/26/82	1	10.2	10.2	10.2	10.2	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	03/26/82-03/26/82	1	6.2	6.2	6.2	6.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/26/82-03/26/82	1	6.2	6.2	6.2	6.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/82-03/26/82	1	0.631	0.631	0.631	0.631	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/26/82-03/26/82	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/26/82-03/26/82	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/82-03/26/82	1	1.259	1.259	1.259	1.259	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/82-03/26/82	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/26/82-03/26/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/26/82-03/26/82	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/26/82-03/26/82	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/26/82-03/26/82	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/26/82-03/26/82	1	4.8	4.8	4.8	4.8	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/26/82-03/26/82	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	03/26/82-03/26/82	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/26/82-03/26/82	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	03/26/82-03/26/82	1	0.98	0.98	0.98	0.98	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	03/26/82-03/26/82	1	0.43	0.43	0.43	0.43	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	03/26/82-03/26/82	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/26/82-03/26/82	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/82-03/26/82	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/26/82-03/26/82	1	3.3	3.3	3.3	3.3	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	03/26/82-03/26/82	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/26/82-03/26/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/26/82-03/26/82	1	140.	140.	140.	140.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/26/82-03/26/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/26/82-03/26/82	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/26/82-03/26/82	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/26/82-03/26/82	1	80.	80.	80.	80.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/26/82-03/26/82	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
32023	ACIDS, STRONG	03/26/82-03/26/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024	ACIDS, WEAK	03/26/82-03/26/82	1	40.	40.	40.	40.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	03/26/82-03/26/82	1	4.	4.	4.	4.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/82-03/26/82	1	20.	20.	20.	20.	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/26/82-03/26/82	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/26/82-03/26/82	1	1.5	1.5	1.5	1.5	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: GRSM0094

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71900	MERCURY, TOTAL (UG/L AS HG)	03/26/82-03/26/82	1 ##	0.1	0.1	0.1	0.1	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: GRSM0094

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	1	0	0.00	1	0	0.00									
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	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									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0095

NPS Station ID: GRSM0095
LAT/LON: 35.543615/ -83.506671
Agency: 12NSS
Date Created: 10/22/88
Location: FORNEY CREEK
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 2A07817U /2AS2A07817U
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010202
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 1292
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010202
RF1 Mile Point: 0.000
Distance from RF1: 1.00
On/Off RF1:
RF3 Index: 06010203004303.08
RF3 Mile Point: 3.07
Distance from RF3: 0.04
On/Off RF3:
Description:
THESE DATA WERE COLLECTED DURING PHASE I OF THE NATIONAL STREAM SURVEY AS PART OF EPA'S NATIONAL SURFACE WATER SURVEY AND AQUATIC EFFECTS RESEARCH PROGRAM UNDER THE NATIONAL ACID PRECIPITATION ASSESSMENT PROGRAM. THE SURVEY DESIGN, METHODS, AND DATA LIMITAITONS ARE DESCRIBED IN:

Parameter Inventory for Station: GRSM0095

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/03/85-07/03/85	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00064	DEPTH OF STREAM, MEAN (FT)	07/03/85-07/03/85	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	07/03/85-07/03/85	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/03/85-07/03/85	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/03/85-07/03/85	1	9.3	9.3	9.3	9.3	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/03/85-07/03/85	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/03/85-07/03/85	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/03/85-07/03/85	1	0.794	0.794	0.794	0.794	0.	0.	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	07/03/85-07/03/85	1	12.2	12.2	12.2	12.2	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	07/03/85-07/03/85	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/03/85-07/03/85	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/03/85-07/03/85	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	07/03/85-07/03/85	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/03/85-07/03/85	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/03/85-07/03/85	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/03/85-07/03/85	1	0.62	0.62	0.62	0.62	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/03/85-07/03/85	1	0.32	0.32	0.32	0.32	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	07/03/85-07/03/85	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/03/85-07/03/85	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/03/85-07/03/85	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/03/85-07/03/85	1	3.9	3.9	3.9	3.9	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/03/85-07/03/85	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/03/85-07/03/85	1	62.	62.	62.	62.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/03/85-07/03/85	1	3.6	3.6	3.6	3.6	0.	0.	**	**	**	**
71885	IRON (UG/L AS FE)	07/03/85-07/03/85	1	1.	1.	1.	1.	0.	0.	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	07/03/85-07/03/85	1	4240.	4240.	4240.	4240.	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/03/85-07/03/85	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
83509	STREAM, WIDTH METER	07/03/85-07/03/85	1	9.1	9.1	9.1	9.1	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: GRSM0095

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Fresh Acute	4.	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	1	1.00				1	1	1.00						
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	1	1	1.00				1	1	1.00						
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0096

NPS Station ID: GRSM0096
LAT/LON: 35.544448/ -84.034726
Agency: 131TVAC
Date Created: 06/27/87
Location: CHILHOWEE RESERVOIR
FIPS State/County: 47123 TENNESSEE/MONROE
Station Type: /TYPA/AMBNT/FISH/STREAM
STORET Station ID(s): 477022
RMI-Indexes: 1021500 007720 00920 8540
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 601.10 034.50
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 34.5
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010204069700.00
RF3 Mile Point: 0.00
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00019	SAMPLE WEIGHT IN GRAMS	02/11/87-02/11/87	10	1110.	1163.	1485.	900.	25451.111	159.534	918.	1091.25	1292.5	1466.5
00039	SAMPLE LENGTH IN MILLIMETERS	02/11/87-02/11/87	10	464.	463.4	492.	415.	453.156	21.287	418.6	456.25	481.	491.2

** - 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

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

Station Inventory for Station: GRSM0097

NPS Station ID: GRSM0097
LAT/LON: 35.546670/ -84.027504
Agency: 131TVAC
Date Created: / /
Location: CHILHOWEE RESERVOIR
FIPS State/County: 47123 TENNESSEE/MONROE
Station Type: /TYPA/AMBNT/STREAM/SOLIDS
STORET Station ID(s): 475856 /3932
RMI-Indexes: 1021500 007720 00920 8540
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 601.10 035.00
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 35.0
ECO Region:
RF1 Index: 06010204019
RF1 Mile Point: 3.480
Distance from RF1: 1.40
On/Off RF1: ON
RF3 Index: 06010204006400.00
RF3 Mile Point: 0.00
Distance from RF3: 0.06
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0097

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	06/27/73-06/27/73	1	76400.	76400.	76400.	76400.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	06/27/73-06/27/73	1	620.	620.	620.	620.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/27/73-06/27/73	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/27/73-06/27/73	1	110.	110.	110.	110.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/27/73-06/27/73	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/27/73-06/27/73	1	21.	21.	21.	21.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/27/73-06/27/73	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/27/73-06/27/73	1	29.	29.	29.	29.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/27/73-06/27/73	1	1000.	1000.	1000.	1000.	0.	0.	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	06/27/73-06/27/73	1 ##	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	1 ##	1.65	1.65	1.65	1.65	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/27/73-06/27/73	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	06/27/73-06/27/73	1 ##	1.65	1.65	1.65	1.65	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/27/73-06/27/73	1 ##	17.	17.	17.	17.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/27/73-06/27/73	1	80.	80.	80.	80.	0.	0.	**	**	**	**
01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/27/73-06/27/73	1 ##	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	06/27/73-06/27/73	1 ##	33.5	33.5	33.5	33.5	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/27/73-06/27/73	1	11000.	11000.	11000.	11000.	0.	0.	**	**	**	**
01133	LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	06/27/73-06/27/73	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/27/73-06/27/73	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/27/73-06/27/73	1	21000.	21000.	21000.	21000.	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/27/73-06/27/73	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
80111	NITROGEN, TOTAL IN DRIED MATERIAL (MG/KG)	06/27/73-06/27/73	1	2500.	2500.	2500.	2500.	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

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

Station Inventory for Station: GRSM0098

NPS Station ID: GRSM0098
LAT/LON: 35.547226/ -83.230560
Agency: 131TVAC
Date Created: 04/17/82
Location: TRIBUTARY TO RAVEN FORK 7.43
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370041
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0180
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 07.43 01.52
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: BUNCHES CREEK 1.52
ECO Region:
RF1 Index: 06010203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010203003400.00
RF3 Mile Point: 0.05
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/26/82-03/26/82	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/82-03/26/82	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/26/82-03/26/82	1	10.6	10.6	10.6	10.6	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	03/26/82-03/26/82	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/26/82-03/26/82	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/82-03/26/82	1	0.794	0.794	0.794	0.794	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: GRSM0098

			Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			--------------n/a--------------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	1	0	0.00	1	0	0.00									
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									

& - 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: GRSM0099

NPS Station ID: GRSM0099 | LAT/LON: 35.550281/ -83.231948 | Agency: 12NSS | Date Created: 10/22/88
Location: BUNCHES CREEK | FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): 2A07818U /2AS2A07818U
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 06010203 | Depth of Water: 0 | Aquifer:
Major Basin: | Elevation: 780 | Water Body Id:
Minor Basin: | ECO Region:
RF1 Index: 06010203 | RF1 Mile Point: 0.000 | Distance from RF1: 1.00 | On/Off RF1:
RF3 Index: 06010203004400.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.06 | On/Off RF3:
Description:
THESE DATA WERE COLLECTED DURING PHASE I OF THE NATIONAL STREAM SURVEY AS PART OF EPA'S NATIONAL SURFACE WATER SURVEY AND AQUATIC EFFECTS RESEARCH PROGRAM UNDER THE NATIONAL ACID PRECIPITATION ASSESSMENT PROGRAM. THE SURVEY DESIGN, METHODS, AND DATA LIMITAITONS ARE DESCRIBED IN:

Parameter Inventory for Station: GRSM0099

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/22/85-07/16/85	2	14.5	14.5	17.	12.	12.5	3.536	**	**	**	**
00064	DEPTH OF STREAM, MEAN (FT)	04/22/85-07/16/85	2	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	04/22/85-07/16/85	2	15.	15.	15.	15.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/22/85-07/16/85	2	16.	16.	17.	15.	2.	1.414	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/22/85-07/16/85	2	8.5	8.5	8.8	8.2	0.18	0.424	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/22/85-07/16/85	2	6.9	6.9	7.	6.8	0.02	0.141	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/22/85-07/16/85	2	6.889	6.889	7.	6.8	0.02	0.142	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/22/85-07/16/85	2	0.129	0.129	0.158	0.1	0.002	0.041	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	04/22/85-07/16/85	2	107.1	107.1	114.7	99.5	115.52	10.748	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	04/22/85-07/16/85	2	4.	4.	5.	3.	2.	1.414	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/22/85-07/16/85	2	0.018	0.018	0.024	0.012	0.	0.008	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	04/22/85-07/16/85	2	0.65	0.65	0.7	0.6	0.005	0.071	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	04/22/85-07/16/85	2	1.25	1.25	1.3	1.2	0.005	0.071	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/22/85-07/16/85	2	1.	1.	1.1	0.9	0.02	0.141	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/22/85-07/16/85	2	0.35	0.35	0.4	0.3	0.005	0.071	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	04/22/85-07/16/85	2	1.19	1.19	1.24	1.14	0.005	0.071	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/22/85-07/16/85	2	0.58	0.58	0.6	0.56	0.001	0.028	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	04/22/85-07/16/85	2	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	04/22/85-07/16/85	2	1.15	1.15	1.3	1.	0.045	0.212	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/22/85-07/16/85	2	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	04/22/85-07/16/85	2	8.5	8.5	8.9	8.1	0.32	0.566	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/22/85-07/16/85	2	1.	1.	2.	0.	2.	1.414	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	04/22/85-07/16/85	2	82.	82.	88.	76.	72.	8.485	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	04/22/85-07/16/85	2	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
71885	IRON (UG/L AS FE)	04/22/85-07/16/85	2	9.99	9.99	12.99	6.99	18.	4.243	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	04/22/85-07/16/85	2	2560.	2560.	2560.	2560.	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	04/22/85-07/16/85	2	2.55	2.55	3.2	1.9	0.845	0.919	**	**	**	**
83509	STREAM, WIDTH METER	04/22/85-07/16/85	2	3.	3.	3.	3.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0099

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Fresh Acute	4.	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						
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	2	2	1.00				2	2	1.00						
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	2	0	0.00				2	0	0.00						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	2	0	0.00				2	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	2	0	0.00				2	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	2	0	0.00				2	0	0.00						

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

Station Inventory for Station: GRSM0100

NPS Station ID: GRSM0100
LAT/LON: 35.552226/ -83.715838
Agency: 12NSS
Date Created: 10/22/88
Location: EAGLE CREEK
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 2A07816U /2AS2A07816U
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010202
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 1231
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010202
RF1 Mile Point: 0.000
Distance from RF1: 2.30
On/Off RF1:
RF3 Index: 06010202011501.03
RF3 Mile Point: 1.02
Distance from RF3: 0.02
On/Off RF3:
Description:
THESE DATA WERE COLLECTED DURING PHASE I OF THE NATIONAL STREAM SURVEY AS PART OF EPA'S NATIONAL SURFACE WATER SURVEY AND AQUATIC EFFECTS RESEARCH PROGRAM UNDER THE NATIONAL ACID PRECIPITATION ASSESSMENT PROGRAM. THE SURVEY DESIGN, METHODS, AND DATA LIMITAITONS ARE DESCRIBED IN:

Parameter Inventory for Station: GRSM0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/08/85-07/08/85	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00064	DEPTH OF STREAM, MEAN (FT)	07/08/85-07/08/85	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	07/08/85-07/08/85	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/08/85-07/08/85	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/08/85-07/08/85	1	9.2	9.2	9.2	9.2	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/08/85-07/08/85	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/08/85-07/08/85	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/08/85-07/08/85	1	0.316	0.316	0.316	0.316	0.	0.	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	07/08/85-07/08/85	1	32.2	32.2	32.2	32.2	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	07/08/85-07/08/85	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/08/85-07/08/85	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/08/85-07/08/85	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	07/08/85-07/08/85	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/08/85-07/08/85	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/08/85-07/08/85	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/08/85-07/08/85	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/08/85-07/08/85	1	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	07/08/85-07/08/85	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/08/85-07/08/85	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/08/85-07/08/85	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/08/85-07/08/85	1	4.1	4.1	4.1	4.1	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/08/85-07/08/85	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/08/85-07/08/85	1	127.	127.	127.	127.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/08/85-07/08/85	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
71885	IRON (UG/L AS FE)	07/08/85-07/08/85	1	2.	2.	2.	2.	0.	0.	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	07/08/85-07/08/85	1	4040.	4040.	4040.	4040.	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/08/85-07/08/85	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
83509	STREAM, WIDTH METER	07/08/85-07/08/85	1	3.	3.	3.	3.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0100

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a 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						
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	1	1	1.00				1	1	1.00						
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0101

NPS Station ID: GRSM0101 LAT/LON: 35.552781/ -83.258337 Agency: 21NC01WQ Date Created: 05/16/77
Location: STRAIGHT FORK CK BELOW RAVEN FORK INACT-750224 FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): G8100000 /LTN027C
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 06010203 Depth of Water: 999 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER ECO Region:
RF1 Index: 06010203032 RF1 Mile Point: 5.510 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010203003500.00 RF3 Mile Point: 0.19 Distance from RF3: 0.09 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0101

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-02/24/75	10	16.5	14.2	22.	4.	37.511	6.125	4.4	8.75	19.	21.7
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-11/19/74	3	3.	4.4	9.	1.2	16.68	4.084	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/18/74-02/24/75	6	25.	25.	29.	22.	8.	2.828	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/13/74-02/24/75	10	9.1	9.95	14.1	8.6	3.078	1.755	8.6	8.675	11.1	13.8
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-02/24/75	7	93.	82.986	108.	9.9	1078.435	32.84	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-02/24/75	9	0.6	0.733	1.4	0.2	0.13	0.361	0.2	0.5	1.	1.4
00340	COD, .25N K2CR2O7 MG/L	01/29/75-01/29/75	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/13/74-02/24/75	10	6.5	6.515	6.9	6.2	0.062	0.249	6.2	6.275	6.725	6.89
00400	CONVERTED PH (STANDARD UNITS)	08/13/74-02/24/75	10	6.489	6.454	6.9	6.2	0.066	0.258	6.2	6.275	6.725	6.89
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-02/24/75	10	0.325	0.352	0.631	0.126	0.036	0.189	0.129	0.189	0.534	0.631
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/24/75	10	4.	4.5	6.	4.	0.5	0.707	4.	4.	5.	5.9
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/13/74-01/29/75	5	0.	0.	0.	0.	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	08/13/74-02/24/75	8	24.	22.75	41.	7.	111.643	10.566	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/13/74-02/24/75	8	10.5	13.875	29.	5.	80.125	8.951	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	08/13/74-02/24/75	8	3.5	8.875	30.	0.	120.125	10.96	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-02/24/75	8	3.5	4.875	14.	2.	14.696	3.834	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/13/74-02/24/75	8	2.	2.125	4.	1.	1.268	1.126	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	08/13/74-02/24/75	7	1.	2.714	11.	0.	15.238	3.904	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-02/24/75	3 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-02/24/75	4	0.2	0.175	0.2	0.1	0.003	0.05	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-02/24/75	4	0.335	0.35	0.43	0.3	0.004	0.059	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/29/75-02/24/75	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-02/24/75	4 ##	0.025	0.031	0.05	0.025	0.	0.013	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	01/29/75-01/29/75	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-02/24/75	9 ##	5.	16.111	50.	5.	298.611	17.28	5.	5.	30.	50.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-02/24/75	9 ##	0.699	1.011	1.699	0.699	0.174	0.417	0.699	0.699	1.452	1.699
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			10.251								
70305	SALINITY BASED ON CONDUCTIVITY	08/18/74-08/19/74	2	0.4	0.4	0.5	0.3	0.02	0.141	**	**	**	**

** - Less 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: GRSM0101

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	3	0	0.00	1	0	0.00	2	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	10	0	0.00	4	0	0.00	6	0	0.00						
00400	PH	Other-Hi Lim.	9.	10	0	0.00	4	0	0.00	6	0	0.00						
		Other-Lo Lim.	6.5	10	5	0.50	4	3	0.75	6	2	0.33						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	4	0	0.00	3	0	0.00	1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	9	0	0.00	3	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: GRSM0102

NPS Station ID: GRSM0102
LAT/LON: 35.552781/ -83.309726
Agency: 131TVAC
Date Created: / /
Location: BRIDGE AT SMOKEMONT CAMPGROUND
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 360147 /4064
RMI-Indexes: 1021500 007720 00920 8540 4030 0730
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 013.96
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: OCONALUFTEE RIVER 13.96
ECO Region:
RF1 Index: 06010203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010203003101.97
RF3 Mile Point: 7.54
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0102

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/30/68-03/24/69	8	11.75	10.6	16.8	2.2	20.86	4.567	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/30/68-03/24/69	8	1.	1.25	3.	0.5	0.714	0.845	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	04/30/68-03/24/69	8	10.	8.75	15.	2.5	25.	5.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/30/68-03/24/69	8	18.	20.25	36.	14.	55.357	7.44	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/30/68-03/24/69	8	9.55	9.675	11.	8.2	0.782	0.884	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	04/30/68-03/24/69	8 ##	0.5	1.075	2.4	0.5	0.659	0.812	**	**	**	**
00400	PH (STANDARD UNITS)	04/30/68-03/24/69	7	6.9	7.014	7.6	6.4	0.208	0.456	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/30/68-03/24/69	7	6.9	6.829	7.6	6.4	0.248	0.498	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/30/68-03/24/69	7	0.126	0.148	0.398	0.025	0.019	0.137	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/30/68-03/24/69	7	5.	4.143	5.	2.	1.476	1.215	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/30/68-03/24/69	7	0.	0.	0.	0.	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	04/30/68-03/24/69	7	30.	28.571	50.	10.	180.952	13.452	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/30/68-03/24/69	7	30.	27.143	50.	10.	157.143	12.536	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/30/68-03/24/69	8	0.115	0.162	0.48	0.005	0.024	0.156	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/30/68-03/24/69	8 ##	0.018	0.031	0.09	0.005	0.001	0.032	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/30/68-03/24/69	8 ##	0.008	0.009	0.02	0.005	0.	0.005	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/30/68-03/24/69	8	0.225	0.2	0.29	0.08	0.007	0.086	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/30/68-03/24/69	8	0.007	0.021	0.104	0.002	0.001	0.035	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/30/68-12/02/68	5	0.016	0.011	0.02	0.002	0.	0.009	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	04/30/68-03/24/69	8	1.	0.781	1.	0.25	0.097	0.312	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/30/68-03/24/69	8 ##	0.25	0.313	0.5	0.25	0.013	0.116	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	04/30/68-03/24/69	7	0.7	1.057	2.3	0.3	0.56	0.748	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	04/30/68-03/24/69	7	1.1	1.557	3.2	0.5	1.046	1.023	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/30/68-03/24/69	8	2.	1.688	2.	0.5	0.353	0.594	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/30/68-03/24/69	8	2.	2.25	5.	1.	1.643	1.282	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	04/30/68-03/24/69	8	0.035	0.042	0.07	0.005	0.001	0.023	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	04/30/68-03/24/69	8	4.55	4.5	6.9	2.6	1.871	1.368	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/21/68-07/21/68	2 ##	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/30/68-03/24/69	8	110.	154.375	540.	25.	26210.268	161.896	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	04/30/68-03/24/69	8 ##	25.	75.625	370.	25.	14338.839	119.745	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	04/30/68-03/24/69	8 ##	25.	34.375	100.	25.	703.125	26.517	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/30/68-03/24/69	8	20.	37.5	120.	10.	1650.	40.62	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/30/68-03/24/69	6	15.	30.833	80.	5.	984.167	31.371	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/21/68-07/21/68	2 ##	47.5	47.5	90.	5.	3612.5	60.104	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	04/30/68-03/24/69	8	135.	140.	300.	5.	13421.429	115.851	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	04/30/68-03/24/69	8	2.128	1.835	2.477	0.699	0.534	0.731	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			68.45								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/30/68-03/24/69	8 ##	5.	27.5	140.	5.	2314.286	48.107	**	**	**	**

** - Less 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: GRSM0102

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/30/68-03/24/69	8 ##	0.699	1.005	2.146	0.699	0.335	0.579	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			10.113								
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	10/21/68-12/02/68	2	4.	4.	5.	3.	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 time series plot

EPA Water Quality Criteria Analysis for Station: GRSM0102

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	8	0	0.00	4	0	0.00	4	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	8	0	0.00	4	0	0.00	4	0	0.00						
00400	PH	Other-Hi Lim.	9.	7	0	0.00	3	0	0.00	4	0	0.00						
		Other-Lo Lim.	6.5	7	1	0.14	3	1	0.33	4	0	0.00						
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	8	0	0.00	4	0	0.00	4	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	8	0	0.00	4	0	0.00	4	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	8	0	0.00	4	0	0.00	4	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	8	0	0.00	4	0	0.00	4	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00				2	0	0.00						
		Drinking Water	1300.	2	0	0.00				2	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00				2	0	0.00						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	8	0	0.00	4	0	0.00	4	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	8	0	0.00	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: GRSM0103

NPS Station ID: GRSM0103
LAT/LON: 35.553059/ -83.999171
Agency: 21TNWQ
Date Created: 03/28/92
Location: CHILHOWEE RESERVOIR @ ABRAMS CREEK
FIPS State/County: 47123 TENNESSEE/MONROE
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): CHILHOWEE02
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010204
Depth of Water: 46
Aquifer:
Major Basin: TENNESSEE RIVER
Elevation: 0
Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 0.40
On/Off RF1:
RF3 Index: 06010204018500.00
RF3 Mile Point: 0.07
Distance from RF3: 0.02
On/Off RF3:
Description:
1991 CLEAN LAKES STATEWIDE ASSESSMENT LOCATION

Parameter Inventory for Station: GRSM0103

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/23/91-09/30/91	6	16.45	17.783	25.2	12.4	22.342	4.727	**	**	**	**
00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	05/23/91-09/30/91	6	18.05	21.333	45.9	3.3	407.403	20.184	**	**	**	**
00077	TRANSPARENCY, SECCHI DISC (INCHES)	05/23/91-09/30/91	6	138.	143.	157.	134.	120.8	10.991	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/23/91-09/30/91	5	29.	25.8	31.	15.	43.7	6.611	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/23/91-09/30/91	6	7.35	7.45	9.1	5.1	2.227	1.492	**	**	**	**
00400	PH (STANDARD UNITS)	05/23/91-08/01/91	4	6.65	6.663	7.14	6.21	0.146	0.382	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/23/91-08/01/91	4	6.647	6.545	7.14	6.21	0.164	0.405	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/23/91-08/01/91	4	0.225	0.285	0.617	0.072	0.055	0.234	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/23/91-09/30/91	6 ##	0.01	0.013	0.03	0.005	0.	0.009	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/23/91-09/30/91	6	0.11	0.12	0.19	0.05	0.003	0.057	**	**	**	**
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	05/23/91-09/30/91	6	0.2	0.408	1.5	0.05	0.292	0.541	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/23/91-09/30/91	6 ##	0.008	0.054	0.25	0.005	0.01	0.098	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/01/91-08/01/91	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/23/91-09/30/91	3 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/23/91-09/30/91	3	117.	239.	543.	57.	70212.	264.975	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/23/91-09/30/91	2	45.	45.	68.	22.	1058.	32.527	**	**	**	**
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	05/23/91-09/30/91	3	2.5	2.767	4.	1.8	1.263	1.124	**	**	**	**

** - Less 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: GRSM0103

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	6	0	0.00				6	0	0.00						
00400	PH	Other-Hi Lim.	9.	4	0	0.00				4	0	0.00						
		Other-Lo Lim.	6.5	4	1	0.25				4	1	0.25						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	6	0	0.00				6	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	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: GRSM0104

NPS Station ID: GRSM0104 LAT/LON: 35.555281/ -83.998892 Agency: 131TVAC Date Created: 12/13/86
Location: CHILHOWEE RESERVOIR - MOUTH OF ABRAMS CREEK FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM/SOLIDS STORET Station ID(s): 476971
RMI-Indexes: 1021500 007720 00920 8540 Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 601.10 037.00
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 37.0 ECO Region:
RF1 Index: 06010204019 RF1 Mile Point: 6.060 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010204002005.31 RF3 Mile Point: 8.38 Distance from RF3: 0.03 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0104

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	10/06/86-10/06/86	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/06/86-10/06/86	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/06/86-10/06/86	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/06/86-10/06/86	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/06/86-10/06/86	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/06/86-10/06/86	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	10/06/86-10/06/86	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/06/86-10/06/86	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
81900	SEDIMENT CORE SAMPLE,UPPER DEPTH,REPORT IN INCHES	10/06/86-10/06/86	2	1.51	1.51	3.01	0.01	4.5	2.121	**	**	**	**
81901	SEDIMENT CORE SAMPLE, LOWER DEPTH,REPORT IN INCHES	10/06/86-10/06/86	2	4.	4.	5.	3.	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 time series plot

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

Station Inventory for Station: GRSM0105

NPS Station ID: GRSM0105 LAT/LON: 35.558615/ -83.248059 Agency: 131TVAC Date Created: / /
Location: ROAD CROSSING 0.5 MILE SW OF STRAIGHT FK MOUTH FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 360148 /4067
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 07.41
HUC: 06010203 Depth of Water: 0 Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN Elevation: 0 Water Body Id:
Minor Basin: RAVEN FORK 7.41 ECO Region:
RF1 Index: 06010203 RF1 Mile Point: 0.000 Distance from RF1: 1.20 On/Off RF1:
RF3 Index: 06010203003504.07 RF3 Mile Point: 4.94 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0105

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/30/68-03/24/69	9	11.9	11.089	17.5	1.7	23.084	4.805	1.7	7.95	14.75	17.5
00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/30/68-03/24/69	9	1.	1.222	3.	0.5	0.632	0.795	0.5	0.75	1.5	3.
00080	COLOR (PLATINUM-COBALT UNITS)	04/30/68-03/24/69	9	10.	9.722	25.	2.5	47.569	6.897	2.5	5.	12.5	25.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/30/68-03/24/69	9	17.	18.778	25.	13.	18.444	4.295	13.	15.	22.5	25.
00300	OXYGEN, DISSOLVED MG/L	04/30/68-03/24/69	9	9.6	9.344	11.	5.9	2.15	1.466	5.9	8.9	10.2	11.
00310	BOD, 5 DAY, 20 DEG C MG/L	04/30/68-03/24/69	9 ##	0.5	0.7	1.3	0.5	0.098	0.312	0.5	0.5	1.	1.3
00400	PH (STANDARD UNITS)	04/30/68-03/24/69	8	6.9	6.925	7.6	6.4	0.196	0.443	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/30/68-03/24/69	8	6.9	6.755	7.6	6.4	0.23	0.479	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/30/68-03/24/69	8	0.126	0.176	0.398	0.025	0.021	0.145	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/30/68-03/24/69	8	4.	4.125	6.	3.	0.982	0.991	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/30/68-03/24/69	8	0.	0.	0.	0.	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	04/30/68-03/24/69	8	20.	26.25	50.	10.	169.643	13.025	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/30/68-03/24/69	8	20.	23.125	50.	5.	220.982	14.865	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/30/68-03/24/69	9	0.15	0.182	0.44	0.005	0.019	0.14	0.005	0.065	0.295	0.44
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/30/68-03/24/69	9 ##	0.005	0.022	0.08	0.005	0.001	0.028	0.005	0.005	0.04	0.08
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/30/68-03/24/69	9 ##	0.005	0.011	0.03	0.005	0.	0.009	0.005	0.005	0.015	0.03
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/30/68-03/24/69	9	0.21	0.218	0.39	0.14	0.006	0.076	0.14	0.155	0.245	0.39
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/30/68-03/24/69	9	0.007	0.011	0.023	0.002	0.	0.008	0.002	0.003	0.018	0.023
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/30/68-03/24/69	8	0.007	0.007	0.016	0.002	0.	0.005	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	04/30/68-03/24/69	9	0.5	0.722	1.5	0.25	0.288	0.537	0.25	0.25	1.25	1.5
00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/30/68-03/24/69	9 ##	0.25	0.25	0.25	0.25	0.	0.	0.25	0.25	0.25	0.25
00929	SODIUM, TOTAL (MG/L AS NA)	04/30/68-03/24/69	8	0.55	0.825	2.9	0.05	0.936	0.967	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	04/30/68-03/24/69	8	1.15	1.575	5.1	0.2	2.505	1.583	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/30/68-03/24/69	9	2.	1.722	2.	0.5	0.319	0.565	0.5	1.5	2.	2.
00945	SULFATE, TOTAL (MG/L AS SO4)	04/30/68-03/24/69	9	1.	1.556	3.	1.	0.528	0.726	1.	1.	2.	3.
00951	FLUORIDE, TOTAL (MG/L AS F)	04/30/68-03/24/69	9	0.04	0.047	0.1	0.005	0.001	0.027	0.005	0.03	0.065	0.1
00956	SILICA, TOTAL (MG/L AS SI02)	04/30/68-03/24/69	9	4.8	4.589	7.	1.4	2.966	1.722	1.4	3.55	6.1	7.
01045	IRON, TOTAL (UG/L AS FE)	04/30/68-03/24/69	9	120.	147.222	290.	25.	8144.444	90.247	25.	75.	235.	290.
01046	IRON, DISSOLVED (UG/L AS FE)	04/30/68-03/24/69	9 ##	25.	56.667	280.	5.	7206.25	84.89	5.	25.	50.	280.
01047	IRON, FERROUS (UG/L AS FE)	04/30/68-03/24/69	8 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/30/68-03/24/69	9	30.	94.444	550.	10.	30202.778	173.789	10.	10.	90.	550.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/30/68-03/24/69	9	20.	66.111	390.	5.	15348.611	123.89	5.	10.	65.	390.
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	04/30/68-03/24/69	9	200.	492.778	2900.	5.	826131.944	908.918	5.	120.	325.	2900.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	04/30/68-03/24/69	9	2.301	2.256	3.462	0.699	0.514	0.717	0.699	2.073	2.506	3.462
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			180.16								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/30/68-03/24/69	9 ##	5.	201.111	1700.	5.	316392.361	562.488	5.	5.	40.	1700.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/30/68-03/24/69	9 ##	0.699	1.141	3.23	0.699	0.757	0.87	0.699	0.699	1.423	3.23
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			13.837								

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: GRSM0105

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	9	0	0.00	4	0	0.00	5	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	9	0	0.00	4	0	0.00	5	0	0.00						
00400	PH	Other-Hi Lim.	9.	8	0	0.00	3	0	0.00	5	0	0.00						
		Other-Lo Lim.	6.5	8	3	0.38	3	3	1.00	5	0	0.00						
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	9	0	0.00	4	0	0.00	5	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	9	0	0.00	4	0	0.00	5	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	9	0	0.00	4	0	0.00	5	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	9	0	0.00	4	0	0.00	5	0	0.00						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	9	1	0.11	4	0	0.00	5	1	0.20						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	9	1	0.11	4	0	0.00	5	1	0.20						

& - 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: GRSM0106

NPS Station ID: GRSM0106 | LAT/LON: 35.559726/ -83.246949 | Agency: 12NSS | Date Created: 10/22/88
Location: BUNCHES CREEK | FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): 2A07818L /2AS2A07818L
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 06010203 | Depth of Water: 0 | Aquifer:
Major Basin: | Elevation: 731 | Water Body Id:
Minor Basin: | ECO Region:
RF1 Index: 06010203 | RF1 Mile Point: 0.000 | Distance from RF1: 18.90 | On/Off RF1:
RF3 Index: 06010203004305.14 | RF3 Mile Point: 5.74 | Distance from RF3: 0.06 | On/Off RF3:
Description:
THESE DATA WERE COLLECTED DURING PHASE I OF THE NATIONAL STREAM SURVEY AS PART OF EPA'S NATIONAL SURFACE WATER SURVEY AND AQUATIC EFFECTS RESEARCH PROGRAM UNDER THE NATIONAL ACID PRECIPITATION ASSESSMENT PROGRAM. THE SURVEY DESIGN, METHODS, AND DATA LIMITAITONS ARE DESCRIBED IN:

Parameter Inventory for Station: GRSM0106

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/25/85-07/16/85	4	9.15	10.325	18.	5.	33.689	5.804	**	**	**	**
00064	DEPTH OF STREAM, MEAN (FT)	03/25/85-07/16/85	4	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	03/25/85-07/16/85	4	12.5	12.5	15.	10.	8.333	2.887	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/25/85-07/16/85	4	15.	15.25	17.	14.	1.583	1.258	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/25/85-07/16/85	4	10.7	10.25	11.6	8.	2.97	1.723	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/25/85-07/16/85	4	6.8	6.8	7.1	6.5	0.06	0.245	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/25/85-07/16/85	4	6.8	6.749	7.1	6.5	0.063	0.252	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/25/85-07/16/85	4	0.158	0.178	0.316	0.079	0.01	0.099	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	03/25/85-07/16/85	4	91.7	96.05	117.7	83.1	231.583	15.218	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	03/25/85-07/16/85	4	4.	4.25	5.	4.	0.25	0.5	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/85-07/16/85	4	0.013	0.013	0.019	0.007	0.	0.005	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/25/85-07/16/85	4	0.6	0.65	0.8	0.6	0.01	0.1	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	03/25/85-07/16/85	4	1.25	1.225	1.4	1.	0.029	0.171	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/25/85-07/16/85	4	1.	1.	1.1	0.9	0.007	0.082	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/25/85-07/16/85	4	0.3	0.325	0.4	0.3	0.003	0.05	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	03/25/85-07/16/85	4	1.11	1.138	1.26	1.07	0.008	0.09	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/25/85-07/16/85	4	0.54	0.55	0.62	0.5	0.003	0.056	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	03/25/85-07/16/85	4	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/25/85-07/16/85	4	1.15	1.125	1.2	1.	0.009	0.096	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/25/85-07/16/85	4	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/25/85-07/16/85	4	8.55	8.35	8.9	7.4	0.47	0.686	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/25/85-07/16/85	4	1.5	1.75	4.	0.	4.25	2.062	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/25/85-07/16/85	4	86.	88.	124.	56.	1042.667	32.29	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/25/85-07/16/85	4	0.85	0.825	0.9	0.7	0.009	0.096	**	**	**	**
71885	IRON (UG/L AS FE)	03/25/85-07/16/85	4	9.49	9.243	15.99	2.	32.868	5.733	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/25/85-07/16/85	4	2400.	2400.	2400.	2400.	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/25/85-07/16/85	4	1.35	1.8	3.7	0.8	1.807	1.344	**	**	**	**
83509	STREAM, WIDTH METER	03/25/85-07/16/85	4	8.8	8.8	8.8	8.8	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: GRSM0106

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Fresh Acute	4.	4	0	0.00	1	0	0.00	3	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	4	0	0.00	1	0	0.00	3	0	0.00						
		Other-Lo Lim.	6.5	4	1	0.25	1	1	1.00	3	0	0.00						
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	4	4	1.00	1	1	1.00	3	3	1.00						
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	4	0	0.00	1	0	0.00	3	0	0.00						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	4	0	0.00	1	0	0.00	3	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	4	0	0.00	1	0	0.00	3	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	4	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: GRSM0107

NPS Station ID: GRSM0107
LAT/LON: 35.563059/ -83.847226
Agency: 112WRD
Date Created: / /
Location: FORGE CREEK NEAR CADES COVE, TENN
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03518110
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010204004100.00
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0107

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	09/24/68-09/24/68	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	09/24/68-09/24/68	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/24/68-09/24/68	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/24/68-09/24/68	1	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/24/68-09/24/68	1	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/24/68-09/24/68	1	2.512	2.512	2.512	2.512	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/24/68-09/24/68	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/24/68-09/24/68	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/24/68-09/24/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/24/68-09/24/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/24/68-09/24/68	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/24/68-09/24/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/24/68-09/24/68	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/24/68-09/24/68	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/24/68-09/24/68	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/24/68-09/24/68	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/24/68-09/24/68	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/24/68-09/24/68	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/24/68-09/24/68	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/24/68-09/24/68	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/24/68-09/24/68	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/24/68-09/24/68	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/24/68-09/24/68	1	60.	60.	60.	60.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/24/68-09/24/68	1	28.	28.	28.	28.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/24/68-09/24/68	1	17.	17.	17.	17.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/24/68-09/24/68	1	0.21	0.21	0.21	0.21	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/24/68-09/24/68	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/24/68-09/24/68	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0107

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						

& - 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: GRSM0108

NPS Station ID: GRSM0108
LAT/LON: 35.565281/ -83.245837
Agency: 131TVAC
Date Created: 04/17/82
Location: TRIBUTARY TO RAVEN FORK 7.43
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370040
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0180
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 07.43 00.23
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: BUNCHES CREEK 0.23
ECO Region:
RF1 Index: 06010203034
RF1 Mile Point: 0.310
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010203003304.22
RF3 Mile Point: 4.64
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0108

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/26/82-03/26/82	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/82-03/26/82	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/26/82-03/26/82	1	10.2	10.2	10.2	10.2	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	03/26/82-03/26/82	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/26/82-03/26/82	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/82-03/26/82	1	0.794	0.794	0.794	0.794	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/26/82-03/26/82	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/26/82-03/26/82	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/82-03/26/82	1	1.259	1.259	1.259	1.259	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/82-03/26/82	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/26/82-03/26/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/26/82-03/26/82	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/26/82-03/26/82	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/26/82-03/26/82	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/26/82-03/26/82	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/26/82-03/26/82	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	03/26/82-03/26/82	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/26/82-03/26/82	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	03/26/82-03/26/82	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	03/26/82-03/26/82	1	0.49	0.49	0.49	0.49	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	03/26/82-03/26/82	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/26/82-03/26/82	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/82-03/26/82	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/26/82-03/26/82	1	3.6	3.6	3.6	3.6	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	03/26/82-03/26/82	1	3.9	3.9	3.9	3.9	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/26/82-03/26/82	1	46.	46.	46.	46.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/26/82-03/26/82	1	210.	210.	210.	210.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/26/82-03/26/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/26/82-03/26/82	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/26/82-03/26/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/26/82-03/26/82	1	210.	210.	210.	210.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/26/82-03/26/82	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
32023	ACIDS, STRONG	03/26/82-03/26/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024	ACIDS, WEAK	03/26/82-03/26/82	1	50.	50.	50.	50.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	03/26/82-03/26/82	1	5.	5.	5.	5.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/82-03/26/82	1	10.	10.	10.	10.	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/26/82-03/26/82	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/26/82-03/26/82	1	1.4	1.4	1.4	1.4	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: GRSM0108

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71900	MERCURY, TOTAL (UG/L AS HG)	03/26/82-03/26/82	1 ##	0.1	0.1	0.1	0.1	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: GRSM0108

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	1	0	0.00	1	0	0.00									
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	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									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0109

NPS Station ID: GRSM0109 LAT/LON: 35.566670/ -83.333338 Agency: 21NC01WQ Date Created: 05/16/77
Location: OCONALUFTEE R @US441 NR SMOKEMONT INACT-750224 FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): G8000000 /LTN027A
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 06010203 Depth of Water: 999 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER ECO Region:
RF1 Index: 06010203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010202000100.56 RF3 Mile Point: 0.56 Distance from RF3: 0.05 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0109

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-02/24/75	10	16.	12.95	18.	4.	24.358	4.935	4.4	8.75	16.375	17.95
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-11/19/74	3	1.5	3.2	6.9	1.2	10.29	3.208	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/18/74-02/24/75	6	26.5	26.	31.	21.	13.6	3.688	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/13/74-02/24/75	10	9.15	10.09	14.	8.8	2.928	1.711	8.8	8.875	11.275	13.75
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-02/24/75	8	93.	94.5	107.	90.	34.571	5.88	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-02/24/75	9	0.6	0.667	1.5	0.2	0.138	0.371	0.2	0.45	0.8	1.5
00340	COD, .25N K2CR2O7 MG/L	01/29/75-01/29/75	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/13/74-02/24/75	10	6.5	6.51	7.1	6.2	0.088	0.296	6.2	6.2	6.7	7.06
00400	CONVERTED PH (STANDARD UNITS)	08/13/74-02/24/75	10	6.5	6.431	7.1	6.2	0.095	0.307	6.2	6.2	6.7	7.06
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-02/24/75	10	0.316	0.37	0.631	0.079	0.044	0.211	0.091	0.2	0.631	0.631
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/24/75	10	4.	4.2	6.	3.	0.844	0.919	3.	3.75	5.	5.9
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/13/74-01/29/75	5	0.	0.	0.	0.	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	08/13/74-02/24/75	8	14.	19.625	47.	3.	239.125	15.464	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/13/74-02/24/75	8	5.	8.5	31.	2.	93.714	9.681	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	08/13/74-02/24/75	8	7.5	11.125	34.	0.	114.411	10.696	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-02/24/75	8	2.	3.125	8.	0.	7.268	2.696	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/13/74-02/24/75	8	2.	1.75	4.	0.	1.357	1.165	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	08/13/74-02/24/75	7	0.	1.286	6.	0.	4.905	2.215	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-02/24/75	3 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-02/24/75	4	0.15	0.138	0.2	0.05	0.006	0.075	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-02/24/75	4	0.205	0.215	0.28	0.17	0.003	0.051	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/29/75-02/24/75	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-02/24/75	4 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	01/29/75-01/29/75	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-02/24/75	9 ##	5.	17.222	80.	5.	619.444	24.889	5.	5.	20.	80.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-02/24/75	9 ##	0.699	0.986	1.903	0.699	0.187	0.432	0.699	0.699	1.239	1.903
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			9.685								
70305	SALINITY BASED ON CONDUCTIVITY	08/18/74-08/19/74	2	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**

** - Less 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: GRSM0109

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	3	0	0.00	1	0	0.00	2	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	10	0	0.00	4	0	0.00	6	0	0.00						
00400	PH	Other-Hi Lim.	9.	10	0	0.00	4	0	0.00	6	0	0.00						
		Other-Lo Lim.	6.5	10	6	0.60	4	4	1.00	6	2	0.33						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	4	0	0.00	3	0	0.00	1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	9	0	0.00	3	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: GRSM0110

NPS Station ID: GRSM0110
LAT/LON: 35.566948/ -83.243892
Agency: 131TVAC
Date Created: 12/12/81
Location: TRIBUTARY TO RAVEN FORK 8.38
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370022
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0200
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 08.38 00.09
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: STRAIGHT FORK 0.09
ECO Region:
RF1 Index: 06010203034
RF1 Mile Point: 0.200
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010203003401.82
RF3 Mile Point: 2.04
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0110

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/12/81-03/26/82	3	6.9	7.233	8.	6.8	0.443	0.666	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/12/81-03/26/82	3	12.	13.	17.	10.	13.	3.606	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	12/02/81-03/26/82	2	11.8	11.8	12.7	10.9	1.62	1.273	**	**	**	**
00400	PH (STANDARD UNITS)	11/12/81-03/26/82	3	5.9	5.833	6.	5.6	0.043	0.208	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/12/81-03/26/82	3	5.9	5.799	6.	5.6	0.045	0.212	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/81-03/26/82	3	1.259	1.59	2.512	1.	0.654	0.809	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/12/81-03/26/82	3	6.	6.	6.4	5.6	0.16	0.4	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/12/81-03/26/82	3	6.	5.885	6.4	5.6	0.18	0.424	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/81-03/26/82	3	1.	1.303	2.512	0.398	1.186	1.089	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/12/81-03/26/82	3	1.	1.5	3.	0.5	1.75	1.323	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	11/12/81-03/26/82	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	11/12/81-12/02/81	2	3.5	3.5	4.	3.	0.5	0.707	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/12/81-03/26/82	3 ##	0.5	20.	59.	0.5	1140.75	33.775	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/26/82-03/26/82	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/26/82-03/26/82	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/26/82-03/26/82	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/26/82-03/26/82	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	11/12/81-03/26/82	3	1.2	1.733	3.	1.	1.213	1.102	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	11/12/81-03/26/82	3	0.3	0.3	0.4	0.2	0.01	0.1	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	11/12/81-03/26/82	3	0.89	0.863	0.9	0.8	0.003	0.055	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	11/12/81-03/26/82	3	0.46	0.463	0.54	0.39	0.006	0.075	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/12/81-03/26/82	3 ##	0.5	0.467	0.5	0.4	0.003	0.058	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/02/81-03/26/82	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/82-03/26/82	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/26/82-03/26/82	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	03/26/82-03/26/82	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/26/82-03/26/82	1	32.	32.	32.	32.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	11/12/81-03/26/82	3	82.	116.	216.	50.	7756.	88.068	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	11/12/81-03/26/82	3 ##	5.	4.167	5.	2.5	2.083	1.443	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/26/82-03/26/82	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	11/12/81-03/26/82	3	8.	7.333	9.	5.	4.333	2.082	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	11/12/81-03/26/82	3	80.	71.667	110.	25.	1858.333	43.108	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/26/82-03/26/82	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
32023	ACIDS, STRONG	03/26/82-03/26/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024	ACIDS, WEAK	03/26/82-03/26/82	1	50.	50.	50.	50.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	11/12/81-03/26/82	3	4.	5.333	9.	3.	10.333	3.215	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/12/81-03/26/82	3	20.	23.333	40.	10.	233.333	15.275	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/02/81-12/02/81	1	11.	11.	11.	11.	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: GRSM0110

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/26/82-03/26/82	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/26/82-03/26/82	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	03/26/82-03/26/82	1 ##	0.1	0.1	0.1	0.1	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: GRSM0110

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	2	0	0.00	2	0	0.00									
00400	PH	Other-Hi Lim.	9.	3	0	0.00	3	0	0.00									
		Other-Lo Lim.	6.5	3	3	1.00	3	3	1.00									
00403	PH, LAB	Other-Hi Lim.	9.	3	0	0.00	3	0	0.00									
		Other-Lo Lim.	6.5	3	3	1.00	3	3	1.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	3	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	2	0	0.00	2	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									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	3	0	0.00	3	0	0.00									
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0111

NPS Station ID: GRSM0111
LAT/LON: 35.581392/ -83.264448
Agency: 131TVAC
Date Created: 01/09/82
Location: TRIBUTARY TO OCONOLUFTEE RIVER 10.26
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370028
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 10.14
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: DIVERSION DITCH ADJ. TO RAVEN FORK 10.14
ECO Region:
RF1 Index: 06010203034
RF1 Mile Point: 1.980
Distance from RF1: 6.40
On/Off RF1: OFF
RF3 Index: 06010203005000.00
RF3 Mile Point: 0.48
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0111

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/29/82-07/29/82	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/29/82-07/29/82	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/29/82-07/29/82	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/82-07/29/82	1	3.162	3.162	3.162	3.162	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/29/82-07/29/82	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/29/82-07/29/82	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/82-07/29/82	1	1.585	1.585	1.585	1.585	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/29/82-07/29/82	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	07/29/82-07/29/82	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/29/82-07/29/82	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/29/82-07/29/82	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	12/01/81-12/01/81	3	1.4	2.933	6.1	1.3	7.523	2.743	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/01/81-12/01/81	3	0.4	0.367	0.4	0.3	0.003	0.058	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	12/01/81-12/01/81	3	0.72	3.923	10.5	0.55	32.447	5.696	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	12/01/81-12/01/81	3	0.68	0.67	0.78	0.55	0.013	0.115	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/29/82-07/29/82	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/29/82-07/29/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/29/82-07/29/82	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/29/82-07/29/82	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	07/29/82-07/29/82	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	12/01/81-12/01/81	3	237.	181.	240.	66.	9921.	99.604	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	12/01/81-12/01/81	3	51.	41.667	53.	21.	321.333	17.926	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	12/01/81-12/01/81	3	11.	10.333	15.	5.	25.333	5.033	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/81-07/29/82	4	465.	420.	580.	170.	35533.333	188.503	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/29/82-07/29/82	1	190.	190.	190.	190.	0.	0.	**	**	**	**
32023	ACIDS, STRONG	07/29/82-07/29/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024	ACIDS, WEAK	07/29/82-07/29/82	1	50.	50.	50.	50.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	12/01/81-12/01/81	3	5.	9.	17.	5.	48.	6.928	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	07/29/82-07/29/82	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	07/29/82-07/29/82	1	2.6	2.6	2.6	2.6	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 time series plot

EPA Water Quality Criteria Analysis for Station: GRSM0111

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	3	0	0.00	3	0	0.00									
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0112

NPS Station ID: GRSM0112
LAT/LON: 35.584171/ -83.265004
Agency: 131TVAC
Date Created: 12/12/81
Location: TRIBUTARY TO OCONALUFTEE RIVER 10.26
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370021
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 10.45
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: RAVEN FORK 10.45
ECO Region:
RF1 Index: 06010203034
RF1 Mile Point: 2.130
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010203005000.00
RF3 Mile Point: 0.17
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0112

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/12/81-08/01/82	36	8.2	10.108	20.9	0.	27.177	5.213	5.73	7.	13.95	20.22
00061	FLOW, STREAM, INSTANTANEOUS CFS	11/30/81-08/02/82	328	161.5	232.604	1763.	28.	64284.619	253.544	51.9	72.	234.	571.3
00065	STAGE, STREAM (FEET)	11/30/81-08/02/82	328	1.605	1.671	4.19	0.92	0.282	0.531	1.129	1.25	1.81	2.422
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/12/81-06/21/82	13	14.	14.231	19.	10.	5.026	2.242	10.8	14.	14.	18.6
00123	PRECIPITATION,CUMULATIVE AT GIVEN TIME,LOC.1(IN)	11/30/81-08/02/82	328	0.	0.045	1.85	0.	0.032	0.179	0.	0.	0.	0.11
00134	STORM EVENT SERIAL NUMBER MAXIMUM OF 6 SIG.FIG.	11/30/81-03/19/82	86	4.	3.698	6.	1.	3.743	1.935	1.	2.	6.	6.
00300	OXYGEN, DISSOLVED MG/L	12/01/81-06/21/82	6	11.65	11.65	14.2	9.8	2.599	1.612	**	**	**	**
00400	PH (STANDARD UNITS)	11/12/81-08/01/82	135	4.6	4.707	6.1	3.5	0.423	0.65	3.9	4.2	5.3	5.6
00400	CONVERTED PH (STANDARD UNITS)	11/12/81-08/01/82	135	4.6	4.326	6.1	3.5	0.569	0.754	3.9	4.2	5.3	5.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/81-08/01/82	135	25.119	47.165	316.228	0.794	3759.501	61.315	2.512	5.012	63.096	125.893
00403	PH, LAB, STANDARD UNITS SU	11/12/81-08/01/82	149	4.9	5.006	6.5	4.3	0.205	0.453	4.5	4.7	5.2	5.7
00403	CONVERTED PH, LAB, STANDARD UNITS	11/12/81-08/01/82	149	4.9	4.838	6.5	4.3	0.233	0.483	4.5	4.7	5.2	5.7
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/81-08/01/82	149	12.589	14.505	50.119	0.316	111.454	10.557	1.995	6.31	19.953	31.623
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/12/81-06/21/82	96	1.	0.99	4.	0.	0.505	0.711	0.	0.5	1.	2.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	11/12/81-06/21/82	96	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00435	ACIDITY, TOTAL (MG/L AS CACO3)	11/12/81-12/02/81	2	4.	4.	5.	3.	2.	1.414	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/12/81-06/21/82	96	3.	5.906	76.	0.5	128.149	11.32	0.5	1.	6.	12.3
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/21/82-08/01/82	114	0.035	0.074	0.64	0.005	0.01	0.098	0.005	0.01	0.1	0.185
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/21/82-01/23/82	23	0.74	0.748	1.1	0.53	0.017	0.129	0.614	0.66	0.83	0.9
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/17/82-08/01/82	91 ##	0.02	0.024	0.2	0.02	0.	0.022	0.02	0.02	0.02	0.02
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/21/82-01/23/82	23	0.05	0.05	0.12	0.005	0.001	0.035	0.005	0.02	0.07	0.1
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/26/82-08/01/82	64	7.1	8.413	45.	1.6	46.468	6.817	2.45	5.725	9.3	13.5
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/26/82-08/01/82	64	4.75	4.633	8.	0.9	3.127	1.768	1.95	3.625	5.7	7.25
00916	CALCIUM, TOTAL (MG/L AS CA)	11/12/81-08/01/82	130	1.1	1.192	9.2	0.8	0.542	0.736	0.9	1.	1.2	1.39
00927	MAGNESIUM, TOTAL (MG/L AS MG)	11/12/81-08/01/82	130	0.3	0.343	0.7	0.2	0.006	0.079	0.3	0.3	0.4	0.4
00929	SODIUM, TOTAL (MG/L AS NA)	11/12/81-08/01/82	130	0.67	0.701	1.6	0.36	0.034	0.185	0.56	0.61	0.72	0.896
00937	POTASSIUM, TOTAL MG/L AS K)	11/12/81-08/01/82	130	0.465	0.497	0.92	0.39	0.009	0.096	0.421	0.44	0.52	0.589
00940	CHLORIDE,TOTAL IN WATER MG/L	11/12/81-08/01/82	126	0.5	0.487	1.	0.2	0.012	0.111	0.4	0.4	0.5	0.6
00945	SULFATE, TOTAL (MG/L AS SO4)	11/30/81-08/01/82	140	2.	2.025	4.	0.5	0.48	0.693	1.	2.	2.	3.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/17/82-08/01/82	91	0.04	0.094	1.2	0.02	0.022	0.147	0.02	0.03	0.11	0.2
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/26/82-08/01/82	64	1.5	1.577	2.5	0.8	0.171	0.414	1.05	1.3	1.9	2.2
00956	SILICA, TOTAL (MG/L AS SI02)	03/26/82-08/01/82	71	1.6	1.797	3.6	0.9	0.298	0.546	1.2	1.4	2.2	2.5
01042	COPPER, TOTAL (UG/L AS CU)	03/26/82-06/21/82	12	20.	17.833	30.	10.	53.97	7.346	10.	10.	20.75	30.
01045	IRON, TOTAL (UG/L AS FE)	11/12/81-06/21/82	101	160.	318.604	2800.	44.	208989.342	457.154	96.	120.	349.	545.4
01055	MANGANESE, TOTAL (UG/L AS MN)	11/12/81-06/21/82	101	22.	39.124	530.	2.5	4403.497	66.359	8.	13.	40.	62.2
01067	NICKEL, TOTAL (UG/L AS NI)	03/26/82-06/21/82	12 ##	0.5	1.917	9.	0.5	10.947	3.309	0.5	0.5	0.5	9.
01092	ZINC, TOTAL (UG/L AS ZN)	11/12/81-06/21/82	47	8.	21.191	300.	5.	2401.897	49.009	5.	5.	16.	30.
01105	ALUMINUM, TOTAL (UG/L AS AL)	11/12/81-08/01/82	160	365.	476.813	2900.	50.	187153.927	432.613	141.	242.5	520.	887.

** - Less 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: GRSM0112

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/26/82-08/01/82	64	190.	202.109	430.	25.	6888.734	82.998	130.	142.5	257.5	310.
32023	ACIDS, STRONG	01/21/82-08/01/82	114	20.	14.912	70.	5.	116.806	10.808	5.	5.	20.	30.
32024	ACIDS, WEAK	01/21/82-08/01/82	114	80.	80.526	150.	40.	504.145	22.453	50.	70.	100.	110.
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	11/12/81-08/01/82	130	4.	4.354	26.	3.	4.184	2.045	3.	4.	5.	5.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/12/81-06/21/82	96	20.	18.073	50.	5.	86.51	9.301	5.	10.	20.	30.
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	11/30/81-01/03/82	34	9.5	9.765	34.	0.5	41.322	6.428	2.	5.75	13.	15.5
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/17/82-08/01/82	91	0.06	0.114	0.8	0.005	0.019	0.137	0.005	0.03	0.2	0.3
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/17/82-08/01/82	91	3.5	3.582	5.7	1.4	0.633	0.796	2.72	3.1	3.9	4.8
71900	MERCURY, TOTAL (UG/L AS HG)	03/26/82-06/21/82	12 ##	0.1	0.1	0.1	0.1	0.	0.	0.1	0.1	0.1	0.1

** - 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: GRSM0112

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	6	0	0.00	4	0	0.00	2	0	0.00						
00400	PH	Other-Hi Lim.	9.	135	0	0.00	80	0	0.00	55	0	0.00						
		Other-Lo Lim.	6.5	135	135	1.00	80	80	1.00	55	55	1.00						
00403	PH, LAB	Other-Hi Lim.	9.	149	0	0.00	86	0	0.00	63	0	0.00						
		Other-Lo Lim.	6.5	149	149	1.00	86	86	1.00	63	63	1.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	23	0	0.00	23	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	126	0	0.00	63	0	0.00	63	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	140	0	0.00	77	0	0.00	63	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	12	7	0.58	1	1	1.00	11	6	0.55						
		Drinking Water	1300.	12	0	0.00	1	0	0.00	11	0	0.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	12	0	0.00	1	0	0.00	11	0	0.00						
		Drinking Water	100.	12	0	0.00	1	0	0.00	11	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	47	2	0.04	36	0	0.00	11	2	0.18						
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	91	0	0.00	28	0	0.00	63	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	12	0	0.00	1	0	0.00	11	0	0.00						
		Drinking Water	2.	12	0	0.00	1	0	0.00	11	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: GRSM0113

NPS Station ID: GRSM0113
LAT/LON: 35.584171/ -83.265004
Agency: 131TVAC
Date Created: 01/23/82
Location: TRIBUTARY TO OCONALUFTEE RIVER 10.26
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370029
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 10.45
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: RAVEN FORK 10.45 HYDROLAB STATION
ECO Region:
RF1 Index: 06010203034
RF1 Mile Point: 2.130
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010203003401.22
RF3 Mile Point: 1.22
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0113

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/02/81-10/20/82	513	9.8	10.088	15.9	0.1	10.704	3.272	7.	8.3	13.1	14.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/02/81-10/20/82	513	10.	10.585	26.	3.	9.903	3.147	9.	9.	11.	12.
00300	OXYGEN, DISSOLVED MG/L	12/02/81-10/20/82	513	10.7	10.731	14.2	7.2	0.955	0.977	9.7	9.9	11.2	11.7
00400	PH (STANDARD UNITS)	12/02/81-10/20/82	512	5.425	5.324	6.5	4.06	0.17	0.412	4.71	5.113	5.578	5.71
00400	CONVERTED PH (STANDARD UNITS)	12/02/81-10/20/82	512	5.425	5.086	6.5	4.06	0.227	0.476	4.71	5.113	5.577	5.71
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/02/81-10/20/82	512	3.759	8.195	87.096	0.316	147.399	12.141	1.95	2.646	7.718	19.498

** - Less 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: GRSM0113

			Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			----------n/a----------			----------n/a----------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	513	0	0.00	513	0	0.00									
00400 PH	Other-Hi Lim.	9.	512	0	0.00	512	0	0.00									
	Other-Lo Lim.	6.5	512	512	1.00	512	512	1.00									

& - 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: GRSM0114

NPS Station ID: GRSM0114
LAT/LON: 35.584171/ -83.838059
Agency: 131TVAC
Date Created: 09/03/94
Location: CHILHOWEE RESERVOIR
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM/SOLIDS
STORET Station ID(s): 477628
RMI-Indexes: 1021500 007720 00920 8540 1930 0320
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 037.00 015.79 002.15
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: MILL CREEK 2.15
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010201002800.00
RF3 Mile Point: 2.05
Distance from RF3: 0.10
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0114

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/16/93-04/13/94	5	6.4	8.28	13.3	4.5	18.807	4.337	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/15/93-04/13/94	6	10.	15.783	56.	0.7	412.362	20.307	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/16/93-04/13/94	5	8.	8.4	11.	6.	4.3	2.074	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	11/16/93-04/13/94	5	10.5	10.64	12.	9.8	0.813	0.902	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/15/93-04/13/94	6 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/16/93-04/13/94	5	6.4	6.34	6.6	6.1	0.053	0.23	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/16/93-04/13/94	5	6.4	6.292	6.6	6.1	0.056	0.236	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/16/93-04/13/94	5	0.398	0.511	0.794	0.251	0.07	0.264	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/15/93-04/13/94	6	4.	4.333	6.	4.	0.667	0.816	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/15/93-04/13/94	6 ##	1.25	2.083	6.	0.5	4.742	2.178	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/93-04/13/94	6	0.02	0.022	0.05	0.01	0.	0.015	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/93-04/13/94	6	0.14	0.121	0.16	0.005	0.004	0.06	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/93-04/13/94	6	0.006	0.009	0.02	0.004	0.	0.006	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/15/93-04/13/94	6	3.5	4.167	8.	2.	5.767	2.401	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/15/93-06/15/94	7	1.	1.	1.	1.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0114

				Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	5	0	0.00	4	0	0.00	1	0	0.00						
00400	PH	Other-Hi Lim.	9.	5	0	0.00	4	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	5	4	0.80	4	3	0.75	1	1	1.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	6	0	0.00	4	0	0.00	2	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	7	0	0.00	4	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: GRSM0115

NPS Station ID: GRSM0115
LAT/LON: 35.585559/ -83.237227
Agency: 131TVAC
Date Created: 08/28/82
Location: TRIBUTARY TO RAVEN FORK 8.38
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370046
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0200
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 08.38 01.60
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: STRAIGHT FORK 1.60
ECO Region:
RF1 Index: 06010203033
RF1 Mile Point: 1.600
Distance from RF1: 5.10
On/Off RF1: OFF
RF3 Index: 06010203041200.00
RF3 Mile Point: 0.93
Distance from RF3: 0.41
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0115

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/11/82-08/11/82	1	15.7	15.7	15.7	15.7	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/11/82-08/11/82	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/11/82-08/11/82	1	9.2	9.2	9.2	9.2	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/11/82-08/11/82	1	5.3	5.3	5.3	5.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/11/82-08/11/82	1	5.3	5.3	5.3	5.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/11/82-08/11/82	1	5.012	5.012	5.012	5.012	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/11/82-08/11/82	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/11/82-08/11/82	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/11/82-08/11/82	1	0.501	0.501	0.501	0.501	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/11/82-08/11/82	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/11/82-08/11/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/11/82-08/11/82	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/11/82-08/11/82	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/11/82-08/11/82	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	08/11/82-08/11/82	1	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	08/11/82-08/11/82	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/11/82-08/11/82	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	08/11/82-08/11/82	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	08/11/82-08/11/82	1	0.63	0.63	0.63	0.63	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/11/82-08/11/82	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/11/82-08/11/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/11/82-08/11/82	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/11/82-08/11/82	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	08/11/82-08/11/82	1	4.7	4.7	4.7	4.7	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/11/82-08/11/82	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/11/82-08/11/82	1	4600.	4600.	4600.	4600.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/11/82-08/11/82	1	390.	390.	390.	390.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	08/11/82-08/11/82	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/11/82-08/11/82	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/11/82-08/11/82	1	5900.	5900.	5900.	5900.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/11/82-08/11/82	1	250.	250.	250.	250.	0.	0.	**	**	**	**
32023	ACIDS, STRONG	08/11/82-08/11/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024	ACIDS, WEAK	08/11/82-08/11/82	1	170.	170.	170.	170.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	08/11/82-08/11/82	1	5.	5.	5.	5.	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	08/11/82-08/11/82	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	08/11/82-08/11/82	1	1.2	1.2	1.2	1.2	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: GRSM0115

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	1	0	0.00				1	0	0.00						
00400	PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	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						
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00				1	0	0.00						
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0116

NPS Station ID: GRSM0116 LAT/LON: 35.585559/ -83.237227 Agency: 131TVAC Date Created: 08/28/82
Location: TRIBUTARY TO RAVEN FORK 8.38 FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 370047
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0200 Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 08.38 01.60
HUC: 06010203 Depth of Water: 0 Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN Elevation: 0 Water Body Id:
Minor Basin: STRAIGHT FORK 1.6 HYDROLAB STATION ECO Region:
RF1 Index: 06010203033 RF1 Mile Point: 1.600 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010203003300.28 RF3 Mile Point: 3.98 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0116

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-10/20/82	380	13.55	13.044	17.5	7.1	9.038	3.006	8.81	10.1	16.	16.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-10/20/82	380	10.	12.316	17.	9.	8.913	2.985	10.	10.	16.	17.
00300	OXYGEN, DISSOLVED MG/L	07/27/82-10/20/82	380	9.5	9.738	11.4	8.3	0.438	0.662	9.1	9.3	10.3	10.8
00400	PH (STANDARD UNITS)	07/27/82-10/20/82	380	5.85	5.846	6.11	5.05	0.024	0.154	5.691	5.8	5.91	6.03
00400	CONVERTED PH (STANDARD UNITS)	07/27/82-10/20/82	380	5.85	5.81	6.11	5.05	0.025	0.158	5.691	5.8	5.91	6.03
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/82-10/20/82	380	1.413	1.548	8.913	0.776	0.864	0.93	0.933	1.23	1.585	2.037

** - Less 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: GRSM0116

				Total	Exceed	Prop.	10/01-3/31			4/01-9/30			n/a			n/a		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	380	0	0.00	238	0	0.00	142	0	0.00						
00400	PH	Other-Hi Lim.	9.	380	0	0.00	238	0	0.00	142	0	0.00						
		Other-Lo Lim.	6.5	380	380	1.00	238	238	1.00	142	142	1.00						

& - 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: GRSM0117

NPS Station ID: GRSM0117
LAT/LON: 35.590559/ -83.852782
Agency: 131TVAC
Date Created: 09/03/94
Location: CHILHOWEE RESERVOIR
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM/SOLIDS
STORET Station ID(s): 477629
RMI-Indexes: 1021500 007720 00920 8540 1930 0320
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 037.00 015.79 009.80
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: MILL CREEK 0.09
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010201002800.00
RF3 Mile Point: 2.05
Distance from RF3: 0.10
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0117

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/16/93-04/13/94	5	7.	8.38	13.6	3.6	20.142	4.488	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/15/93-04/13/94	6	37.5	62.167	233.	4.	7310.967	85.504	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/16/93-04/13/94	5	9.	10.	15.	8.	8.5	2.915	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	11/16/93-04/13/94	5	10.6	10.64	12.	9.6	0.868	0.932	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/15/93-04/13/94	6 ##	1.	0.917	1.	0.5	0.042	0.204	**	**	**	**
00400	PH (STANDARD UNITS)	11/16/93-04/13/94	5	6.5	6.54	6.7	6.3	0.028	0.167	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/16/93-04/13/94	5	6.5	6.514	6.7	6.3	0.029	0.17	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/16/93-04/13/94	5	0.316	0.307	0.501	0.2	0.015	0.123	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/15/93-04/13/94	6	5.	6.167	10.	4.	5.367	2.317	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/15/93-04/13/94	6 ##	1.25	5.583	27.	0.5	111.142	10.542	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/93-04/13/94	6	0.01	0.017	0.05	0.01	0.	0.016	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/93-04/13/94	6	0.1	0.084	0.11	0.005	0.002	0.041	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/93-04/13/94	6	0.01	0.013	0.04	0.004	0.	0.013	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/15/93-04/13/94	6	5.	5.167	9.	2.	5.767	2.401	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/15/93-06/15/94	7	1.	2.429	11.	1.	14.286	3.78	**	**	**	**

** - Less 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: GRSM0117

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	5	0	0.00	4	0	0.00	1	0	0.00						
00400	PH	Other-Hi Lim.	9.	5	0	0.00	4	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	5	3	0.60	4	2	0.50	1	1	1.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	6	0	0.00	4	0	0.00	2	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	7	0	0.00	4	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: GRSM0118

NPS Station ID: GRSM0118
LAT/LON: 35.591948/ -83.853059
Agency: 131TVAC
Date Created: 09/03/94
Location: CHILHOWEE RESERVOIR
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM/SOLIDS
STORET Station ID(s): 477627
RMI-Indexes: 1021500 007720 00920 8540 1930
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 037.00 015.87
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: ABRAMS CREEK 15.87
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010201002800.00
RF3 Mile Point: 2.05
Distance from RF3: 0.10
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0118

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/16/93-05/03/94	6	9.9	10.217	14.1	7.2	7.898	2.81	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	11/16/93-05/03/94	6	36.5	67.067	279.	0.4	11077.307	105.249	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/16/93-05/03/94	6	47.5	50.833	115.	12.	1303.767	36.108	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	11/16/93-05/03/94	6	9.1	9.217	10.4	8.5	0.53	0.728	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/15/93-03/16/94	5 ##	1.	0.9	1.	0.5	0.05	0.224	**	**	**	**
00400	PH (STANDARD UNITS)	11/16/93-05/03/94	6	7.3	7.083	7.9	6.	0.426	0.652	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/16/93-05/03/94	6	7.3	6.644	7.9	6.	0.657	0.811	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/16/93-05/03/94	6	0.05	0.227	1.	0.013	0.148	0.384	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/16/93-04/13/94	5	30.	38.8	82.	14.	669.2	25.869	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/15/93-03/16/94	5	2.	1.9	3.	0.5	0.8	0.894	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/93-04/13/94	6	0.01	0.015	0.04	0.01	0.	0.012	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/93-04/13/94	6	0.215	0.2	0.24	0.11	0.002	0.048	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/93-04/13/94	6	0.01	0.015	0.03	0.01	0.	0.008	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/15/93-03/16/94	5	41.	53.6	82.	33.	592.3	24.337	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/16/93-06/15/94	6	1.	1.717	5.	1.	2.602	1.613	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0118

				Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	6	0	0.00	4	0	0.00	2	0	0.00						
00400	PH	Other-Hi Lim.	9.	6	0	0.00	4	0	0.00	2	0	0.00						
		Other-Lo Lim.	6.5	6	1	0.17	4	0	0.00	2	1	0.50						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	6	0	0.00	4	0	0.00	2	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	6	0	0.00	4	0	0.00	2	0	0.00						

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

Station Inventory for Station: GRSM0119

NPS Station ID: GRSM0119
LAT/LON: 35.592781/ -83.824170
Agency: 131TVAC
Date Created: 09/03/94
Location: CHILHOWEE RESERVOIR
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM/SOLIDS
STORET Station ID(s): 477625
RMI-Indexes: 1021500 007720 00920 8540 1930
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 037.00 018.34
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: ABRAMS CREEK 18.34
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010201002800.00
RF3 Mile Point: 2.05
Distance from RF3: 0.10
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0119

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/15/93-05/03/94	8	11.4	9.862	13.3	4.7	9.551	3.091	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/15/93-05/03/94	8	7.	28.125	160.	2.	2921.268	54.049	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	12/15/93-05/03/94	8	17.5	16.625	22.	11.	21.125	4.596	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	12/15/93-05/03/94	8	9.3	9.875	11.9	8.8	1.259	1.122	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	12/15/93-05/03/94	5 ##	1.	1.2	2.	1.	0.2	0.447	**	**	**	**
00400	PH (STANDARD UNITS)	12/15/93-05/03/94	8	6.55	6.563	6.7	6.5	0.006	0.074	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/15/93-05/03/94	8	6.547	6.557	6.7	6.5	0.006	0.075	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/15/93-05/03/94	8	0.284	0.277	0.316	0.2	0.002	0.045	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/15/93-05/03/94	5	7.	7.6	11.	6.	4.3	2.074	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/15/93-05/03/94	5	6.	8.6	23.	2.	68.3	8.264	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/15/93-05/03/94	5	0.04	0.034	0.05	0.01	0.	0.018	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/15/93-05/03/94	5	0.16	0.172	0.24	0.1	0.003	0.058	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/15/93-05/03/94	5	0.02	0.02	0.03	0.01	0.	0.007	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/15/93-05/03/94	5	8.	10.6	22.	5.	43.8	6.618	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	12/15/93-06/15/94	6	2.5	2.967	5.8	1.	4.967	2.229	**	**	**	**

** - Less 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: GRSM0119

				Total	Exceed	Prop.	10/01-3/31			4/01-9/30			n/a			n/a		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	8	0	0.00	3	0	0.00	5	0	0.00						
00400	PH	Other-Hi Lim.	9.	8	0	0.00	3	0	0.00	5	0	0.00						
		Other-Lo Lim.	6.5	8	4	0.50	3	2	0.67	5	2	0.40						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	5	0	0.00	3	0	0.00	2	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	6	0	0.00	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: GRSM0120

NPS Station ID: GRSM0120
LAT/LON: 35.593060/ -83.845003
Agency: 112WRD
Date Created: / /
Location: ABRAMS CR BELOW CADES COVE TENN
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03518100
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010204041
RF1 Mile Point: 0.350
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010204002013.00
RF3 Mile Point: 13.00
Distance from RF3: 0.17
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0120

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	09/24/68-09/24/68	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	09/24/68-09/24/68	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/24/68-09/24/68	1	161.	161.	161.	161.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/24/68-09/24/68	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/24/68-09/24/68	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/24/68-09/24/68	1	0.158	0.158	0.158	0.158	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/24/68-09/24/68	1	78.	78.	78.	78.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/24/68-09/24/68	1	95.	95.	95.	95.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/24/68-09/24/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/24/68-09/24/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/24/68-09/24/68	1	81.	81.	81.	81.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/24/68-09/24/68	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/24/68-09/24/68	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/24/68-09/24/68	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/24/68-09/24/68	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/24/68-09/24/68	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/24/68-09/24/68	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/24/68-09/24/68	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/24/68-09/24/68	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/24/68-09/24/68	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/24/68-09/24/68	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/24/68-09/24/68	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/24/68-09/24/68	1	10.	10.	10.	10.	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	08/05/68-08/05/68	1	148.	148.	148.	148.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	08/05/68-08/05/68	1	2.17	2.17	2.17	2.17	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			148.								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/24/68-09/24/68	1	92.	92.	92.	92.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/24/68-09/24/68	1	89.	89.	89.	89.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/24/68-09/24/68	1	1.34	1.34	1.34	1.34	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/24/68-09/24/68	1	0.13	0.13	0.13	0.13	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/24/68-09/24/68	1	0.9	0.9	0.9	0.9	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 time series plot

EPA Water Quality Criteria Analysis for Station: GRSM0120

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	1	0	0.00				1	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						

& - 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: GRSM0121

NPS Station ID: GRSM0121
LAT/LON: 35.593337/ -83.843893
Agency: 131TVAC
Date Created: 09/03/94
Location: CHILHOWEE RESERVOIR
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM/SOLIDS
STORET Station ID(s): 477626
RMI-Indexes: 1021500 007720 00920 8540 1930
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 037.00 016.58
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: ABRAMS CREEK 16.58
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010201002800.00
RF3 Mile Point: 2.05
Distance from RF3: 0.10
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0121

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/16/93-04/13/94	5	13.5	13.2	15.1	10.5	3.83	1.957	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/16/93-04/13/94	6	1.5	1.9	5.	0.6	2.668	1.633	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/16/93-04/13/94	5	108.	96.	125.	35.	1234.5	35.135	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	11/16/93-04/13/94	5	7.4	7.4	8.4	6.	1.08	1.039	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/15/93-03/16/94	6 ##	1.	0.917	1.	0.5	0.042	0.204	**	**	**	**
00400	PH (STANDARD UNITS)	11/16/93-04/13/94	5	7.6	7.48	7.9	6.7	0.212	0.46	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/16/93-04/13/94	5	7.6	7.238	7.9	6.7	0.285	0.534	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/16/93-04/13/94	5	0.025	0.058	0.2	0.013	0.006	0.08	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/15/93-04/13/94	7	72.	65.714	82.	26.	335.238	18.31	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/15/93-03/16/94	6 ##	0.5	1.333	4.	0.5	2.067	1.438	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/93-04/13/94	7	0.01	0.017	0.06	0.01	0.	0.019	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/93-04/13/94	7	0.25	0.237	0.29	0.12	0.003	0.056	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/93-04/13/94	7	0.01	0.013	0.03	0.008	0.	0.008	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/15/93-03/16/94	6	73.5	73.167	80.	68.	16.967	4.119	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/15/93-06/15/94	8	1.	1.125	2.	1.	0.125	0.354	**	**	**	**

** - Less 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: GRSM0121

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	5	0	0.00	4	0	0.00	1	0	0.00						
00400	PH	Other-Hi Lim.	9.	5	0	0.00	4	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	5	0	0.00	4	0	0.00	1	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	7	0	0.00	4	0	0.00	3	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	8	0	0.00	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: GRSM0122

NPS Station ID: GRSM0122
LAT/LON: 35.595003/ -83.857781
Agency: 131TVAC
Date Created: 09/03/94
Location: CHILHOWEE RESERVOIR
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM/SOLIDS
STORET Station ID(s): 477630
RMI-Indexes: 1021500 007720 00920 8540 1930
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 037.00 015.43
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: ABRAMS CREEK 15.43
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010201002800.00
RF3 Mile Point: 2.05
Distance from RF3: 0.10
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0122

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/16/93-04/13/94	5	6.7	8.34	12.8	5.2	9.928	3.151	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/15/93-04/13/94	6	70.	130.167	512.	11.	35928.567	189.548	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/16/93-04/13/94	5	29.	33.8	61.	20.	247.7	15.738	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	11/16/93-04/13/94	5	10.6	10.16	10.8	9.1	0.533	0.73	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/15/93-04/13/94	6	## 1.	0.917	1.	0.5	0.042	0.204	**	**	**	**
00400	PH (STANDARD UNITS)	11/16/93-04/13/94	5	7.1	7.12	7.5	6.7	0.082	0.286	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/16/93-04/13/94	5	7.1	7.043	7.5	6.7	0.089	0.299	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/16/93-04/13/94	5	0.079	0.091	0.2	0.032	0.004	0.064	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/15/93-04/13/94	6	22.5	28.667	56.	12.	249.467	15.795	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/15/93-04/13/94	6	2.	3.583	8.	0.5	9.642	3.105	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/93-04/13/94	6	0.01	0.02	0.04	0.01	0.	0.015	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/93-04/13/94	6	0.16	0.143	0.18	0.08	0.001	0.037	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/93-04/13/94	6	0.01	0.013	0.02	0.008	0.	0.005	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/15/93-04/13/94	6	23.	29.	60.	12.	290.8	17.053	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/15/93-04/13/94	6	1.	1.5	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 time series plot

EPA Water Quality Criteria Analysis for Station: GRSM0122

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	5	0	0.00	4	0	0.00	1	0	0.00						
00400	PH	Other-Hi Lim.	9.	5	0	0.00	4	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	5	0	0.00	4	0	0.00	1	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	6	0	0.00	4	0	0.00	2	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	6	0	0.00	4	0	0.00	2	0	0.00						

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

Station Inventory for Station: GRSM0123

NPS Station ID: GRSM0123
Location: CHILHOWEE RESERVOIR
Station Type: /TYPA/AMBNT/STREAM/SOLIDS
RMI-Indexes: 1021500 007720 00920 8540 1930 0340
RMI-Miles: 0953.80 0046.50 601.10 037.00 019.09 000.84
HUC: 06010204
Major Basin: TENNESSEE RIVER BASIN
Minor Basin: MAPLE CREEK 0.84
RF1 Index: 06010204
RF3 Index: 06010201002800.00
Description:

LAT/LON: 35.597503/ -83.801393
Depth of Water: 0
Elevation: 0
RF1 Mile Point: 0.000
RF3 Mile Point: 2.05

Agency: 131TVAC
FIPS State/County: 47009 TENNESSEE/BLOUNT
STORET Station ID(s): 477637
Within Park Boundary: Yes
Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 0.00
Distance from RF3: 0.10

Date Created: 10/29/94
On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: GRSM0123

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: GRSM0124

NPS Station ID: GRSM0124
Location: CHILHOWEE RESERVOIR
Station Type: /TYPA/AMBNT/STREAM/SOLIDS
RMI-Indexes: 1021500 007720 00920 8540 1930 0340
RMI-Miles: 0953.80 0046.50 601.10 037.00 019.09 000.84
HUC: 06010204
Major Basin: TENNESSEE RIVER BASIN
Minor Basin: MAPLE CREEK 0.84
RF1 Index: 06010204
RF3 Index: 06010201002800.00
Description:

LAT/LON: 35.597503/ -83.801393
Depth of Water: 0
Elevation: 0
RF1 Mile Point: 0.000
RF3 Mile Point: 2.05

Agency: 131TVAC
FIPS State/County: 47009 TENNESSEE/BLOUNT
STORET Station ID(s): 477638
Within Park Boundary: Yes
Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 0.00
Distance from RF3: 0.10

Date Created: 10/29/94
On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: GRSM0124

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: GRSM0125

NPS Station ID: GRSM0125
LAT/LON: 35.597781/ -83.565281
Agency: 112WRD
Date Created: 02/29/92
Location: GOSHEN PRONG AB ELKMONT
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 353552083335500
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 0.30
On/Off RF1:
RF3 Index: 06010107002804.97
RF3 Mile Point: 5.64
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0125

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	10/29/91-10/29/91	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/29/91-10/29/91	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/29/91-10/29/91	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/29/91-10/29/91	1	0.13	0.13	0.13	0.13	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/29/91-10/29/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/29/91-10/29/91	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/91-10/29/91	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/91-10/29/91	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/91-10/29/91	1	0.46	0.46	0.46	0.46	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/29/91-10/29/91	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/29/91-10/29/91	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/29/91-10/29/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/29/91-10/29/91	1	5.2	5.2	5.2	5.2	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/29/91-10/29/91	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/91-10/29/91	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	10/29/91-10/29/91	1 ##	0.005	0.005	0.005	0.005	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: GRSM0125

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0126

NPS Station ID: GRSM0126 | LAT/LON: 35.600004/ -83.165282 | Agency: 11EPALES | Date Created: / /
Location: LAKE HARTWELL | FIPS State/County: 45073 SOUTH CAROLINA/OCONEE
Station Type: /TYPA/AMBNT/LAKE | STORET Station ID(s): 450506
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 06010106 | Depth of Water: 35 | Aquifer:
Major Basin: | Elevation: 0 | Water Body Id:
Minor Basin: | ECO Region:
RF1 Index: 06010106 | RF1 Mile Point: 0.000 | Distance from RF1: 6.50 | On/Off RF1:
RF3 Index: 06010106041700.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.03 | On/Off RF3:
Description:
W AREA OF LAKE,DUE E OF TOWN IN SHARP BEND OF RIVER WITH ROUND PENINSULA ON W SHORE, 35 YDS FR E SHORE, NEAR LANDMARK NO. 312 ON W SHORE.
COMMENTS: 6-27 ULE 17; 1% LIGHT AT 10 FT; 4.3% LIGHT REFLECTED AT SURFACE; TURBID, GREEN WATER W/O VISIBLE ALGAE OR AQUATICS.
9-15 ULE 21, TURBID MUDDY BROWN; NO SURF ALGAE OR HIGHER AQUATICS; H2S

Parameter Inventory for Station: GRSM0126

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/27/73-11/13/73	12	24.	21.742	26.7	13.2	27.672	5.26	13.2	15.65	25.475	26.37
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	06/27/73-11/13/73	12	83.5	74.333	100.	9.	709.697	26.64	21.	60.	97.5	100.
00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/27/73-11/13/73	3	60.	51.333	72.	22.	681.333	26.102	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/15/73-11/13/73	7	26.	24.286	29.	19.	19.905	4.461	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/27/73-11/13/73	12	52.	86.667	176.	40.	3546.97	59.556	40.	41.25	160.5	176.
00300	OXYGEN, DISSOLVED MG/L	06/27/73-11/13/73	9	7.5	7.756	9.8	6.6	1.155	1.075	6.6	6.9	8.5	9.8
00400	PH (STANDARD UNITS)	06/27/73-11/13/73	12	6.45	6.333	6.5	5.9	0.055	0.235	5.9	6.15	6.5	6.5
00400	CONVERTED PH (STANDARD UNITS)	06/27/73-11/13/73	12	6.447	6.266	6.5	5.9	0.06	0.245	5.9	6.15	6.5	6.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/27/73-11/13/73	12	0.357	0.542	1.259	0.316	0.131	0.362	0.316	0.316	0.721	1.259
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/27/73-11/13/73	12 ##	5.	7.333	12.	5.	8.606	2.934	5.	5.	10.	11.7
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/27/73-11/13/73	12	0.055	0.052	0.09	0.02	0.	0.022	0.023	0.03	0.068	0.087
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/27/73-11/13/73	12	0.35	0.325	0.8	0.1	0.044	0.209	0.1	0.1	0.4	0.71
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/27/73-11/13/73	12	0.05	0.058	0.12	0.04	0.	0.021	0.04	0.05	0.06	0.102
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/27/73-11/13/73	12	0.014	0.018	0.054	0.009	0.	0.012	0.009	0.011	0.021	0.044
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/27/73-11/13/73	12	0.004	0.004	0.008	0.001	0.	0.002	0.001	0.003	0.005	0.007
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	06/27/73-11/13/73	3	2.9	2.933	3.1	2.8	0.023	0.153	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	06/27/73-11/13/73	3	35.	30.	35.	20.	75.	8.66	**	**	**	**

** - Less 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: GRSM0126

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	9	0	0.00	2	0	0.00	7	0	0.00						
00400	PH	Other-Hi Lim.	9.	12	0	0.00	3	0	0.00	9	0	0.00						
		Other-Lo Lim.	6.5	12	12	1.00	3	3	1.00	9	9	1.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	12	0	0.00	3	0	0.00	9	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: GRSM0127

NPS Station ID: GRSM0127
LAT/LON: 35.600281/ -83.766948
Agency: 131TVAC
Date Created: 10/29/94
Location: CHILHOWEE RESERVOIR
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM/SOLIDS
STORET Station ID(s): 477634
RMI-Indexes: 1021500 007720 00920 8540 1930
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 037.00 022.34
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: ABRAMS CREEK 22.34
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010201002800.00
RF3 Mile Point: 2.05
Distance from RF3: 0.10
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0127

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/17/93-05/03/94	9	11.	9.178	13.3	4.	13.274	3.643	4.	4.65	11.55	13.3
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/94-05/03/94	4	0.45	0.45	0.5	0.4	0.003	0.058	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/17/93-05/03/94	8	10.5	11.25	17.	8.	7.929	2.816	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	11/17/93-05/03/94	9	9.2	9.8	11.4	8.7	1.173	1.083	8.7	8.9	11.05	11.4
00310	BOD, 5 DAY, 20 DEG C MG/L	09/15/93-05/03/94	8 ##	1.	1.063	2.	0.5	0.174	0.417	**	**	**	**
00400	PH (STANDARD UNITS)	11/17/93-05/03/94	9	6.2	6.256	6.5	6.1	0.015	0.124	6.1	6.2	6.35	6.5
00400	CONVERTED PH (STANDARD UNITS)	11/17/93-05/03/94	9	6.2	6.241	6.5	6.1	0.016	0.125	6.1	6.2	6.35	6.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/17/93-05/03/94	9	0.631	0.574	0.794	0.316	0.021	0.145	0.316	0.45	0.631	0.794
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/16/93-05/03/94	2	14.5	14.5	20.	9.	60.5	7.778	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/15/93-05/03/94	8	2.	5.563	31.	0.5	108.031	10.394	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/93-05/03/94	8	0.01	0.023	0.05	0.01	0.	0.018	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/93-05/03/94	8	0.25	0.313	1.01	0.06	0.085	0.291	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/93-05/03/94	8	0.007	0.011	0.03	0.002	0.	0.009	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/15/93-05/03/94	8	4.5	8.75	24.	2.	71.071	8.43	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/16/93-06/16/94	3	1.	3.6	8.8	1.	20.28	4.503	**	**	**	**

** - Less 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: GRSM0127

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	9	0	0.00	4	0	0.00	5	0	0.00						
00400	PH	Other-Hi Lim.	9.	9	0	0.00	4	0	0.00	5	0	0.00						
		Other-Lo Lim.	6.5	9	9	1.00	4	4	1.00	5	5	1.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	8	0	0.00	5	0	0.00	3	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	3	0	0.00	1	0	0.00	2	0	0.00						

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

Station Inventory for Station: GRSM0128

NPS Station ID: GRSM0128
LAT/LON: 35.604170/ -83.781116
Agency: 131TVAC
Date Created: 09/03/94
Location: CHILHOWEE RESERVOIR
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM/SOLIDS
STORET Station ID(s): 477622
RMI-Indexes: 1021500 007720 00920 8540 1930
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 037.00 021.28
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: ABRAMS CREEK 21.28
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010201002800.00
RF3 Mile Point: 2.05
Distance from RF3: 0.10
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0128

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/17/93-05/03/94	8	11.4	9.237	14.4	3.7	17.391	4.17	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/15/93-05/03/94	9	4.	12.822	62.	0.4	391.122	19.777	0.4	0.5	17.	62.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/17/93-05/03/94	8	11.5	12.375	19.	7.	17.696	4.207	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	11/17/93-05/03/94	8	10.05	9.913	11.8	8.	2.544	1.595	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	11/17/93-05/03/94	7 ##	1.	1.286	2.	1.	0.238	0.488	**	**	**	**
00400	PH (STANDARD UNITS)	11/17/93-05/03/94	8	6.3	6.325	6.8	5.9	0.122	0.349	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/17/93-05/03/94	8	6.289	6.213	6.8	5.9	0.136	0.369	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/17/93-05/03/94	8	0.515	0.612	1.259	0.158	0.182	0.426	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/15/93-05/03/94	8	6.	6.125	8.	4.	2.125	1.458	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/17/93-05/03/94	7	2.	6.643	20.	0.5	84.143	9.173	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/93-05/03/94	8	0.03	0.044	0.1	0.01	0.002	0.039	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/93-05/03/94	8	0.2	0.193	0.25	0.05	0.004	0.061	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/93-05/03/94	8	0.009	0.014	0.03	0.002	0.	0.011	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/17/93-05/03/94	7	7.	9.429	18.	4.	35.952	5.996	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/15/93-06/16/94	9	1.	2.833	8.8	1.	11.36	3.37	1.	1.	5.35	8.8

** - 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

EPA Water Quality Criteria Analysis for Station: GRSM0128

				Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	8	0	0.00	4	0	0.00	4	0	0.00						
00400	PH	Other-Hi Lim.	9.	8	0	0.00	4	0	0.00	4	0	0.00						
		Other-Lo Lim.	6.5	8	5	0.63	4	2	0.50	4	3	0.75						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	8	0	0.00	4	0	0.00	4	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	9	0	0.00	4	0	0.00	5	0	0.00						

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

Station Inventory for Station: GRSM0129

NPS Station ID: GRSM0129
LAT/LON: 35.604448/ -83.563337
Agency: 112WRD
Date Created: 03/21/92
Location: SLIDE HOLLOW AB ELKMONT
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 353616083334800
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 8.90
On/Off RF1:
RF3 Index: 06010201084000.00
RF3 Mile Point: 0.94
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0129

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	10/29/91-10/29/91	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/29/91-10/29/91	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/29/91-10/29/91	1	0.126	0.126	0.126	0.126	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/29/91-10/29/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/29/91-10/29/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/29/91-10/29/91	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/91-10/29/91	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/91-10/29/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/91-10/29/91	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/29/91-10/29/91	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/29/91-10/29/91	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/29/91-10/29/91	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/29/91-10/29/91	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/29/91-10/29/91	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/91-10/29/91	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	10/29/91-10/29/91	1 ##	0.005	0.005	0.005	0.005	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: GRSM0129

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0130

NPS Station ID: GRSM0130
LAT/LON: 35.604726/ -83.800281
Agency: 131TVAC
Date Created: 09/03/94
Location: CHILHOWEE RESERVOIR
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM/SOLIDS
STORET Station ID(s): 477624
RMI-Indexes: 1021500 007720 00920 8540 1930
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 037.00 019.95
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: ABRAMS CREEK 19.95
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010201002800.00
RF3 Mile Point: 2.05
Distance from RF3: 0.10
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0130

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/24/94-04/13/94	3	8.3	9.4	14.5	5.4	21.61	4.649	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	01/24/94-04/13/94	3	45.	69.333	146.	17.	4604.333	67.855	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/24/94-04/13/94	3	11.	11.333	13.	10.	2.333	1.528	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	01/24/94-04/13/94	3	10.2	10.4	11.2	9.8	0.52	0.721	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	01/24/94-04/13/94	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	01/24/94-04/13/94	3	6.4	6.45	6.6	6.35	0.017	0.132	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/24/94-04/13/94	3	6.4	6.437	6.6	6.35	0.018	0.133	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/24/94-04/13/94	3	0.398	0.365	0.447	0.251	0.01	0.102	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/24/94-04/13/94	3	6.	6.333	7.	6.	0.333	0.577	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/24/94-04/13/94	3	2.	1.833	3.	0.5	1.583	1.258	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/24/94-04/13/94	3	0.04	0.037	0.06	0.01	0.001	0.025	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/24/94-04/13/94	3	0.18	0.187	0.25	0.13	0.004	0.06	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/24/94-04/13/94	3	0.01	0.013	0.02	0.01	0.	0.006	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/24/94-04/13/94	3	8.	7.333	8.	6.	1.333	1.155	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	01/24/94-06/15/94	4	1.	1.	1.	1.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0130

				Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	3	0	0.00	2	0	0.00	1	0	0.00						
00400	PH	Other-Hi Lim.	9.	3	0	0.00	2	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	3	2	0.67	2	1	0.50	1	1	1.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	3	0	0.00	2	0	0.00	1	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	4	0	0.00	2	0	0.00	2	0	0.00						

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

Station Inventory for Station: GRSM0131

NPS Station ID: GRSM0131
LAT/LON: 35.605559/ -83.788060
Agency: 131TVAC
Date Created: 09/03/94
Location: CHILHOWEE RESERVOIR
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM/SOLIDS
STORET Station ID(s): 477623
RMI-Indexes: 1021500 007720 00920 8540 1930
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 037.00 020.82
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: ABRAMS CREEK 20.82
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010201002800.00
RF3 Mile Point: 2.05
Distance from RF3: 0.10
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0131

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/17/93-04/13/94	5	5.2	8.1	14.6	3.3	29.65	5.445	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/15/93-04/13/94	6	14.5	18.	57.	2.	400.4	20.01	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/17/93-04/13/94	5	10.	9.8	11.	8.	1.2	1.095	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	11/17/93-04/13/94	5	10.7	10.48	11.4	8.8	0.997	0.998	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	11/17/93-04/13/94	5 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/17/93-04/13/94	5	6.5	6.52	6.8	6.3	0.037	0.192	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/17/93-04/13/94	5	6.5	6.488	6.8	6.3	0.038	0.196	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/17/93-04/13/94	5	0.316	0.325	0.501	0.158	0.017	0.132	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/15/93-04/13/94	6	5.	6.333	10.	5.	4.667	2.16	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/17/93-04/13/94	5 ##	0.5	1.9	4.	0.5	3.675	1.917	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/93-04/13/94	6	0.02	0.027	0.05	0.01	0.	0.019	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/93-04/13/94	6	0.21	0.19	0.26	0.04	0.007	0.082	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/93-04/13/94	6	0.015	0.016	0.03	0.004	0.	0.009	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/17/93-04/13/94	5	6.	6.8	10.	5.	3.7	1.924	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/15/93-06/16/94	7	1.	1.286	3.	1.	0.571	0.756	**	**	**	**

** - Less 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: GRSM0131

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	5	0	0.00	4	0	0.00	1	0	0.00						
00400	PH	Other-Hi Lim.	9.	5	0	0.00	4	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	5	3	0.60	4	2	0.50	1	1	1.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	6	0	0.00	4	0	0.00	2	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	7	0	0.00	4	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: GRSM0132

NPS Station ID: GRSM0132
LAT/LON: 35.606392/ -83.128893
Agency: 112WRD
Date Created: 02/29/92
Location: ROUGH FORK NR NELLIE
FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 353623083074400
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 0.70
On/Off RF1:
RF3 Index: 06010106001300.27
RF3 Mile Point: 1.10
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0132

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	10/31/91-10/31/91	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/31/91-10/31/91	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/31/91-10/31/91	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/31/91-10/31/91	1	0.24	0.24	0.24	0.24	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/31/91-10/31/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/91-10/31/91	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/91-10/31/91	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/91-10/31/91	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/91-10/31/91	1	0.58	0.58	0.58	0.58	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/31/91-10/31/91	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/91-10/31/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/91-10/31/91	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/91-10/31/91	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/31/91-10/31/91	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/31/91-10/31/91	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	10/31/91-10/31/91	1 ##	0.005	0.005	0.005	0.005	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: GRSM0132

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0133

NPS Station ID: GRSM0133
LAT/LON: 35.606392/ -83.934449
Agency: 131TVAC
Date Created: 09/03/94
Location: CHILHOWEE RESERVOIR
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM/SOLIDS
STORET Station ID(s): 477631
RMI-Indexes: 1021500 007720 00920 8540 1930
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 037.00 008.57
HUC: 06010204
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: ABRAMS CREEK 8.57
ECO Region:
RF1 Index: 06010204
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010201002800.00
RF3 Mile Point: 2.05
Distance from RF3: 0.10
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0133

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/16/93-04/13/94	6	10.15	10.867	20.3	4.4	38.987	6.244	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/16/93-03/17/94	5	76.	84.8	162.	22.	3851.2	62.058	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/16/93-04/13/94	6	22.	33.667	81.	17.	603.467	24.566	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/16/93-04/13/94	6	11.35	10.933	13.2	8.5	3.083	1.756	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/16/93-04/13/94	4 ##	1.	0.875	1.	0.5	0.063	0.25	**	**	**	**
00400	PH (STANDARD UNITS)	09/16/93-04/13/94	6	7.05	7.117	7.7	6.7	0.122	0.349	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/16/93-04/13/94	6	7.047	7.019	7.7	6.7	0.133	0.365	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/16/93-04/13/94	6	0.09	0.096	0.2	0.02	0.004	0.063	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/16/93-04/13/94	6	15.	19.667	44.	10.	152.267	12.34	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/16/93-04/13/94	6 ##	0.75	1.083	3.	0.5	0.942	0.97	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/16/93-04/13/94	4	0.03	0.033	0.06	0.01	0.	0.022	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/16/93-04/13/94	4	0.085	0.085	0.1	0.07	0.	0.013	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/16/93-04/13/94	4	0.008	0.008	0.01	0.004	0.	0.003	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/16/93-04/13/94	5	15.	21.	48.	8.	246.	15.684	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/16/93-06/16/94	7	1.	1.171	2.	1.	0.139	0.373	**	**	**	**

** - Less 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: GRSM0133

				Total	Exceed	Prop.	10/01-3/31			4/01-9/30			n/a			n/a		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	6	0	0.00	4	0	0.00	2	0	0.00						
00400	PH	Other-Hi Lim.	9.	6	0	0.00	4	0	0.00	2	0	0.00						
		Other-Lo Lim.	6.5	6	0	0.00	4	0	0.00	2	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	4	0	0.00	2	0	0.00	2	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	7	0	0.00	4	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: GRSM0134

NPS Station ID: GRSM0134
LAT/LON: 35.608337/ -83.222781
Agency: 131TVAC
Date Created: 04/17/82
Location: TRIBUTARY TO RAVEN FORK 8.38
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370038
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0200
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 08.38 03.50
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: STRAIGHT FORK 3.50
ECO Region:
RF1 Index: 06010203033
RF1 Mile Point: 3.530
Distance from RF1: 11.40
On/Off RF1: OFF
RF3 Index: 06010203005001.00
RF3 Mile Point: 1.03
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0134

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/22/82-03/26/82	2	7.	7.	7.8	6.2	1.28	1.131	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/22/82-03/26/82	2	14.	14.	19.	9.	50.	7.071	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/22/82-03/26/82	2	10.45	10.45	10.5	10.4	0.005	0.071	**	**	**	**
00400	PH (STANDARD UNITS)	03/22/82-03/26/82	2	6.2	6.2	6.6	5.8	0.32	0.566	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/22/82-03/26/82	2	6.037	6.037	6.6	5.8	0.373	0.611	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/22/82-03/26/82	2	0.918	0.918	1.585	0.251	0.889	0.943	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/26/82-03/26/82	1	5.7	5.7	5.7	5.7	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/26/82-03/26/82	1	5.7	5.7	5.7	5.7	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/82-03/26/82	1	1.995	1.995	1.995	1.995	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/82-03/26/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/26/82-03/26/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/26/82-03/26/82	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/26/82-03/26/82	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/26/82-03/26/82	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/26/82-03/26/82	1	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/26/82-03/26/82	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	03/26/82-03/26/82	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/26/82-03/26/82	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	03/26/82-03/26/82	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	03/26/82-03/26/82	1	0.53	0.53	0.53	0.53	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	03/26/82-03/26/82	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/26/82-03/26/82	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/82-03/26/82	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/26/82-03/26/82	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	03/26/82-03/26/82	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/26/82-03/26/82	1	26.	26.	26.	26.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/26/82-03/26/82	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/26/82-03/26/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/26/82-03/26/82	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/26/82-03/26/82	1	77.	77.	77.	77.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/26/82-03/26/82	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/26/82-03/26/82	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
32023	ACIDS, STRONG	03/26/82-03/26/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024	ACIDS, WEAK	03/26/82-03/26/82	1	60.	60.	60.	60.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	03/26/82-03/26/82	1	5.	5.	5.	5.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/82-03/26/82	1	20.	20.	20.	20.	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/26/82-03/26/82	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/26/82-03/26/82	1	2.8	2.8	2.8	2.8	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: GRSM0134

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71900	MERCURY, TOTAL (UG/L AS HG)	03/26/82-03/26/82	1 ##	0.1	0.1	0.1	0.1	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: GRSM0134

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	2	0	0.00	2	0	0.00									
00400	PH	Other-Hi Lim.	9.	2	0	0.00	2	0	0.00									
		Other-Lo Lim.	6.5	2	1	0.50	2	1	0.50									
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	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									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0135

NPS Station ID: GRSM0135
LAT/LON: 35.608616/ -83.669726
Agency: 112WRD
Date Created: 03/21/92
Location: SAMS CR AB TOWNSEND
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 353631083401100
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 3.70
On/Off RF1:
RF3 Index: 06010201081900.00
RF3 Mile Point: 0.06
Distance from RF3: 0.06
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0135

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	10/30/91-10/30/91	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/91-10/30/91	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/91-10/30/91	1	0.126	0.126	0.126	0.126	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/91-10/30/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/30/91-10/30/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/30/91-10/30/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/30/91-10/30/91	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/30/91-10/30/91	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/30/91-10/30/91	1	0.46	0.46	0.46	0.46	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/91-10/30/91	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/91-10/30/91	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/30/91-10/30/91	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/30/91-10/30/91	1	5.4	5.4	5.4	5.4	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/30/91-10/30/91	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/30/91-10/30/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	10/30/91-10/30/91	1 ##	0.005	0.005	0.005	0.005	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: GRSM0135

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0136

NPS Station ID: GRSM0136
LAT/LON: 35.609726/ -83.258337
Agency: 131TVAC
Date Created: 12/12/81
Location: ABOVE ENLOE CREEK
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370019
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 12.55
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: RAVEN FORK 12.55
ECO Region:
RF1 Index: 06010203034
RF1 Mile Point: 3.990
Distance from RF1: 1.40
On/Off RF1: OFF
RF3 Index: 06010203003700.24
RF3 Mile Point: 1.08
Distance from RF3: 0.06
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0136

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/12/81-11/12/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/12/81-11/12/81	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/12/81-11/12/81	1	6.2	6.2	6.2	6.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/12/81-11/12/81	1	6.2	6.2	6.2	6.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/81-11/12/81	1	0.631	0.631	0.631	0.631	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/12/81-11/12/81	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/12/81-11/12/81	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/81-11/12/81	1	0.398	0.398	0.398	0.398	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/12/81-11/12/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	11/12/81-11/12/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	11/12/81-11/12/81	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/12/81-11/12/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	11/12/81-11/12/81	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	11/12/81-11/12/81	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	11/12/81-11/12/81	1	1.74	1.74	1.74	1.74	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	11/12/81-11/12/81	1	0.79	0.79	0.79	0.79	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/12/81-11/12/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	11/12/81-11/12/81	1	43.	43.	43.	43.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	11/12/81-11/12/81	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	11/12/81-11/12/81	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	11/12/81-11/12/81	1	130.	130.	130.	130.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	11/12/81-11/12/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/12/81-11/12/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0136

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									

& - 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: GRSM0136

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0137

NPS Station ID: GRSM0137
LAT/LON: 35.610003/ -83.254726
Agency: 131TVAC
Date Created: 01/09/82
Location: TRIBUTARY TO OCONOLUFTEE RIVER 10.26
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370025
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 12.76
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: RAVEN FORK 12.76
ECO Region:
RF1 Index: 06010203034
RF1 Mile Point: 4.270
Distance from RF1: 7.50
On/Off RF1: OFF
RF3 Index: 06010203005000.00
RF3 Mile Point: 0.57
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0137

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/02/81-04/22/82	3	5.4	5.7	7.2	4.5	1.89	1.375	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/02/81-04/22/82	3	12.	12.333	14.	11.	2.333	1.528	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	12/02/81-04/22/82	3	12.6	12.233	13.3	10.8	1.663	1.29	**	**	**	**
00400	PH (STANDARD UNITS)	12/02/81-04/22/82	3	5.4	5.167	5.7	4.4	0.463	0.681	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/02/81-04/22/82	3	5.4	4.816	5.7	4.4	0.647	0.805	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/02/81-04/22/82	3	3.981	15.262	39.811	1.995	452.953	21.283	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	12/02/81-04/22/82	3	5.5	5.3	6.	4.4	0.67	0.819	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	12/02/81-04/22/82	3	5.5	4.834	6.	4.4	0.996	0.998	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/02/81-04/22/82	3	3.162	14.658	39.811	1.	475.676	21.81	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/02/81-04/22/82	3	1.	1.	2.	0.	1.	1.	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	12/02/81-04/22/82	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	12/02/81-12/02/81	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/02/81-04/22/82	3	2.	6.167	16.	0.5	73.083	8.549	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/24/82-04/22/82	2	0.055	0.055	0.1	0.01	0.004	0.064	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/24/82-04/22/82	2 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/24/82-04/22/82	2	5.55	5.55	9.1	2.	25.205	5.02	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/24/82-04/22/82	2	0.95	0.95	1.2	0.7	0.125	0.354	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	12/02/81-04/22/82	3	1.	1.033	1.3	0.8	0.063	0.252	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/02/81-04/22/82	3	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	12/02/81-04/22/82	3	0.78	0.743	0.79	0.66	0.005	0.072	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	12/02/81-04/22/82	3	0.42	0.433	0.48	0.4	0.002	0.042	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/02/81-04/22/82	3	0.4	0.433	0.5	0.4	0.003	0.058	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/02/81-04/22/82	3	1.	0.833	1.	0.5	0.083	0.289	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/82-04/22/82	2	0.065	0.065	0.07	0.06	0.	0.007	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/24/82-04/22/82	2	2.45	2.45	2.5	2.4	0.005	0.071	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	03/24/82-04/22/82	2	2.45	2.45	2.5	2.4	0.005	0.071	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/24/82-04/22/82	2	26.	26.	40.	12.	392.	19.799	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	12/02/81-04/22/82	3	50.	64.	110.	32.	1668.	40.841	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	12/02/81-04/22/82	3 ##	5.	10.	20.	5.	75.	8.66	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/24/82-04/22/82	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	12/02/81-04/22/82	3	8.	13.667	28.	5.	156.333	12.503	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/02/81-04/22/82	3	100.	113.333	170.	70.	2633.333	51.316	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/24/82-04/22/82	2 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
32023	ACIDS, STRONG	03/24/82-04/22/82	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024	ACIDS, WEAK	03/24/82-04/22/82	2	40.	40.	50.	30.	200.	14.142	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	12/02/81-04/22/82	3	4.	3.667	4.	3.	0.333	0.577	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/02/81-04/22/82	3	10.	13.333	20.	10.	33.333	5.774	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/02/81-12/02/81	1	17.	17.	17.	17.	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: GRSM0137

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/24/82-04/22/82	2	0.055	0.055	0.1	0.01	0.004	0.064	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/24/82-04/22/82	2	2.75	2.75	2.9	2.6	0.045	0.212	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	03/24/82-04/22/82	2 ##	0.1	0.1	0.1	0.1	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: GRSM0137

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	3	0	0.00	2	0	0.00	1	0	0.00						
00400	PH	Other-Hi Lim.	9.	3	0	0.00	2	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	3	3	1.00	2	2	1.00	1	1	1.00						
00403	PH, LAB	Other-Hi Lim.	9.	3	0	0.00	2	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	3	3	1.00	2	2	1.00	1	1	1.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	2	0	0.00	1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	3	0	0.00	2	0	0.00	1	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	2	1	0.50	1	0	0.00	1	1	1.00						
		Drinking Water	1300.	2	0	0.00	1	0	0.00	1	0	0.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	3	0	0.00	2	0	0.00	1	0	0.00						
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	2	0	0.00	1	0	0.00	1	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	2.	2	0	0.00	1	0	0.00	1	0	0.00						

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

Station Inventory for Station: GRSM0138

NPS Station ID: GRSM0138
LAT/LON: 35.610559/ -83.260837
Agency: 131TVAC
Date Created: 12/12/81
Location: TRIBUTARY TO RAVEN FORK 12.50
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370020
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0350
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 12.50 00.11
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: ENLOE CREEK 0.1
ECO Region:
RF1 Index: 06010203034
RF1 Mile Point: 3.990
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010203003403.99
RF3 Mile Point: 4.23
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0138

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/12/81-03/24/82	3	6.1	6.533	8.	5.5	1.703	1.305	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/12/81-03/24/82	3	10.	9.667	10.	9.	0.333	0.577	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	12/02/81-03/24/82	2	11.05	11.05	12.2	9.9	2.645	1.626	**	**	**	**
00400	PH (STANDARD UNITS)	11/12/81-03/24/82	3	5.9	5.867	6.2	5.5	0.123	0.351	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/12/81-03/24/82	3	5.9	5.774	6.2	5.5	0.136	0.369	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/81-03/24/82	3	1.259	1.684	3.162	0.631	1.737	1.318	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/12/81-03/24/82	3	5.8	5.833	6.3	5.4	0.203	0.451	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/12/81-03/24/82	3	5.8	5.694	6.3	5.4	0.232	0.482	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/81-03/24/82	3	1.585	2.022	3.981	0.501	3.171	1.781	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/12/81-03/24/82	3 ##	0.5	1.333	3.	0.5	2.083	1.443	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	11/12/81-03/24/82	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	11/12/81-12/02/81	2	6.5	6.5	8.	5.	4.5	2.121	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/12/81-03/24/82	3 ##	0.5	1.	2.	0.5	0.75	0.866	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/24/82-03/24/82	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/24/82-03/24/82	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/24/82-03/24/82	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/24/82-03/24/82	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	11/12/81-03/24/82	3	1.	0.933	1.	0.8	0.013	0.115	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	11/12/81-03/24/82	3	0.3	0.267	0.3	0.2	0.003	0.058	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	11/12/81-03/24/82	3	0.78	0.773	0.82	0.72	0.003	0.05	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	11/12/81-03/24/82	3	0.37	0.433	0.58	0.35	0.016	0.127	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/12/81-03/24/82	3 ##	0.5	0.467	0.5	0.4	0.003	0.058	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/02/81-03/24/82	2 ##	0.7	0.7	0.9	0.5	0.08	0.283	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/82-03/24/82	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/24/82-03/24/82	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	03/24/82-03/24/82	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/24/82-03/24/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	11/12/81-03/24/82	3	33.	31.	35.	25.	28.	5.292	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	11/12/81-03/24/82	3 ##	5.	4.5	6.	2.5	3.25	1.803	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/24/82-03/24/82	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	11/12/81-03/24/82	3	6.	7.	10.	5.	7.	2.646	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	11/12/81-03/24/82	3 ##	25.	40.	70.	25.	675.	25.981	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/24/82-03/24/82	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
32023	ACIDS, STRONG	03/24/82-03/24/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024	ACIDS, WEAK	03/24/82-03/24/82	1	40.	40.	40.	40.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	11/12/81-03/24/82	3	3.	3.333	4.	3.	0.333	0.577	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/12/81-03/24/82	3	20.	20.	30.	10.	100.	10.	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/02/81-12/02/81	1	13.	13.	13.	13.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRSM0138

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/24/82-03/24/82	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/24/82-03/24/82	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	03/24/82-03/24/82	1 ##	0.1	0.1	0.1	0.1	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: GRSM0138

				Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			--------------n/a--------------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	2	0	0.00	2	0	0.00									
00400	PH	Other-Hi Lim.	9.	3	0	0.00	3	0	0.00									
		Other-Lo Lim.	6.5	3	3	1.00	3	3	1.00									
00403	PH, LAB	Other-Hi Lim.	9.	3	0	0.00	3	0	0.00									
		Other-Lo Lim.	6.5	3	3	1.00	3	3	1.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	3	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	2	0	0.00	2	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									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	3	0	0.00	3	0	0.00									
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0139

NPS Station ID: GRSM0139
LAT/LON: 35.612504/ -83.243892
Agency: 131TVAC
Date Created: 04/17/82
Location: TRIBUTARY TO UNNAMED TRIB. 0.17 TO RAVEN F 13.19
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370034
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0380 0020
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 13.19 00.17 00.25
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: UNNAMED TRIBUTARY (SPRING) 0.25
ECO Region:
RF1 Index: 06010203034
RF1 Mile Point: 4.570
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010203015900.00
RF3 Mile Point: 0.16
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0139

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/22/82-03/22/82	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/22/82-03/22/82	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/22/82-03/22/82	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	03/22/82-03/22/82	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/22/82-03/22/82	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/22/82-03/22/82	1	0.794	0.794	0.794	0.794	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/22/82-03/22/82	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/22/82-03/22/82	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/22/82-03/22/82	1	3.162	3.162	3.162	3.162	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/22/82-03/22/82	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/22/82-03/22/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/22/82-03/22/82	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/22/82-03/22/82	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/22/82-03/22/82	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/22/82-03/22/82	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/22/82-03/22/82	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	03/22/82-03/22/82	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/22/82-03/22/82	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	03/22/82-03/22/82	1	0.72	0.72	0.72	0.72	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	03/22/82-03/22/82	1	0.37	0.37	0.37	0.37	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	03/22/82-03/22/82	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/22/82-03/22/82	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/22/82-03/22/82	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/22/82-03/22/82	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	03/22/82-03/22/82	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/22/82-03/22/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/22/82-03/22/82	1	90.	90.	90.	90.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/22/82-03/22/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/22/82-03/22/82	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/22/82-03/22/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/22/82-03/22/82	1	90.	90.	90.	90.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/22/82-03/22/82	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
32023	ACIDS, STRONG	03/22/82-03/22/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024	ACIDS, WEAK	03/22/82-03/22/82	1	70.	70.	70.	70.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	03/22/82-03/22/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/22/82-03/22/82	1	10.	10.	10.	10.	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/22/82-03/22/82	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/22/82-03/22/82	1	1.7	1.7	1.7	1.7	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: GRSM0139

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71900	MERCURY, TOTAL (UG/L AS HG)	03/22/82-03/22/82	1 ##	0.1	0.1	0.1	0.1	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: GRSM0139

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	1	0	0.00	1	0	0.00									
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	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									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0140

NPS Station ID: GRSM0140
LAT/LON: 35.613337/ -83.743338
Agency: 112WRD
Date Created: 02/29/92
Location: LAUREL CR AB TOWNSEND
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 353648083443600
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 0.80
On/Off RF1:
RF3 Index: 06010204018000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0140

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	10/30/91-10/30/91	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/91-10/30/91	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/91-10/30/91	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/91-10/30/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/30/91-10/30/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/30/91-10/30/91	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/30/91-10/30/91	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/30/91-10/30/91	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/30/91-10/30/91	1	0.78	0.78	0.78	0.78	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/91-10/30/91	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/91-10/30/91	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/30/91-10/30/91	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/30/91-10/30/91	1	9.9	9.9	9.9	9.9	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/30/91-10/30/91	1	22.	22.	22.	22.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/30/91-10/30/91	1	3.	3.	3.	3.	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	10/30/91-10/30/91	1 ##	0.005	0.005	0.005	0.005	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: GRSM0140

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0141

NPS Station ID: GRSM0141
LAT/LON: 35.613615/ -83.268059
Agency: 131TVAC
Date Created: 01/09/82
Location: TRIBUTARY TO ENLOE CREEK 0.62
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370027
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0350 0080
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 12.50 00.62 00.01
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: UNNAMED TRIBUTARY 0.01
ECO Region:
RF1 Index: 06010203
RF1 Mile Point: 0.000
Distance from RF1: 9.60
On/Off RF1:
RF3 Index: 06010203005001.00
RF3 Mile Point: 5.10
Distance from RF3: 0.21
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0141

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/02/81-12/02/81	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/02/81-12/02/81	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	12/02/81-12/02/81	1	11.8	11.8	11.8	11.8	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	12/02/81-12/02/81	1	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/02/81-12/02/81	1	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/02/81-12/02/81	1	2.512	2.512	2.512	2.512	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: GRSM0141

			Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			--------------n/a--------------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	1	0	0.00	1	0	0.00									
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									

& - 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: GRSM0142

NPS Station ID: GRSM0142 LAT/LON: 35.613892/ -83.270281 Agency: 131TVAC Date Created: 01/09/82
Location: TRIBUTARY TO RAVEN FORK 12.50 FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 370024
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0350 Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 12.50 00.75
HUC: 06010203 Depth of Water: 0 Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN Elevation: 0 Water Body Id:
Minor Basin: ENLOE CREEK 0.75 ECO Region:
RF1 Index: 06010203 RF1 Mile Point: 0.000 Distance from RF1: 8.60 On/Off RF1:
RF3 Index: 06010203006700.00 RF3 Mile Point: 0.00 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0142

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/02/81-03/24/82	2	6.05	6.05	6.7	5.4	0.845	0.919	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/02/81-03/24/82	2	10.	10.	10.	10.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	12/02/81-03/24/82	2	12.05	12.05	12.3	11.8	0.125	0.354	**	**	**	**
00400	PH (STANDARD UNITS)	12/02/81-03/24/82	2	5.5	5.5	5.7	5.3	0.08	0.283	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/02/81-03/24/82	2	5.455	5.455	5.7	5.3	0.084	0.29	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/02/81-03/24/82	2	3.504	3.504	5.012	1.995	4.55	2.133	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	12/02/81-12/02/81	1	5.7	5.7	5.7	5.7	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	12/02/81-12/02/81	1	5.7	5.7	5.7	5.7	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/02/81-12/02/81	1	1.995	1.995	1.995	1.995	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/02/81-12/02/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	12/02/81-12/02/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	12/02/81-12/02/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/02/81-12/02/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	12/02/81-12/02/81	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/02/81-12/02/81	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	12/02/81-12/02/81	1	0.81	0.81	0.81	0.81	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	12/02/81-12/02/81	1	0.63	0.63	0.63	0.63	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/02/81-12/02/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/02/81-12/02/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	12/02/81-12/02/81	1	42.	42.	42.	42.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	12/02/81-12/02/81	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	12/02/81-12/02/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/02/81-12/02/81	1	70.	70.	70.	70.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	12/02/81-12/02/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/02/81-12/02/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/02/81-12/02/81	1	11.	11.	11.	11.	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: GRSM0142

Parameter				Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			----------n/a----------			----------n/a----------		
		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	2	0	0.00	2	0	0.00									
00400	PH	Other-Hi Lim.	9.	2	0	0.00	2	0	0.00									
		Other-Lo Lim.	6.5	2	2	1.00	2	2	1.00									

& - 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: GRSM0142

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0143

NPS Station ID: GRSM0143
LAT/LON: 35.614448/ -83.249726
Agency: 131TVAC
Date Created: 04/17/82
Location: TRIBUTARY TO RAVEN FORK 13.19
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370035
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0380
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 13.19 00.03
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: UNNAMED TRIBUTARY 0.03
ECO Region:
RF1 Index: 06010203034
RF1 Mile Point: 4.670
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010203003403.99
RF3 Mile Point: 5.68
Distance from RF3: 0.41
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0143

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/22/82-03/22/82	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/22/82-03/22/82	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/22/82-03/22/82	1	9.5	9.5	9.5	9.5	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	03/22/82-03/22/82	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/22/82-03/22/82	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/22/82-03/22/82	1	0.794	0.794	0.794	0.794	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/22/82-03/22/82	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/22/82-03/22/82	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/22/82-03/22/82	1	1.259	1.259	1.259	1.259	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/22/82-03/22/82	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/22/82-03/22/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/22/82-03/22/82	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/22/82-03/22/82	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/22/82-03/22/82	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/22/82-03/22/82	1	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/22/82-03/22/82	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	03/22/82-03/22/82	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/22/82-03/22/82	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	03/22/82-03/22/82	1	0.96	0.96	0.96	0.96	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	03/22/82-03/22/82	1	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	03/22/82-03/22/82	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/22/82-03/22/82	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/22/82-03/22/82	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/22/82-03/22/82	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	03/22/82-03/22/82	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/22/82-03/22/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/22/82-03/22/82	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/22/82-03/22/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/22/82-03/22/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/22/82-03/22/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/22/82-03/22/82	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/22/82-03/22/82	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
32023	ACIDS, STRONG	03/22/82-03/22/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024	ACIDS, WEAK	03/22/82-03/22/82	1	50.	50.	50.	50.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	03/22/82-03/22/82	1	3.	3.	3.	3.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/22/82-03/22/82	1	10.	10.	10.	10.	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/22/82-03/22/82	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/22/82-03/22/82	1	0.4	0.4	0.4	0.4	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: GRSM0143

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71900	MERCURY, TOTAL (UG/L AS HG)	03/22/82-03/22/82	1 ##	0.1	0.1	0.1	0.1	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: GRSM0143

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	1	0	0.00	1	0	0.00									
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	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									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0144

NPS Station ID: GRSM0144
LAT/LON: 35.616670/ -83.668615
Agency: 112WRD
Date Created: / /
Location: LYNN CAMP PRONG NR BLANKET MT TENN
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03497240
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010201
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010201
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010201002508.63
RF3 Mile Point: 10.23
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0144

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	09/25/68-09/25/68	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	09/25/68-09/25/68	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/68-09/25/68	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/25/68-09/25/68	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/25/68-09/25/68	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/25/68-09/25/68	1	3.162	3.162	3.162	3.162	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/25/68-09/25/68	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/25/68-09/25/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/25/68-09/25/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/25/68-09/25/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/68-09/25/68	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/68-09/25/68	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/25/68-09/25/68	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/25/68-09/25/68	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/25/68-09/25/68	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/25/68-09/25/68	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/25/68-09/25/68	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/25/68-09/25/68	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/25/68-09/25/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/25/68-09/25/68	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/25/68-09/25/68	1	30.	30.	30.	30.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/25/68-09/25/68	1	18.	18.	18.	18.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/25/68-09/25/68	1	16.	16.	16.	16.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/25/68-09/25/68	1	0.22	0.22	0.22	0.22	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/25/68-09/25/68	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/25/68-09/25/68	1	0.4	0.4	0.4	0.4	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: GRSM0144

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						

& - 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: GRSM0145

NPS Station ID: GRSM0145
LAT/LON: 35.618615/ -83.249726
Agency: 131TVAC
Date Created: 04/17/82
Location: TRIBUTARY TO RAVEN FORK 13.49
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370033
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0400
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 13.49 00.02
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: JONES CREEK 0.02
ECO Region:
RF1 Index: 06010203034
RF1 Mile Point: 4.910
Distance from RF1: 11.50
On/Off RF1: OFF
RF3 Index: 06010203016100.00
RF3 Mile Point: 0.26
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0145

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/22/82-03/22/82	1	9.2	9.2	9.2	9.2	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/22/82-03/22/82	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/22/82-03/22/82	1	9.3	9.3	9.3	9.3	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	03/22/82-03/22/82	1	6.2	6.2	6.2	6.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/22/82-03/22/82	1	6.2	6.2	6.2	6.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/22/82-03/22/82	1	0.631	0.631	0.631	0.631	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/22/82-03/22/82	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/22/82-03/22/82	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/22/82-03/22/82	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/22/82-03/22/82	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/22/82-03/22/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/22/82-03/22/82	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/22/82-03/22/82	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/22/82-03/22/82	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/22/82-03/22/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/22/82-03/22/82	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	03/22/82-03/22/82	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/22/82-03/22/82	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	03/22/82-03/22/82	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	03/22/82-03/22/82	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	03/22/82-03/22/82	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/22/82-03/22/82	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/22/82-03/22/82	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/22/82-03/22/82	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	03/22/82-03/22/82	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/22/82-03/22/82	1	22.	22.	22.	22.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/22/82-03/22/82	1	90.	90.	90.	90.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/22/82-03/22/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/22/82-03/22/82	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/22/82-03/22/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/22/82-03/22/82	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/22/82-03/22/82	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
32023	ACIDS, STRONG	03/22/82-03/22/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024	ACIDS, WEAK	03/22/82-03/22/82	1	50.	50.	50.	50.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	03/22/82-03/22/82	1	3.	3.	3.	3.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/22/82-03/22/82	1	20.	20.	20.	20.	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/22/82-03/22/82	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/22/82-03/22/82	1	0.4	0.4	0.4	0.4	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: GRSM0145

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71900	MERCURY, TOTAL (UG/L AS HG)	03/22/82-03/22/82	1 ##	0.1	0.1	0.1	0.1	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: GRSM0145

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	1	0	0.00	1	0	0.00									
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	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									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0146

NPS Station ID: GRSM0146
LAT/LON: 35.618615/ -83.278892
Agency: 131TVAC
Date Created: 04/17/82
Location: TRIBUTARY TO RAVEN FORK 12.5
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370037
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0350
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 12.50 01.42
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: ENLOE CREEK 1.42
ECO Region:
RF1 Index: 06010203
RF1 Mile Point: 0.000
Distance from RF1: 11.00
On/Off RF1:
RF3 Index: 06010203005000.00
RF3 Mile Point: 0.90
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0146

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/82-03/24/82	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/82-03/24/82	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/24/82-03/24/82	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	03/24/82-03/24/82	1	5.7	5.7	5.7	5.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/24/82-03/24/82	1	5.7	5.7	5.7	5.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/82-03/24/82	1	1.995	1.995	1.995	1.995	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/24/82-03/24/82	1	5.3	5.3	5.3	5.3	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/24/82-03/24/82	1	5.3	5.3	5.3	5.3	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/82-03/24/82	1	5.012	5.012	5.012	5.012	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/24/82-03/24/82	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/24/82-03/24/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/24/82-03/24/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/24/82-03/24/82	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/24/82-03/24/82	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/24/82-03/24/82	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/24/82-03/24/82	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	03/24/82-03/24/82	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/24/82-03/24/82	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	03/24/82-03/24/82	1	0.76	0.76	0.76	0.76	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	03/24/82-03/24/82	1	0.32	0.32	0.32	0.32	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	03/24/82-03/24/82	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/24/82-03/24/82	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/82-03/24/82	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/24/82-03/24/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	03/24/82-03/24/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/24/82-03/24/82	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/24/82-03/24/82	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/24/82-03/24/82	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/24/82-03/24/82	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/24/82-03/24/82	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/24/82-03/24/82	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/24/82-03/24/82	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
32023	ACIDS, STRONG	03/24/82-03/24/82	1	10.	10.	10.	10.	0.	0.	**	**	**	**
32024	ACIDS, WEAK	03/24/82-03/24/82	1	50.	50.	50.	50.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	03/24/82-03/24/82	1	3.	3.	3.	3.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/24/82-03/24/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/24/82-03/24/82	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/24/82-03/24/82	1	2.4	2.4	2.4	2.4	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: GRSM0146

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71900	MERCURY, TOTAL (UG/L AS HG)	03/24/82-03/24/82	1 ##	0.1	0.1	0.1	0.1	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: GRSM0146

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	1	0	0.00	1	0	0.00									
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	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									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0147

NPS Station ID: GRSM0147
LAT/LON: 35.618892/ -83.539449
Agency: 112WRD
Date Created: 03/21/92
Location: FISH CAMP PRONG AB ELKMONT
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 353708083322200
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 1.50
On/Off RF1:
RF3 Index: 06010201008600.00
RF3 Mile Point: 1.87
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0147

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	10/29/91-10/29/91	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/29/91-10/29/91	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/29/91-10/29/91	1	0.126	0.126	0.126	0.126	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/29/91-10/29/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/29/91-10/29/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/29/91-10/29/91	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/91-10/29/91	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/91-10/29/91	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/91-10/29/91	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/29/91-10/29/91	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/29/91-10/29/91	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/29/91-10/29/91	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/29/91-10/29/91	1	5.4	5.4	5.4	5.4	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/29/91-10/29/91	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/91-10/29/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	10/29/91-10/29/91	1 ##	0.005	0.005	0.005	0.005	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: GRSM0147

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0148

NPS Station ID: GRSM0148
LAT/LON: 35.619171/ -83.278338
Agency: 131TVAC
Date Created: 04/17/82
Location: TRIBUTARY TO ENLOE CREEK 1.38
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370036
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0350 0060
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 12.50 01.38 00.02
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: HIDEAWAY BROOK 0.02
ECO Region:
RF1 Index: 06010203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010203003403.99
RF3 Mile Point: 5.96
Distance from RF3: 0.07
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0148

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/82-03/24/82	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/82-03/24/82	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/24/82-03/24/82	1	10.5	10.5	10.5	10.5	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	03/24/82-03/24/82	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/24/82-03/24/82	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/82-03/24/82	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/24/82-03/24/82	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/24/82-03/24/82	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/82-03/24/82	1	1.259	1.259	1.259	1.259	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/24/82-03/24/82	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/24/82-03/24/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/24/82-03/24/82	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/24/82-03/24/82	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/24/82-03/24/82	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/24/82-03/24/82	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/24/82-03/24/82	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	03/24/82-03/24/82	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/24/82-03/24/82	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	03/24/82-03/24/82	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	03/24/82-03/24/82	1	0.39	0.39	0.39	0.39	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	03/24/82-03/24/82	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/24/82-03/24/82	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/82-03/24/82	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/24/82-03/24/82	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	03/24/82-03/24/82	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/24/82-03/24/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/24/82-03/24/82	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/24/82-03/24/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/24/82-03/24/82	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/24/82-03/24/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/24/82-03/24/82	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/24/82-03/24/82	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
32023	ACIDS, STRONG	03/24/82-03/24/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024	ACIDS, WEAK	03/24/82-03/24/82	1	40.	40.	40.	40.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	03/24/82-03/24/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/24/82-03/24/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/24/82-03/24/82	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/24/82-03/24/82	1	3.4	3.4	3.4	3.4	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: GRSM0148

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71900	MERCURY, TOTAL (UG/L AS HG)	03/24/82-03/24/82	1 ##	0.1	0.1	0.1	0.1	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: GRSM0148

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	1	0	0.00	1	0	0.00									
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	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									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0149

NPS Station ID: GRSM0149 LAT/LON: 35.619171/ -83.537503 Agency: 112WRD Date Created: 02/29/92
Location: LITTLE R AB FISH CAMP PRONG AB ELKMONT FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 353709083321500
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: RF1 Mile Point: 0.000 Distance from RF1: 0.50 On/Off RF1:
RF3 Index: 06010201008601.44 RF3 Mile Point: 1.43 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0149

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	10/29/91-10/29/91	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/29/91-10/29/91	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/29/91-10/29/91	1	0.126	0.126	0.126	0.126	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/29/91-10/29/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/29/91-10/29/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/29/91-10/29/91	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/91-10/29/91	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/91-10/29/91	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/91-10/29/91	1	0.49	0.49	0.49	0.49	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/29/91-10/29/91	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/29/91-10/29/91	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/29/91-10/29/91	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/29/91-10/29/91	1	5.7	5.7	5.7	5.7	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/29/91-10/29/91	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/91-10/29/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	10/29/91-10/29/91	1 ##	0.005	0.005	0.005	0.005	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: GRSM0149

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0150

NPS Station ID: GRSM0150
LAT/LON: 35.621670/ -83.211393
Agency: 131TVAC
Date Created: 04/17/82
Location: TRIBUTARY TO RAVEN FORK 8.38
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370039
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0200
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 08.38 04.98
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: STRAIGHT FORK 4.98
ECO Region:
RF1 Index: 06010203033
RF1 Mile Point: 5.070
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010203003303.29
RF3 Mile Point: 3.32
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0150

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/26/82-03/26/82	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/82-03/26/82	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/26/82-03/26/82	1	9.7	9.7	9.7	9.7	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	03/26/82-03/26/82	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/26/82-03/26/82	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/82-03/26/82	1	1.585	1.585	1.585	1.585	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/26/82-03/26/82	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/26/82-03/26/82	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/82-03/26/82	1	1.585	1.585	1.585	1.585	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/82-03/26/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/26/82-03/26/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/26/82-03/26/82	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/26/82-03/26/82	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/26/82-03/26/82	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/26/82-03/26/82	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/26/82-03/26/82	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	03/26/82-03/26/82	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/26/82-03/26/82	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	03/26/82-03/26/82	1	0.93	0.93	0.93	0.93	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	03/26/82-03/26/82	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	03/26/82-03/26/82	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/26/82-03/26/82	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/82-03/26/82	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/26/82-03/26/82	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	03/26/82-03/26/82	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/26/82-03/26/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/26/82-03/26/82	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/26/82-03/26/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/26/82-03/26/82	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/26/82-03/26/82	1	35.	35.	35.	35.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/26/82-03/26/82	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/26/82-03/26/82	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
32023	ACIDS, STRONG	03/26/82-03/26/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024	ACIDS, WEAK	03/26/82-03/26/82	1	50.	50.	50.	50.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	03/26/82-03/26/82	1	4.	4.	4.	4.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/82-03/26/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/26/82-03/26/82	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/26/82-03/26/82	1	1.2	1.2	1.2	1.2	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

Parameter Inventory for Station: GRSM0150

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71900	MERCURY, TOTAL (UG/L AS HG)	03/26/82-03/26/82	1 ##	0.1	0.1	0.1	0.1	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: GRSM0150

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	1	0	0.00	1	0	0.00									
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	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									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0151

NPS Station ID: GRSM0151 LAT/LON: 35.625005/ -83.115282 Agency: 21NC01WQ Date Created: 01/25/79
Location: ROUGHFORK CK NR CATALOOCHEE NC INACT-791024 FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): E6426000 /FRB0492A
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 06010106 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: FRENCH BROAD ECO Region:
RF1 Index: 06010106 RF1 Mile Point: 0.000 Distance from RF1: 15.70 On/Off RF1:
RF3 Index: 06010106004200.71 RF3 Mile Point: 0.95 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0151

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/11/79-04/11/79	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/11/79-04/11/79	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/11/79-04/11/79	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/11/79-04/11/79	1	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	04/11/79-10/24/79	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	04/11/79-10/24/79	3	6.7	6.7	6.9	6.5	0.04	0.2	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/11/79-10/24/79	3	6.7	6.67	6.9	6.5	0.041	0.203	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/11/79-10/24/79	3	0.2	0.214	0.316	0.126	0.009	0.096	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	07/10/79-10/24/79	2	22.5	22.5	23.	22.	0.5	0.707	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	07/10/79-10/24/79	2 ##	7.25	7.25	14.	0.5	91.125	9.546	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	07/10/79-10/24/79	2	15.5	15.5	23.	8.	112.5	10.607	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/11/79-10/24/79	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/10/79-10/24/79	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	07/10/79-10/24/79	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/28/78-10/24/79	3 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/28/78-10/24/79	3 ##	0.05	0.1	0.2	0.05	0.008	0.087	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/28/78-10/24/79	3	0.19	0.27	0.49	0.13	0.037	0.193	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/28/78-04/11/79	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	11/28/78-11/28/78	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	11/28/78-11/28/78	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/28/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/28/78	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	11/28/78-11/28/78	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	11/28/78-11/28/78	2 ##	27.	27.	50.	4.	1058.	32.527	**	**	**	**
01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/28/78-11/28/78	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	11/28/78-11/28/78	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	11/28/78-11/28/78	2 ##	8025.	8025.	16000.	50.	127201250.	11278.353	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	11/28/78-11/28/78	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	11/28/78-11/28/78	1	3.9	3.9	3.9	3.9	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	11/28/78-11/28/78	2	90.	90.	120.	60.	1800.	42.426	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	11/28/78-11/28/78	2	58.5	58.5	70.	47.	264.5	16.263	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/11/79-10/24/79	3	5.	13.333	34.	1.	324.333	18.009	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/11/79-10/24/79	3	0.699	0.743	1.531	0.	0.588	0.767	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.54								
39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRSM0151

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-11/28/78	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/28/78-11/28/78	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	250.	250.	250.	250.	0.	0.	**	**	**	**
39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39811	CHLORDANE,GAMMA,IN BOTTOM DEPOS(UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/28/78-04/11/79	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	11/28/78-11/28/78	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	11/28/78-11/28/78	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: GRSM0151

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	1	0	0.00				1	0	0.00						
00400	PH	Other-Hi Lim.	9.	3	0	0.00	1	0	0.00	2	0	0.00						
		Other-Lo Lim.	6.5	3	1	0.33	1	0	0.00	2	1	0.50						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	3	0	0.00	2	0	0.00	1	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	0 &	0	0.00												
		Drinking Water	5.	0 &	0	0.00												
01034	CHROMIUM, TOTAL	Drinking Water	100.	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									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	5.	0 &	0	0.00												
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00	2	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	3	0	0.00	1	0	0.00	2	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0152

NPS Station ID: GRSM0152
LAT/LON: 35.627503/ -83.541115
Agency: 12NSS
Date Created: 10/22/88
Location: LITTLE RIVER
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 2A07810U /2AS2A07810U
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010201
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 811
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010201
RF1 Mile Point: 0.000
Distance from RF1: 0.30
On/Off RF1:
RF3 Index: 06010201003213.89
RF3 Mile Point: 18.90
Distance from RF3: 0.06
On/Off RF3:
Description:
THESE DATA WERE COLLECTED DURING PHASE I OF THE NATIONAL STREAM SURVEY AS PART OF EPA'S NATIONAL SURFACE WATER SURVEY AND AQUATIC EFFECTS RESEARCH PROGRAM UNDER THE NATIONAL ACID PRECIPITATION ASSESSMENT PROGRAM. THE SURVEY DESIGN, METHODS, AND DATA LIMITAITONS ARE DESCRIBED IN:

Parameter Inventory for Station: GRSM0152

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/10/85-07/10/85	1	15.7	15.7	15.7	15.7	0.	0.	**	**	**	**
00064	DEPTH OF STREAM, MEAN (FT)	07/10/85-07/10/85	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	07/10/85-07/10/85	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/10/85-07/10/85	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/10/85-07/10/85	1	8.9	8.9	8.9	8.9	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/10/85-07/10/85	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/10/85-07/10/85	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/10/85-07/10/85	1	0.251	0.251	0.251	0.251	0.	0.	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	07/10/85-07/10/85	1	66.2	66.2	66.2	66.2	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	07/10/85-07/10/85	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/10/85-07/10/85	1	0.007	0.007	0.007	0.007	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/10/85-07/10/85	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	07/10/85-07/10/85	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/10/85-07/10/85	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/10/85-07/10/85	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/10/85-07/10/85	1	0.75	0.75	0.75	0.75	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/10/85-07/10/85	1	0.41	0.41	0.41	0.41	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	07/10/85-07/10/85	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/10/85-07/10/85	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/10/85-07/10/85	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/10/85-07/10/85	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/10/85-07/10/85	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/10/85-07/10/85	1	32.	32.	32.	32.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/10/85-07/10/85	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
71885	IRON (UG/L AS FE)	07/10/85-07/10/85	1	1.	1.	1.	1.	0.	0.	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	07/10/85-07/10/85	1	2660.	2660.	2660.	2660.	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/10/85-07/10/85	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
83509	STREAM, WIDTH METER	07/10/85-07/10/85	1	25.	25.	25.	25.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0152

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Fresh Acute	4.	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						
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	1	1	1.00				1	1	1.00						
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0153

NPS Station ID: GRSM0153
LAT/LON: 35.628060/ -83.705282
Agency: 112WRD
Date Created: 02/29/92
Location: WEST PRONG AB LAUREL CR AB TOWNSEND
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 353741083421900
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 10.10
On/Off RF1:
RF3 Index: 06010201080803.33
RF3 Mile Point: 3.32
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0153

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	10/30/91-10/30/91	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/91-10/30/91	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/91-10/30/91	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/91-10/30/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/30/91-10/30/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/30/91-10/30/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/30/91-10/30/91	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/30/91-10/30/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/30/91-10/30/91	1	0.64	0.64	0.64	0.64	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/91-10/30/91	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/91-10/30/91	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/30/91-10/30/91	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/30/91-10/30/91	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/30/91-10/30/91	1	39.	39.	39.	39.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/30/91-10/30/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	10/30/91-10/30/91	1 ##	0.005	0.005	0.005	0.005	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: GRSM0153

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0154

NPS Station ID: GRSM0154
LAT/LON: 35.628893/ -83.088615
Agency: 112WRD
Date Created: 02/29/92
Location: CALDWELL FORK NR NELLIE
FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 353744083051900
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 13.30
On/Off RF1:
RF3 Index: 06010106048401.62
RF3 Mile Point: 2.20
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0154

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	10/31/91-10/31/91	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/31/91-10/31/91	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/31/91-10/31/91	1	0.126	0.126	0.126	0.126	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/31/91-10/31/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/31/91-10/31/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/91-10/31/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/91-10/31/91	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/91-10/31/91	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/91-10/31/91	1	0.61	0.61	0.61	0.61	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/31/91-10/31/91	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/91-10/31/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/91-10/31/91	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/91-10/31/91	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/31/91-10/31/91	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/31/91-10/31/91	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	10/31/91-10/31/91	1 ##	0.005	0.005	0.005	0.005	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: GRSM0154

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0155

NPS Station ID: GRSM0155 LAT/LON: 35.629170/ -83.116670 Agency: 21NC01WQ Date Created: 01/25/79
Location: PALMER CK @ SR1164 NR CATALOOCHEE INACT-791024 FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): E6425000 /FRB0491A
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 06010106 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: FRENCH BROAD ECO Region:
RF1 Index: 06010106 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010106002203.05 RF3 Mile Point: 3.04 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0155

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/11/79-04/11/79	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/11/79-04/11/79	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/11/79-04/11/79	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/11/79-04/11/79	1	10.3	10.3	10.3	10.3	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	04/11/79-10/24/79	3 ##	5.	7.667	13.	5.	21.333	4.619	**	**	**	**
00400	PH (STANDARD UNITS)	04/11/79-10/24/79	3	6.6	6.633	6.8	6.5	0.023	0.153	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/11/79-10/24/79	3	6.6	6.616	6.8	6.5	0.024	0.154	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/11/79-10/24/79	3	0.251	0.242	0.316	0.158	0.006	0.079	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	07/10/79-10/24/79	2	16.5	16.5	19.	14.	12.5	3.536	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	07/10/79-10/24/79	2 ##	7.75	7.75	15.	0.5	105.125	10.253	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	07/10/79-10/24/79	2	9.	9.	14.	4.	50.	7.071	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/11/79-10/24/79	3	5.	6.333	10.	4.	10.333	3.215	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/10/79-10/24/79	2 ##	3.25	3.25	6.	0.5	15.125	3.889	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	07/10/79-10/24/79	2	4.5	4.5	5.	4.	0.5	0.707	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/28/78-10/24/79	3 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/28/78-10/24/79	3 ##	0.05	0.067	0.1	0.05	0.001	0.029	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/28/78-10/24/79	3	0.13	0.148	0.29	0.025	0.018	0.133	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/28/78-04/11/79	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	11/28/78-11/28/78	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	11/28/78-11/28/78	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/28/78	1 ##	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/28/78	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	11/28/78-11/28/78	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	11/28/78-11/28/78	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/28/78-11/28/78	1	31.	31.	31.	31.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	11/28/78-11/28/78	1	90.	90.	90.	90.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	11/28/78-11/28/78	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	11/28/78-11/28/78	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	11/28/78-11/28/78	1	4.8	4.8	4.8	4.8	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	11/28/78-11/28/78	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	11/28/78-11/28/78	1	70.	70.	70.	70.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/11/79-10/24/79	3	5.	7.	11.	5.	12.	3.464	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/11/79-10/24/79	3	0.699	0.813	1.041	0.699	0.039	0.198	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			6.503								
39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRSM0155

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-11/28/78	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/28/78-11/28/78	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	250.	250.	250.	250.	0.	0.	**	**	**	**
39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39811	CHLORDANE,GAMMA,IN BOTTOM DEPOS(UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/28/78-04/11/79	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	11/28/78-11/28/78	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	11/28/78-11/28/78	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0155

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	1	0	0.00				1	0	0.00						
00400	PH	Other-Hi Lim.	9.	3	0	0.00	1	0	0.00	2	0	0.00						
		Other-Lo Lim.	6.5	3	1	0.33	1	0	0.00	2	1	0.50						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	3	0	0.00	2	0	0.00	1	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	0 &	0	0.00												
		Drinking Water	5.	0 &	0	0.00												
01034	CHROMIUM, TOTAL	Drinking Water	100.	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									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	5.	0 &	0	0.00												
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	3	0	0.00	1	0	0.00	2	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0156

NPS Station ID: GRSM0156
LAT/LON: 35.629448/ -83.116948
Agency: 112WRD
Date Created: 02/29/92
Location: PALMER CR AT NELLIE
FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 353746083070100
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 0.60
On/Off RF1:
RF3 Index: 06010106001206.42
RF3 Mile Point: 6.42
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0156

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	10/31/91-10/31/91	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/31/91-10/31/91	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/31/91-10/31/91	1	0.126	0.126	0.126	0.126	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/31/91-10/31/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/31/91-10/31/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/91-10/31/91	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/91-10/31/91	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/91-10/31/91	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/91-10/31/91	1	0.57	0.57	0.57	0.57	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/31/91-10/31/91	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/91-10/31/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/91-10/31/91	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/91-10/31/91	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/31/91-10/31/91	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/31/91-10/31/91	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	10/31/91-10/31/91	1 ##	0.005	0.005	0.005	0.005	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: GRSM0156

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0157

NPS Station ID: GRSM0157 LAT/LON: 35.630559/ -83.087503 Agency: 21NC01WQ Date Created: 01/25/79
Location: CALABASH CK 1.2 MI US SR1164 INACT-791024 FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): E6427000 /FRB0493A
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 06010106 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: FRENCH BROAD ECO Region:
RF1 Index: 06010106012 RF1 Mile Point: 6.420 Distance from RF1: 13.50 On/Off RF1: OFF
RF3 Index: 06010106048500.00 RF3 Mile Point: 0.00 Distance from RF3: 0.04 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0157

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/11/79-04/11/79	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/11/79-04/11/79	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/11/79-04/11/79	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/11/79-04/11/79	1	10.4	10.4	10.4	10.4	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	04/11/79-10/24/79	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	04/11/79-10/24/79	3	6.8	6.767	6.8	6.7	0.003	0.058	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/11/79-10/24/79	3	6.8	6.764	6.8	6.7	0.003	0.058	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/11/79-10/24/79	3	0.158	0.172	0.2	0.158	0.001	0.024	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	07/10/79-10/24/79	2	22.5	22.5	25.	20.	12.5	3.536	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	07/10/79-10/24/79	2 ##	8.75	8.75	17.	0.5	136.125	11.667	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	07/10/79-10/24/79	2	14.	14.	20.	8.	72.	8.485	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/11/79-10/24/79	3	2.	2.167	4.	0.5	3.083	1.756	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/10/79-10/24/79	2 ##	1.75	1.75	3.	0.5	3.125	1.768	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	07/10/79-10/24/79	2 ##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/28/78-10/24/79	3 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/28/78-10/24/79	3 ##	0.05	0.1	0.2	0.05	0.008	0.087	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/28/78-10/24/79	3	0.1	0.085	0.13	0.025	0.003	0.054	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/28/78-04/11/79	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	11/28/78-11/28/78	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	11/28/78-11/28/78	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/28/78	1 ##	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/28/78	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	11/28/78-11/28/78	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	11/28/78-11/28/78	2 ##	27.5	27.5	50.	5.	1012.5	31.82	**	**	**	**
01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/28/78-11/28/78	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	11/28/78-11/28/78	1 ##	20.	20.	20.	20.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	11/28/78-11/28/78	2 ##	9525.	9525.	19000.	50.	179551250.	13399.674	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	11/28/78-11/28/78	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	11/28/78-11/28/78	1	4.9	4.9	4.9	4.9	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	11/28/78-11/28/78	2 ##	162.5	162.5	300.	25.	37812.5	194.454	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	11/28/78-11/28/78	2 ##	34.5	34.5	44.	25.	180.5	13.435	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/11/79-10/24/79	3	3.	3.333	5.	2.	2.333	1.528	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/11/79-10/24/79	3	0.477	0.492	0.699	0.301	0.04	0.199	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			3.107								
39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRSM0157

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-11/28/78	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/28/78-11/28/78	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	250.	250.	250.	250.	0.	0.	**	**	**	**
39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39811	CHLORDANE,GAMMA,IN BOTTOM DEPOS(UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/28/78-04/11/79	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	11/28/78-11/28/78	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	11/28/78-11/28/78	1	0.7	0.7	0.7	0.7	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: GRSM0157

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a 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.	1	0	0.00				1	0	0.00						
00400	PH	Other-Hi Lim.	9.	3	0	0.00	1	0	0.00	2	0	0.00						
		Other-Lo Lim.	6.5	3	0	0.00	1	0	0.00	2	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	3	0	0.00	2	0	0.00	1	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	0 &	0	0.00												
		Drinking Water	5.	0 &	0	0.00												
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	0 &	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	5.	0 &	0	0.00												
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00	2	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	3	0	0.00	1	0	0.00	2	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0158

NPS Station ID: GRSM0158
LAT/LON: 35.631115/ -83.088337
Agency: 112WRD
Date Created: 02/29/92
Location: PALMER CR AT CAMPGROUND NR NELLIE
FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 353752083051800
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 15.90
On/Off RF1:
RF3 Index: 06010106004200.71
RF3 Mile Point: 0.95
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0158

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	10/31/91-10/31/91	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/31/91-10/31/91	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/31/91-10/31/91	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/31/91-10/31/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/31/91-10/31/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/91-10/31/91	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/91-10/31/91	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/91-10/31/91	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/91-10/31/91	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/31/91-10/31/91	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/91-10/31/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/91-10/31/91	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/91-10/31/91	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/31/91-10/31/91	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/31/91-10/31/91	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	10/31/91-10/31/91	1 ##	0.005	0.005	0.005	0.005	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: GRSM0158

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0159

NPS Station ID: GRSM0159
LAT/LON: 35.633892/ -83.085004
Agency: 112WRD
Date Created: 02/29/92
Location: LOWER DOUBLE BRANCH NR NELLIE
FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 353802083050600
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 0.60
On/Off RF1:
RF3 Index: 06010106004200.00
RF3 Mile Point: 0.00
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0159

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	10/31/91-10/31/91	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/31/91-10/31/91	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/31/91-10/31/91	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/31/91-10/31/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/31/91-10/31/91	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/91-10/31/91	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/91-10/31/91	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/91-10/31/91	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/91-10/31/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/31/91-10/31/91	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/91-10/31/91	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/91-10/31/91	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/91-10/31/91	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/31/91-10/31/91	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/31/91-10/31/91	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	10/31/91-10/31/91	1 ##	0.005	0.005	0.005	0.005	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: GRSM0159

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0160

NPS Station ID: GRSM0160
LAT/LON: 35.636392/ -83.237781
Agency: 131TVAC
Date Created: 05/08/82
Location: TRIBUTARY TO RAVEN FORK 13.49
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370043
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0400
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 13.49 01.42
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: JONES CREEK 1.42
ECO Region:
RF1 Index: 06010203
RF1 Mile Point: 0.000
Distance from RF1: 25.60
On/Off RF1:
RF3 Index: 06010203004401.71
RF3 Mile Point: 1.73
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0160

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/20/82-04/20/82	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/20/82-04/20/82	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/20/82-04/20/82	1	11.7	11.7	11.7	11.7	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	04/20/82-04/20/82	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/20/82-04/20/82	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/20/82-04/20/82	1	1.585	1.585	1.585	1.585	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/20/82-04/20/82	1	6.2	6.2	6.2	6.2	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/20/82-04/20/82	1	6.2	6.2	6.2	6.2	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/20/82-04/20/82	1	0.631	0.631	0.631	0.631	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/20/82-04/20/82	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/20/82-04/20/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/20/82-04/20/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/20/82-04/20/82	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/20/82-04/20/82	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/20/82-04/20/82	1	3.2	3.2	3.2	3.2	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	04/20/82-04/20/82	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	04/20/82-04/20/82	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/20/82-04/20/82	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	04/20/82-04/20/82	1	0.73	0.73	0.73	0.73	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	04/20/82-04/20/82	1	0.36	0.36	0.36	0.36	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/20/82-04/20/82	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/20/82-04/20/82	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/20/82-04/20/82	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	04/20/82-04/20/82	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	04/20/82-04/20/82	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	04/20/82-04/20/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/20/82-04/20/82	1	110.	110.	110.	110.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/20/82-04/20/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	04/20/82-04/20/82	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	04/20/82-04/20/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	04/20/82-04/20/82	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	04/20/82-04/20/82	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
32023	ACIDS, STRONG	04/20/82-04/20/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024	ACIDS, WEAK	04/20/82-04/20/82	1	30.	30.	30.	30.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	04/20/82-04/20/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/20/82-04/20/82	1	10.	10.	10.	10.	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/20/82-04/20/82	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	04/20/82-04/20/82	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRSM0160

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71900	MERCURY, TOTAL (UG/L AS HG)	04/20/82-04/20/82	1 ##	0.1	0.1	0.1	0.1	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: GRSM0160

				Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	1	0	0.00				1	0	0.00						
00400	PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	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						
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00				1	0	0.00						
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0161

NPS Station ID: GRSM0161
LAT/LON: 35.637226/ -83.492781
Agency: 112WRD
Date Created: / /
Location: W P LT PIGEON R NR MT LE CONTE TN
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03469225
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010107
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010107015
RF1 Mile Point: 7.980
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010107002101.71
RF3 Mile Point: 2.91
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0161

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	09/25/68-09/25/68	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	09/25/68-09/25/68	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/68-09/25/68	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/25/68-09/25/68	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/25/68-09/25/68	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/25/68-09/25/68	1	1.585	1.585	1.585	1.585	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/25/68-09/25/68	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/25/68-09/25/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/25/68-09/25/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/25/68-09/25/68	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/68-09/25/68	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/68-09/25/68	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/25/68-09/25/68	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/25/68-09/25/68	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/25/68-09/25/68	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/25/68-09/25/68	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/25/68-09/25/68	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/25/68-09/25/68	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/25/68-09/25/68	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/25/68-09/25/68	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/25/68-09/25/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/25/68-09/25/68	1	21.	21.	21.	21.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/25/68-09/25/68	1	14.	14.	14.	14.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/25/68-09/25/68	1	0.79	0.79	0.79	0.79	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/25/68-09/25/68	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/25/68-09/25/68	1	1.4	1.4	1.4	1.4	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: GRSM0161

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						

& - 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: GRSM0162

NPS Station ID: GRSM0162
LAT/LON: 35.638892/ -83.130838
Agency: 112WRD
Date Created: 02/29/92
Location: PALMER CR AB PRETTY HOLLOW NR NELLIE
FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 353820083075100
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 1.00
On/Off RF1:
RF3 Index: 06010106047200.00
RF3 Mile Point: 0.29
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0162

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	10/31/91-10/31/91	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/31/91-10/31/91	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/31/91-10/31/91	1	0.158	0.158	0.158	0.158	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/31/91-10/31/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/31/91-10/31/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/91-10/31/91	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/91-10/31/91	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/91-10/31/91	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/91-10/31/91	1	0.53	0.53	0.53	0.53	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/31/91-10/31/91	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/91-10/31/91	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/91-10/31/91	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/91-10/31/91	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/31/91-10/31/91	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/31/91-10/31/91	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	10/31/91-10/31/91	1 ##	0.005	0.005	0.005	0.005	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: GRSM0162

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0163

NPS Station ID: GRSM0163
LAT/LON: 35.639448/ -83.240003
Agency: 131TVAC
Date Created: 04/17/82
Location: TRIBUTARY TO RIGHT FORK 1.03
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370030
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0520 0020
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 16.74 01.03 00.37
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: MCGEE SPRINGS 0.37
ECO Region:
RF1 Index: 06010203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010203003401.82
RF3 Mile Point: 2.04
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0163

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/23/82-04/20/82	2	8.6	8.6	8.8	8.4	0.08	0.283	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/23/82-04/20/82	2	14.5	14.5	19.	10.	40.5	6.364	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/23/82-04/20/82	2	9.95	9.95	11.9	8.	7.605	2.758	**	**	**	**
00400	PH (STANDARD UNITS)	03/23/82-04/20/82	2	5.15	5.15	5.3	5.	0.045	0.212	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/23/82-04/20/82	2	5.125	5.125	5.3	5.	0.046	0.215	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/23/82-04/20/82	2	7.506	7.506	10.	5.012	12.441	3.527	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/23/82-04/20/82	2	5.7	5.7	6.	5.4	0.18	0.424	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/23/82-04/20/82	2	5.604	5.604	6.	5.4	0.199	0.446	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/23/82-04/20/82	2	2.491	2.491	3.981	1.	4.443	2.108	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/23/82-04/20/82	2	2.5	2.5	3.	2.	0.5	0.707	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/23/82-04/20/82	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/23/82-04/20/82	2	8.5	8.5	15.	2.	84.5	9.192	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/23/82-04/20/82	2 ##	0.108	0.108	0.21	0.005	0.021	0.145	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/23/82-04/20/82	2 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/23/82-04/20/82	2	1.55	1.55	2.2	0.9	0.845	0.919	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/23/82-04/20/82	2 ##	0.45	0.45	0.8	0.1	0.245	0.495	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	03/23/82-04/20/82	2	0.8	0.8	0.9	0.7	0.02	0.141	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/23/82-04/20/82	2	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	03/23/82-04/20/82	2	0.75	0.75	0.75	0.75	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	03/23/82-04/20/82	2	0.39	0.39	0.47	0.31	0.013	0.113	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	03/23/82-04/20/82	2	0.45	0.45	0.6	0.3	0.045	0.212	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/23/82-04/20/82	2	0.5	0.5	0.6	0.4	0.02	0.141	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/23/82-04/20/82	2	0.03	0.03	0.04	0.02	0.	0.014	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/23/82-04/20/82	2	2.4	2.4	2.6	2.2	0.08	0.283	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	03/23/82-04/20/82	2	2.4	2.4	2.6	2.2	0.08	0.283	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/23/82-04/20/82	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/23/82-04/20/82	2	80.	80.	90.	70.	200.	14.142	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/23/82-04/20/82	2 ##	9.5	9.5	14.	5.	40.5	6.364	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/23/82-04/20/82	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/23/82-04/20/82	2 ##	10.	10.	15.	5.	50.	7.071	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/23/82-04/20/82	2	100.	100.	120.	80.	800.	28.284	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/23/82-04/20/82	2 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
32023	ACIDS, STRONG	03/23/82-04/20/82	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024	ACIDS, WEAK	03/23/82-04/20/82	2	60.	60.	70.	50.	200.	14.142	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	03/23/82-04/20/82	2	3.	3.	3.	3.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/23/82-04/20/82	2 ##	12.5	12.5	20.	5.	112.5	10.607	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/23/82-04/20/82	2 ##	0.153	0.153	0.3	0.005	0.044	0.209	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/23/82-04/20/82	2	1.45	1.45	2.7	0.2	3.125	1.768	**	**	**	**

** - Less 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: GRSM0163

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71900	MERCURY, TOTAL (UG/L AS HG)	03/23/82-04/20/82	2 ##	0.1	0.1	0.1	0.1	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: GRSM0163

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	2	0	0.00	1	0	0.00	1	0	0.00						
00400	PH	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	2	2	1.00	1	1	1.00	1	1	1.00						
00403	PH, LAB	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	2	2	1.00	1	1	1.00	1	1	1.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	1	0	0.00	1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	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						
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00	1	0	0.00	1	0	0.00						
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	2	0	0.00	1	0	0.00	1	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	2.	2	0	0.00	1	0	0.00	1	0	0.00						

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

Station Inventory for Station: GRSM0164

NPS Station ID: GRSM0164 LAT/LON: 35.641392/ -83.690003 Agency: 112WRD Date Created: / /
Location: MI PR LITTLE R AT WALKER FIELDS NR TOWNSEND T FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 03497270
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 06010201 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010201 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010201081905.21 RF3 Mile Point: 5.37 Distance from RF3: 0.03 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0164

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	09/25/68-09/25/68	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	09/25/68-09/25/68	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/68-09/25/68	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/25/68-09/25/68	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/25/68-09/25/68	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/25/68-09/25/68	1	1.259	1.259	1.259	1.259	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/25/68-09/25/68	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/25/68-09/25/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/25/68-09/25/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/25/68-09/25/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/68-09/25/68	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/68-09/25/68	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/25/68-09/25/68	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/25/68-09/25/68	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/25/68-09/25/68	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/25/68-09/25/68	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/25/68-09/25/68	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/25/68-09/25/68	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/25/68-09/25/68	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/25/68-09/25/68	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/25/68-09/25/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	08/05/68-08/05/68	1	224.	224.	224.	224.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	08/05/68-08/05/68	1	2.35	2.35	2.35	2.35	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			224.								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/25/68-09/25/68	1	22.	22.	22.	22.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/25/68-09/25/68	1	17.	17.	17.	17.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/25/68-09/25/68	1	0.42	0.42	0.42	0.42	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/25/68-09/25/68	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/25/68-09/25/68	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0164

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	1	0	0.00				1	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						

& - 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: GRSM0165

NPS Station ID: GRSM0165
LAT/LON: 35.641948/ -83.128893
Agency: 112WRD
Date Created: 02/29/92
Location: PRETTY HOLLOW NR NELLIE
FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 353831083074400
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 25.50
On/Off RF1:
RF3 Index: 06010106004201.42
RF3 Mile Point: 1.41
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0165

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	10/31/91-10/31/91	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/31/91-10/31/91	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/31/91-10/31/91	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/31/91-10/31/91	1	0.12	0.12	0.12	0.12	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/31/91-10/31/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/91-10/31/91	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/91-10/31/91	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/91-10/31/91	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/91-10/31/91	1	0.54	0.54	0.54	0.54	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/31/91-10/31/91	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/91-10/31/91	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/91-10/31/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/91-10/31/91	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/31/91-10/31/91	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/31/91-10/31/91	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	10/31/91-10/31/91	1 ##	0.005	0.005	0.005	0.005	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: GRSM0165

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0166

NPS Station ID: GRSM0166 LAT/LON: 35.642226/ -83.244727 Agency: 131TVAC Date Created: 04/17/82
Location: TRIBUTARY TO RIGHT FORK 1.03 FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 370031
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0520 0020 Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 16.74 01.03 00.03
HUC: 06010203 Depth of Water: 0 Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN Elevation: 0 Water Body Id:
Minor Basin: MCGEE SPRINGS 0.03 ECO Region:
RF1 Index: 06010203 RF1 Mile Point: 0.000 Distance from RF1: 11.70 On/Off RF1:
RF3 Index: 06010203006800.00 RF3 Mile Point: 0.00 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0166

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/23/82-03/23/82	1	5.4	5.4	5.4	5.4	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/23/82-03/23/82	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/23/82-03/23/82	1	9.7	9.7	9.7	9.7	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	03/23/82-03/23/82	1	5.7	5.7	5.7	5.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/23/82-03/23/82	1	5.7	5.7	5.7	5.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/23/82-03/23/82	1	1.995	1.995	1.995	1.995	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: GRSM0166

			Total	Exceed	Prop.	10/01-3/31			4/01-9/30			n/a			n/a		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	1	0	0.00	1	0	0.00									
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									

& - 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: GRSM0167

NPS Station ID: GRSM0167
LAT/LON: 35.642226/ -83.252781
Agency: 131TVAC
Date Created: 05/08/82
Location: TRIBUTARY TO RAVEN FORK 16.74 ABOVE RAPID CREEK
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370044
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0520
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 16.74 00.58
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: RIGHT FORK 0.58
ECO Region:
RF1 Index: 06010203
RF1 Mile Point: 0.000
Distance from RF1: 10.90
On/Off RF1:
RF3 Index: 06010203015900.00
RF3 Mile Point: 1.19
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0167

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/21/82-04/21/82	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/21/82-04/21/82	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/21/82-04/21/82	1	11.9	11.9	11.9	11.9	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	04/21/82-04/21/82	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/21/82-04/21/82	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/21/82-04/21/82	1	3.162	3.162	3.162	3.162	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/21/82-04/21/82	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/21/82-04/21/82	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/21/82-04/21/82	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/21/82-04/21/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/21/82-04/21/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/21/82-04/21/82	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/21/82-04/21/82	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/21/82-04/21/82	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/21/82-04/21/82	1	3.6	3.6	3.6	3.6	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	04/21/82-04/21/82	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00745	SULFIDE, TOTAL (MG/L AS S)	04/21/82-04/21/82	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	04/21/82-04/21/82	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/21/82-04/21/82	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	04/21/82-04/21/82	1	0.68	0.68	0.68	0.68	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	04/21/82-04/21/82	1	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/21/82-04/21/82	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/21/82-04/21/82	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/21/82-04/21/82	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	04/21/82-04/21/82	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	04/21/82-04/21/82	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	04/21/82-04/21/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/21/82-04/21/82	1	70.	70.	70.	70.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/21/82-04/21/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	04/21/82-04/21/82	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	04/21/82-04/21/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	04/21/82-04/21/82	1	80.	80.	80.	80.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	04/21/82-04/21/82	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
32023	ACIDS, STRONG	04/21/82-04/21/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024	ACIDS, WEAK	04/21/82-04/21/82	1	40.	40.	40.	40.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	04/21/82-04/21/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/82-04/21/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/21/82-04/21/82	1 ##	0.005	0.005	0.005	0.005	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: GRSM0167

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	04/21/82-04/21/82	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	04/21/82-04/21/82	1 ##	0.1	0.1	0.1	0.1	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: GRSM0167

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	1	0	0.00				1	0	0.00						
00400	PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	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						
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00				1	0	0.00						
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0168

NPS Station ID: GRSM0168
LAT/LON: 35.642781/ -83.253060
Agency: 131TVAC
Date Created: 05/08/82
Location: TRIBUTARY TO RIGHT FORK 0.56
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370045
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0520 0010
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 16.74 00.56 00.01
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: RAPID CREEK 0.01
ECO Region:
RF1 Index: 06010203
RF1 Mile Point: 0.000
Distance from RF1: 7.10
On/Off RF1:
RF3 Index: 06010203016100.00
RF3 Mile Point: 0.04
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0168

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/21/82-04/21/82	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/21/82-04/21/82	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/21/82-04/21/82	1	12.1	12.1	12.1	12.1	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	04/21/82-04/21/82	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/21/82-04/21/82	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/21/82-04/21/82	1	3.162	3.162	3.162	3.162	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/21/82-04/21/82	1	6.2	6.2	6.2	6.2	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/21/82-04/21/82	1	6.2	6.2	6.2	6.2	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/21/82-04/21/82	1	0.631	0.631	0.631	0.631	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/21/82-04/21/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/21/82-04/21/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/21/82-04/21/82	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/21/82-04/21/82	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/21/82-04/21/82	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/21/82-04/21/82	1	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	04/21/82-04/21/82	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	04/21/82-04/21/82	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/21/82-04/21/82	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	04/21/82-04/21/82	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	04/21/82-04/21/82	1	0.42	0.42	0.42	0.42	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/21/82-04/21/82	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/21/82-04/21/82	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/21/82-04/21/82	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	04/21/82-04/21/82	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	04/21/82-04/21/82	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	04/21/82-04/21/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/21/82-04/21/82	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/21/82-04/21/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	04/21/82-04/21/82	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	04/21/82-04/21/82	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	04/21/82-04/21/82	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	04/21/82-04/21/82	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
32023	ACIDS, STRONG	04/21/82-04/21/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024	ACIDS, WEAK	04/21/82-04/21/82	1	30.	30.	30.	30.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	04/21/82-04/21/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/82-04/21/82	1	10.	10.	10.	10.	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/21/82-04/21/82	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	04/21/82-04/21/82	1	1.9	1.9	1.9	1.9	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 time series plot

Parameter Inventory for Station: GRSM0168

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71900	MERCURY, TOTAL (UG/L AS HG)	04/21/82-04/21/82	1 ##	0.1	0.1	0.1	0.1	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: GRSM0168

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	1	0	0.00				1	0	0.00						
00400	PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	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						
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00				1	0	0.00						
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0169

NPS Station ID: GRSM0169
LAT/LON: 35.643059/ -83.244727
Agency: 131TVAC
Date Created: 04/17/82
Location: TRIBUTARY TO RAVEN FORK 16.74
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370032
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0520
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 16.74 01.09
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: RIGHT FORK 1.09
ECO Region:
RF1 Index: 06010203
RF1 Mile Point: 0.000
Distance from RF1: 11.60
On/Off RF1:
RF3 Index: 06010203016100.00
RF3 Mile Point: 0.49
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0169

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/23/82-03/23/82	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/23/82-03/23/82	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/23/82-03/23/82	1	10.1	10.1	10.1	10.1	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	03/23/82-03/23/82	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/23/82-03/23/82	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/23/82-03/23/82	1	3.162	3.162	3.162	3.162	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: GRSM0169

			Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			--------------n/a--------------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	1	0	0.00	1	0	0.00									
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									

& - 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: GRSM0170

NPS Station ID: GRSM0170
LAT/LON: 35.643059/ -83.585560
Agency: 112WRD
Date Created: 02/29/92
Location: JAKES CR NR ELKMONT
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 353835083350800
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 0.20
On/Off RF1:
RF3 Index: 06010201003227.98
RF3 Mile Point: 28.31
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0170

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	10/29/91-10/29/91	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/29/91-10/29/91	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/29/91-10/29/91	1	0.126	0.126	0.126	0.126	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/29/91-10/29/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/29/91-10/29/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/29/91-10/29/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/91-10/29/91	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/91-10/29/91	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/91-10/29/91	1	0.53	0.53	0.53	0.53	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/29/91-10/29/91	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/29/91-10/29/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/29/91-10/29/91	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/29/91-10/29/91	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/29/91-10/29/91	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/91-10/29/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	10/29/91-10/29/91	1 ##	0.005	0.005	0.005	0.005	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: GRSM0170

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0171

NPS Station ID: GRSM0171
LAT/LON: 35.643616/ -83.591670
Agency: 21TNWQ
Date Created: 09/11/82
Location: W PRONG LITTLE PIGEON R 7.7 QUAD 156SE
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): LPIGEONIS17
RMI-Indexes: 1021500 007720 00920 9300 1120 0220
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 652.10 027.40 005.10 007.70
HUC: 06010201
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER
Elevation: 0
Water Body Id:
Minor Basin: FRENCH BROAD RIVER
ECO Region:
RF1 Index: 06010201
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010107001006.44
RF3 Mile Point: 6.44
Distance from RF3: 0.09
On/Off RF3:
Description:
100 YDS BELOW PIGEON FORGE WWTP
WQ LIB INDEX NO. AW0.03

Parameter Inventory for Station: GRSM0171

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/15/81-07/23/81	4	18.	17.2	24.8	8.	48.56	6.969	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/15/81-07/23/81	4	9.2	9.025	10.4	7.3	1.703	1.305	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	04/15/81-07/23/81	4	1.	1.2	1.8	1.	0.16	0.4	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	04/15/81-07/23/81	4	5.	7.	13.	5.	16.	4.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/15/81-07/23/81	4	7.2	7.325	7.7	7.2	0.063	0.25	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/15/81-07/23/81	4	7.2	7.281	7.7	7.2	0.065	0.255	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/15/81-07/23/81	4	0.063	0.052	0.063	0.02	0.	0.022	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/15/81-07/23/81	4	0.1	0.118	0.21	0.06	0.004	0.064	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/15/81-07/23/81	4	0.725	0.752	1.3	0.26	0.204	0.452	**	**	**	**
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	04/15/81-07/23/81	4	0.3	0.45	1.1	0.1	0.203	0.451	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/15/81-07/23/81	4	0.075	0.188	0.56	0.04	0.062	0.249	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/23/81-07/23/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/23/81-07/23/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/23/81-07/23/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	07/23/81-07/23/81	1	1400.	1400.	1400.	1400.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	07/23/81-07/23/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/23/81-07/23/81	1	67.	67.	67.	67.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/23/81-07/23/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/23/81-07/23/81	1	28.	28.	28.	28.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0171

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	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						
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						

& - 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: GRSM0171

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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	5.	1	1	1.00				1	1	1.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0172

NPS Station ID: GRSM0172
LAT/LON: 35.645559/ -83.075282
Agency: 112WRD
Date Created: 02/29/92
Location: WINDING STAIR BRANCH NR NELLIE
FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 353844083043100
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 25.30
On/Off RF1:
RF3 Index: 06010106047600.00
RF3 Mile Point: 0.25
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0172

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	10/31/91-10/31/91	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/31/91-10/31/91	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/31/91-10/31/91	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/31/91-10/31/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/31/91-10/31/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/91-10/31/91	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/91-10/31/91	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/91-10/31/91	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/91-10/31/91	1	0.93	0.93	0.93	0.93	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/31/91-10/31/91	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/91-10/31/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/91-10/31/91	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/91-10/31/91	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/31/91-10/31/91	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/31/91-10/31/91	1	2.	2.	2.	2.	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	10/31/91-10/31/91	1 ##	0.005	0.005	0.005	0.005	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: GRSM0172

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0173

NPS Station ID: GRSM0173
LAT/LON: 35.647504/ -83.306115
Agency: 131TVAC
Date Created: 01/09/82
Location: TRIBUTARY TO ENLOE CREEK 4.91
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370026
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0350 0130
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 12.50 04.91 00.24
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: UNNAMED TRIBUTARY 0.24
ECO Region:
RF1 Index: 06010203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010203003403.99
RF3 Mile Point: 4.88
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0173

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/02/81-03/25/82	2	7.6	7.6	8.	7.2	0.32	0.566	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/02/81-03/25/82	2	19.	19.	20.	18.	2.	1.414	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	12/02/81-03/25/82	2	10.15	10.15	10.2	10.1	0.005	0.071	**	**	**	**
00400	PH (STANDARD UNITS)	12/02/81-03/25/82	2	4.55	4.55	4.9	4.2	0.245	0.495	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/02/81-03/25/82	2	4.422	4.422	4.9	4.2	0.278	0.527	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/02/81-03/25/82	2	37.842	37.842	63.096	12.589	1275.452	35.713	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/25/82-03/25/82	1	4.7	4.7	4.7	4.7	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/25/82-03/25/82	1	4.7	4.7	4.7	4.7	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/25/82-03/25/82	1	19.953	19.953	19.953	19.953	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/25/82-03/25/82	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/25/82-03/25/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/25/82-03/25/82	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/82-03/25/82	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/25/82-03/25/82	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/25/82-03/25/82	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/25/82-03/25/82	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	03/25/82-03/25/82	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/25/82-03/25/82	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	03/25/82-03/25/82	1	0.69	0.69	0.69	0.69	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	03/25/82-03/25/82	1	0.26	0.26	0.26	0.26	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	03/25/82-03/25/82	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/25/82-03/25/82	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/25/82-03/25/82	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/25/82-03/25/82	1	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	03/25/82-03/25/82	1	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/25/82-03/25/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/25/82-03/25/82	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/25/82-03/25/82	1	28.	28.	28.	28.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/25/82-03/25/82	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/25/82-03/25/82	1	18.	18.	18.	18.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/25/82-03/25/82	1	150.	150.	150.	150.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/25/82-03/25/82	1	110.	110.	110.	110.	0.	0.	**	**	**	**
32023	ACIDS, STRONG	03/25/82-03/25/82	1	20.	20.	20.	20.	0.	0.	**	**	**	**
32024	ACIDS, WEAK	03/25/82-03/25/82	1	150.	150.	150.	150.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	03/25/82-03/25/82	1	4.	4.	4.	4.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/25/82-03/25/82	1	10.	10.	10.	10.	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/25/82-03/25/82	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/25/82-03/25/82	1	5.9	5.9	5.9	5.9	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 time series plot

Parameter Inventory for Station: GRSM0173

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71900	MERCURY, TOTAL (UG/L AS HG)	03/25/82-03/25/82	1 ##	0.1	0.1	0.1	0.1	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: GRSM0173

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	2	0	0.00	2	0	0.00									
00400	PH	Other-Hi Lim.	9.	2	0	0.00	2	0	0.00									
		Other-Lo Lim.	6.5	2	2	1.00	2	2	1.00									
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	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									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0174

NPS Station ID: GRSM0174
LAT/LON: 35.650004/ -83.563615
Agency: 112WRD
Date Created: 03/21/92
Location: LITTLE R AB ELKMONT
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 353900083334900
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 0.60
On/Off RF1:
RF3 Index: 06010201008600.00
RF3 Mile Point: 0.00
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0174

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	10/29/91-10/29/91	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/29/91-10/29/91	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/29/91-10/29/91	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/29/91-10/29/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/29/91-10/29/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/29/91-10/29/91	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/91-10/29/91	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/91-10/29/91	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/91-10/29/91	1	0.49	0.49	0.49	0.49	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/29/91-10/29/91	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/29/91-10/29/91	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/29/91-10/29/91	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/29/91-10/29/91	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/29/91-10/29/91	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/91-10/29/91	1	2.	2.	2.	2.	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	10/29/91-10/29/91	1 ##	0.005	0.005	0.005	0.005	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: GRSM0174

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0175

NPS Station ID: GRSM0175
LAT/LON: 35.650837/ -83.308060
Agency: 131TVAC
Date Created: 01/09/82
Location: TRIBUTARY TO ENLOE CREEK 5.35
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370023
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0350 0150
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 12.50 05.35 00.13
HUC: 06010203
Depth of Water: 0
Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN
Elevation: 0
Water Body Id:
Minor Basin: UNNAMED TRIBUTARY 0.13
ECO Region:
RF1 Index: 06010203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010203003300.00
RF3 Mile Point: 0.00
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0175

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/02/81-03/25/82	2	8.05	8.05	8.1	8.	0.005	0.071	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/02/81-03/25/82	2	19.5	19.5	20.	19.	0.5	0.707	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	12/02/81-03/25/82	2	11.05	11.05	11.9	10.2	1.445	1.202	**	**	**	**
00400	PH (STANDARD UNITS)	12/02/81-03/25/82	2	4.35	4.35	4.5	4.2	0.045	0.212	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/02/81-03/25/82	2	4.325	4.325	4.5	4.2	0.046	0.215	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/02/81-03/25/82	2	47.359	47.359	63.096	31.623	495.274	22.255	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	12/02/81-03/25/82	2	4.6	4.6	4.7	4.5	0.02	0.141	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	12/02/81-03/25/82	2	4.589	4.589	4.7	4.5	0.02	0.142	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/02/81-03/25/82	2	25.788	25.788	31.623	19.953	68.096	8.252	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/02/81-03/25/82	2 ##	0.25	0.25	0.5	0.	0.125	0.354	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	12/02/81-03/25/82	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	12/02/81-12/02/81	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/02/81-03/25/82	2	9.5	9.5	12.	7.	12.5	3.536	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/82-03/25/82	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/25/82-03/25/82	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/25/82-03/25/82	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/25/82-03/25/82	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	12/02/81-03/25/82	2	1.6	1.6	1.9	1.3	0.18	0.424	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/02/81-03/25/82	2	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	12/02/81-03/25/82	2	0.755	0.755	0.82	0.69	0.008	0.092	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	12/02/81-03/25/82	2	0.295	0.295	0.35	0.24	0.006	0.078	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/02/81-03/25/82	2 ##	0.6	0.6	0.7	0.5	0.02	0.141	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/02/81-03/25/82	2 ##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/25/82-03/25/82	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/25/82-03/25/82	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	03/25/82-03/25/82	1	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/25/82-03/25/82	1	24.	24.	24.	24.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	12/02/81-03/25/82	2	583.	583.	1100.	66.	534578.	731.148	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	12/02/81-03/25/82	2	59.	59.	82.	36.	1058.	32.527	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/25/82-03/25/82	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	12/02/81-03/25/82	2 ##	6.5	6.5	8.	5.	4.5	2.121	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/02/81-03/25/82	2	565.	565.	900.	230.	224450.	473.762	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/25/82-03/25/82	1	130.	130.	130.	130.	0.	0.	**	**	**	**
32023	ACIDS, STRONG	03/25/82-03/25/82	1	20.	20.	20.	20.	0.	0.	**	**	**	**
32024	ACIDS, WEAK	03/25/82-03/25/82	1	90.	90.	90.	90.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	12/02/81-03/25/82	2	5.5	5.5	6.	5.	0.5	0.707	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/02/81-03/25/82	2 ##	12.5	12.5	20.	5.	112.5	10.607	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/02/81-12/02/81	1	17.	17.	17.	17.	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: GRSM0175

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/25/82-03/25/82	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/25/82-03/25/82	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	03/25/82-03/25/82	1 ##	0.1	0.1	0.1	0.1	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: GRSM0175

				Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			--------------n/a--------------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	2	0	0.00	2	0	0.00									
00400	PH	Other-Hi Lim.	9.	2	0	0.00	2	0	0.00									
		Other-Lo Lim.	6.5	2	2	1.00	2	2	1.00									
00403	PH, LAB	Other-Hi Lim.	9.	2	0	0.00	2	0	0.00									
		Other-Lo Lim.	6.5	2	2	1.00	2	2	1.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	2	0	0.00	2	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									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00	2	0	0.00									
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0176

NPS Station ID: GRSM0176
LAT/LON: 35.651670/ -83.713059
Agency: 112WRD
Date Created: 02/29/92
Location: MEADOW BRANCH AB TOWNSEND
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 353906083424700
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 23.40
On/Off RF1:
RF3 Index: 06010201006901.55
RF3 Mile Point: 2.39
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0176

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	10/30/91-10/30/91	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/91-10/30/91	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/91-10/30/91	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/91-10/30/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/30/91-10/30/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/30/91-10/30/91	1	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/30/91-10/30/91	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/30/91-10/30/91	1	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/30/91-10/30/91	1	0.78	0.78	0.78	0.78	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/91-10/30/91	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/91-10/30/91	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/30/91-10/30/91	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/30/91-10/30/91	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/30/91-10/30/91	1	26.	26.	26.	26.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/30/91-10/30/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	10/30/91-10/30/91	1 ##	0.005	0.005	0.005	0.005	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: GRSM0176

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0177

NPS Station ID: GRSM0177
LAT/LON: 35.654170/ -83.907782
Agency: 12ELS1
Date Created: 04/16/88
Location: LAKE IN THE SKY
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 3A2-005
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010201
Depth of Water: 19
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010201
RF1 Mile Point: 0.000
Distance from RF1: 1.90
On/Off RF1:
RF3 Index: 06010204002008.43
RF3 Mile Point: 9.17
Distance from RF3: 0.09
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0177

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/20/84-11/20/84	1	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	11/20/84-11/20/84	1	1.35	1.35	1.35	1.35	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	11/20/84-11/20/84	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/20/84-11/20/84	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00154	SULFATE (AS S) WHOLE WATER, MG/L	11/20/84-11/20/84	1	2.47	2.47	2.47	2.47	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/20/84-11/20/84	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/20/84-11/20/84	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/84-11/20/84	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	11/20/84-11/20/84	1	159.7	159.7	159.7	159.7	0.	0.	**	**	**	**
00662	PHOSPHORUS (P), WATER, TOTAL RECOVERABLE UG/L	11/20/84-11/20/84	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	11/20/84-11/20/84	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	11/20/84-11/20/84	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
00910	CALCIUM (MG/L AS CACO3)	11/20/84-11/20/84	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/20/84-11/20/84	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/20/84-11/20/84	1	0.37	0.37	0.37	0.37	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/20/84-11/20/84	1	0.72	0.72	0.72	0.72	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/20/84-11/20/84	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/20/84-11/20/84	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/20/84-11/20/84	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/20/84-11/20/84	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	11/20/84-11/20/84	1	143.	143.	143.	143.	0.	0.	**	**	**	**
70151	SURFACE AREA OF LAKE OR RESERVOIR SQ KM	11/20/84-11/20/84	1	0.207	0.207	0.207	0.207	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/20/84-11/20/84	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71885	IRON (UG/L AS FE)	11/20/84-11/20/84	1	81.	81.	81.	81.	0.	0.	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	11/20/84-11/20/84	1	2009.94	2009.94	2009.94	2009.94	0.	0.	**	**	**	**
82047	DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	11/20/84-11/20/84	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/20/84-11/20/84	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 time series plot

EPA Water Quality Criteria Analysis for Station: GRSM0177

				Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			--------------n/a--------------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00154	SULFATE (AS S) WHOLE WATER	Drinking Water	400.	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: GRSM0177

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
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									
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	1	1	1.00	1	1	1.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0178

NPS Station ID: GRSM0178
LAT/LON: 35.654727/ -83.580559
Agency: 112WRD
Date Created: / /
Location: LITTLE R AT ELKMONT TENN
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03497180
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010201
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010201032
RF1 Mile Point: 21.570
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010107001601.77
RF3 Mile Point: 2.30
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0178

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	09/24/68-09/24/68	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	09/24/68-09/24/68	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/24/68-09/24/68	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/24/68-09/24/68	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/24/68-09/24/68	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/24/68-09/24/68	1	0.126	0.126	0.126	0.126	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/24/68-09/24/68	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/24/68-09/24/68	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/24/68-09/24/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/24/68-09/24/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/24/68-09/24/68	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/24/68-09/24/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/24/68-09/24/68	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/24/68-09/24/68	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/24/68-09/24/68	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/24/68-09/24/68	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/24/68-09/24/68	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/24/68-09/24/68	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/24/68-09/24/68	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/24/68-09/24/68	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/24/68-09/24/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/24/68-09/24/68	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/24/68-09/24/68	1	10.	10.	10.	10.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/24/68-09/24/68	1	21.	21.	21.	21.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/24/68-09/24/68	1	16.	16.	16.	16.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/24/68-09/24/68	1	1.36	1.36	1.36	1.36	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/24/68-09/24/68	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/24/68-09/24/68	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0178

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						

& - 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: GRSM0179

NPS Station ID: GRSM0179
LAT/LON: 35.655281/ -83.710004
Agency: 112WRD
Date Created: 02/29/92
Location: WEST PRONG AB TOWNSEND
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 353919083423600
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 8.30
On/Off RF1:
RF3 Index: 06010201006900.20
RF3 Mile Point: 0.20
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0179

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	10/30/91-10/30/91	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/91-10/30/91	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/91-10/30/91	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/91-10/30/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/30/91-10/30/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/30/91-10/30/91	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/30/91-10/30/91	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/30/91-10/30/91	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/30/91-10/30/91	1	0.72	0.72	0.72	0.72	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/91-10/30/91	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/91-10/30/91	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/30/91-10/30/91	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/30/91-10/30/91	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/30/91-10/30/91	1	18.	18.	18.	18.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/30/91-10/30/91	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	10/30/91-10/30/91	1 ##	0.005	0.005	0.005	0.005	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: GRSM0179

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0180

NPS Station ID: GRSM0180
LAT/LON: 35.657226/ -83.708615
Agency: 112WRD
Date Created: 02/29/92
Location: MIDDLE PRONG AB TOWNSEND
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 353926083423100
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 5.30
On/Off RF1:
RF3 Index: 06010201006900.20
RF3 Mile Point: 0.20
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	10/30/91-10/30/91	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/91-10/30/91	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/91-10/30/91	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/91-10/30/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/30/91-10/30/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/30/91-10/30/91	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/30/91-10/30/91	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/30/91-10/30/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/30/91-10/30/91	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/91-10/30/91	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/91-10/30/91	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/30/91-10/30/91	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/30/91-10/30/91	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/30/91-10/30/91	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/30/91-10/30/91	1	2.	2.	2.	2.	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	10/30/91-10/30/91	1 ##	0.005	0.005	0.005	0.005	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: GRSM0180

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0181

NPS Station ID: GRSM0181 | LAT/LON: 35.660281/ -83.708338 | Agency: 21TNWQ | Date Created: 08/14/93
Location: NEAR LRM 35.6/THE WYE/SMOKEY MT PARK/QUAD 157NW | FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): LITTLE 35.6
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 06010201 | Depth of Water: 1 | Aquifer:
Major Basin: TENNESSEE RIVER BASIN | Elevation: 0 | Water Body Id:
Minor Basin: LITTLE RIVER BASIN | ECO Region:
RF1 Index: 06010201 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 06010201002800.00 | RF3 Mile Point: 2.05 | Distance from RF3: 0.10 | On/Off RF3:
Description:
UPSTREAM CONTOL STATION ON THE LITTLE RIVER NEAR RIVER MILE 35.6. THIS IS AN EXCEPTIONAL NATIONAL RESOURCE FACING INCREASED DEVELOPMENT IN THE NEAR FUTURE. SAMPLES TAKEN IMMEDIATELY BELOW THE CONFLUENCE OF LAUREL CREEK AND THE LITTLE RIVER JUST INSIDE THE GREAT SMOKEY

Parameter Inventory for Station: GRSM0181

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: GRSM0182

NPS Station ID: GRSM0182
LAT/LON: 35.664449/ -83.711393
Agency: 112WRD
Date Created: / /
Location: LITTLE R. AB TOWNSEND
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03497300
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010201
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010201
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010201009401.68
RF3 Mile Point: 7.37
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	139	12.	12.068	23.5	0.	41.499	6.442	4.	6.5	18.	20.
00060	FLOW, STREAM, MEAN DAILY CFS	08/10/63-10/08/70	21	119.	363.286	3910.	32.	684512.714	827.353	36.2	51.	319.	517.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/25/65-11/22/94	127	160.	445.268	7150.	30.	1180910.61	1086.697	57.6	103.	301.	535.8
00065	STAGE, STREAM (FEET)	10/28/93-08/24/94	6	2.415	2.298	3.	1.23	0.354	0.595	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/17/85-11/22/94	37	0.6	1.041	11.	0.2	3.292	1.815	0.2	0.4	1.05	1.52
00080	COLOR (PLATINUM-COBALT UNITS)	08/10/63-09/30/68	20	4.	4.25	8.	1.	4.197	2.049	2.	3.	5.	8.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/10/63-11/22/94	122	18.	17.754	61.	2.	34.005	5.831	12.	15.	20.	22.7
00300	OXYGEN, DISSOLVED MG/L	10/12/67-11/22/94	48	11.	11.004	15.	8.6	2.889	1.7	8.79	9.8	12.	13.8
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	01/17/68-03/18/68	2	102.5	102.5	108.	97.	60.5	7.778	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	10/12/67-07/23/68	10	1.15	1.3	2.4	0.5	0.62	0.787	0.51	0.6	2.125	2.38
00400	PH (STANDARD UNITS)	08/10/63-11/22/94	62	6.9	6.954	8.16	6.2	0.162	0.403	6.524	6.7	7.1	7.609
00400	CONVERTED PH (STANDARD UNITS)	08/10/63-11/22/94	62	6.9	6.807	8.16	6.2	0.184	0.429	6.524	6.7	7.1	7.609
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/10/63-11/22/94	62	0.126	0.156	0.631	0.007	0.016	0.127	0.025	0.079	0.2	0.3
00403	PH, LAB, STANDARD UNITS SU	10/17/85-11/22/94	38	7.35	7.371	8.2	6.5	0.24	0.49	6.69	7.	7.825	8.02
00403	CONVERTED PH, LAB, STANDARD UNITS	10/17/85-11/22/94	38	7.347	7.13	8.2	6.5	0.3	0.547	6.69	7.	7.825	8.02
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/17/85-11/22/94	38	0.045	0.074	0.316	0.006	0.006	0.078	0.01	0.015	0.1	0.205
00405	CARBON DIOXIDE (MG/L AS CO2)	04/05/66-10/12/67	2	2.65	2.65	2.9	2.4	0.125	0.354	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/10/63-06/29/94	29	6.	5.897	12.	0.	10.025	3.166	0.	4.	8.	10.
00440	BICARBONATE ION (MG/L AS HCO3)	08/10/63-09/30/68	20	8.5	7.9	12.	3.	7.042	2.654	4.	6.	10.	11.9
00445	CARBONATE ION (MG/L AS CO3)	08/10/63-09/30/68	21	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/27/92-11/22/94	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	12/11/91-11/22/94	16	5.	5.813	10.	4.	2.563	1.601	4.	5.	7.	7.9
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/12/67-10/25/68	3	16.	15.667	16.	15.	0.333	0.577	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/12/67-10/25/68	3	2.	1.833	3.	0.5	1.583	1.258	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	12/10/85-02/21/86	2	0.325	0.325	0.37	0.28	0.004	0.064	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/17/85-11/22/94	37	0.01	0.015	0.05	0.005	0.	0.012	0.005	0.005	0.02	0.032
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/17/85-12/07/92	27	0.02	0.017	0.04	0.005	0.	0.012	0.005	0.005	0.03	0.032
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	10/17/85-11/22/94	37 ##	0.005	0.005	0.01	0.005	0.	0.001	0.005	0.005	0.005	0.006
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/15/90-12/07/92	12 ##	0.005	0.005	0.01	0.005	0.	0.001	0.005	0.005	0.005	0.009
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	04/05/66-10/30/91	3	0.005	0.032	0.09	0.	0.003	0.051	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	08/20/91-08/20/91	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/17/85-11/22/94	37 ##	0.1	0.324	4.8	0.1	0.592	0.769	0.1	0.1	0.3	0.42
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/15/90-12/07/92	12	0.155	0.147	0.3	0.025	0.007	0.084	0.025	0.068	0.2	0.276
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/17/85-11/22/94	37	0.2	0.169	0.4	0.025	0.008	0.087	0.025	0.1	0.2	0.3
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	11/20/67-09/30/68	10	0.04	0.043	0.07	0.01	0.001	0.023	0.011	0.02	0.07	0.07
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/17/85-11/22/94	37	0.01	0.013	0.04	0.005	0.	0.009	0.005	0.005	0.02	0.022
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/17/85-11/22/94	37 ##	0.005	0.01	0.03	0.005	0.	0.008	0.005	0.005	0.01	0.022
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/17/85-11/22/94	38 ##	0.005	0.007	0.02	0.005	0.	0.004	0.005	0.005	0.005	0.01

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Parameter Inventory for Station: GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/10/63-12/10/85	22	5.	5.5	8.	3.	2.833	1.683	4.	4.	7.25	8.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/10/63-12/10/85	22	0.	0.091	2.	0.	0.182	0.426	0.	0.	0.	0.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/10/63-11/22/94	58	1.45	1.56	3.9	1.	0.229	0.479	1.09	1.2	1.8	2.11
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/10/63-11/22/94	58	0.4	0.391	0.8	0.	0.027	0.166	0.2	0.3	0.5	0.6
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/10/63-11/22/94	58	1.	0.972	1.4	0.4	0.032	0.179	0.79	0.9	1.1	1.2
00931	SODIUM ADSORPTION RATIO	08/10/63-12/10/85	16	0.2	0.206	0.3	0.2	0.001	0.025	0.2	0.2	0.2	0.23
00932	SODIUM, PERCENT	08/10/63-12/10/85	16	28.	28.063	37.	20.	32.596	5.709	20.7	22.25	33.	36.3
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/10/63-11/22/94	58	0.5	0.509	1.	0.	0.027	0.166	0.3	0.4	0.6	0.7
00940	CHLORIDE,TOTAL IN WATER MG/L	08/10/63-11/22/94	58	0.55	0.598	2.	0.2	0.112	0.335	0.3	0.4	0.6	1.
00945	SULFATE, TOTAL (MG/L AS SO4)	08/10/63-11/22/94	58	2.	2.031	4.	0.8	0.603	0.777	1.	2.	2.	3.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/10/63-11/22/94	58 ##	0.05	0.05	0.2	0.	0.003	0.051	0.	0.	0.05	0.1
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/10/63-11/22/94	58	5.6	5.5	7.2	0.	1.621	1.273	4.58	5.3	6.2	6.71
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/08/70-02/05/91	12 ##	0.5	1.292	10.	0.5	7.521	2.742	0.5	0.5	0.5	7.15
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/17/85-11/22/94	24	8.5	9.917	26.	5.	22.949	4.791	6.	7.	10.75	18.
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/17/85-02/05/91	11 ##	0.25	0.345	1.3	0.25	0.1	0.317	0.25	0.25	0.25	1.09
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/30/68-02/05/91	13 ##	0.5	0.923	6.	0.	2.369	1.539	0.2	0.5	0.5	4.
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/17/85-02/05/91	11 ##	0.5	0.682	2.5	0.5	0.364	0.603	0.5	0.5	0.5	2.1
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	10/08/70-10/08/70	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/30/68-09/30/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	09/30/68-11/22/94	26 ##	1.5	2.731	35.	0.	43.405	6.588	1.5	1.5	1.5	1.5
01040	COPPER, DISSOLVED (UG/L AS CU)	09/30/68-02/05/91	12	1.5	2.5	12.	0.	10.773	3.282	0.15	0.625	2.75	9.9
01046	IRON, DISSOLVED (UG/L AS FE)	08/10/63-11/22/94	43	12.	19.279	100.	0.	428.968	20.712	4.	7.	20.	50.
01049	LEAD, DISSOLVED (UG/L AS PB)	09/30/68-02/05/91	13 ##	2.5	2.692	10.	0.5	6.272	2.504	0.7	1.	2.75	8.
01055	MANGANESE, TOTAL (UG/L AS MN)	11/03/65-10/12/67	4	15.	12.5	20.	0.	91.667	9.574	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/10/63-11/22/94	42	1.	5.357	30.	0.	92.174	9.601	0.	0.5	3.75	30.
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/17/85-11/22/94	24 ##	5.	5.417	10.	5.	1.993	1.412	5.	5.	5.	7.5
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/30/68-11/22/94	25 ##	0.5	1.22	6.	0.	2.46	1.568	0.5	0.5	1.	4.4
01075	SILVER, DISSOLVED (UG/L AS AG)	09/30/68-11/22/94	25 ##	0.5	0.48	0.5	0.	0.01	0.1	0.5	0.5	0.5	0.5
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/30/68-11/22/94	25	9.	9.12	12.	0.	5.943	2.438	7.6	8.	10.5	12.
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/17/85-11/22/94	24 ##	3.	3.	3.	3.	0.	0.	3.	3.	3.	3.
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/30/68-02/05/91	13	6.	7.654	17.	0.	26.058	5.105	0.6	4.	11.5	15.8
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/17/85-11/22/94	24	20.	18.333	40.	5.	105.797	10.286	5.	10.	20.	35.
01130	LITHIUM, DISSOLVED (UG/L AS LI)	09/30/68-11/22/94	25 ##	2.	2.08	6.	0.	0.827	0.909	2.	2.	2.	2.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/17/85-11/22/94	24 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01515	ALPHA, DISSOLVED GROSS, AS URANIUM-NATURAL, PC/L	10/12/67-10/25/68	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01516	ALPHA, SUSPEND GROSS, AS URANIUM NATURAL, PC/L	10/12/67-10/25/68	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	10/12/67-02/24/93	15	0.9	0.947	2.	0.3	0.2	0.447	0.3	0.6	1.2	1.64
03516	BETA, SUSPENDED GROSS, AS CS-137, PC/L	10/12/67-02/24/93	15 ##	0.3	0.48	1.1	0.2	0.097	0.312	0.2	0.3	0.8	1.04
04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	08/25/92-02/24/93	2 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
04127	ALPHA, SUSPENDED, DRY WEIGHT,SED (AS TH-230) PCI/L	08/25/92-02/24/93	2 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
09510	RADIUM 226, DISSOLVED, PLANCHET COUNT	06/24/68-06/24/68	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
09511	RADIUM 226, DISSOLVED, RADON METHOD	10/12/67-08/24/94	16	0.04	0.052	0.11	0.01	0.001	0.03	0.017	0.03	0.08	0.096
22703	URANIUM, NATURAL, DISSOLVED	10/12/67-08/24/94	14 ##	0.008	0.049	0.205	0.005	0.007	0.083	0.005	0.005	0.065	0.203
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	10/12/67-09/30/68	12	165.	301.6	816.	0.2	98995.484	314.635	14.54	94.	666.25	816.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	10/12/67-09/30/68	12	2.217	2.084	2.912	-0.699	0.925	0.962	0.015	1.973	2.783	2.912
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			121.425								
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	10/17/85-11/22/94	39	7.	42.91	1040.	0.5	27589.327	166.1	1.	2.	20.	72.
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	10/17/85-11/22/94	39	0.845	0.877	3.017	-0.301	0.488	0.699	0.	0.301	1.301	1.857
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			7.531								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/17/85-11/22/94	40	32.	77.4	500.	0.	11714.913	108.235	2.	6.25	97.25	241.9
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/17/85-11/22/94	40	1.497	1.391	2.699	0.	0.607	0.779	0.301	0.795	1.988	2.383
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			24.581								
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/29/86-11/22/94	31	5.	4.968	12.	3.	3.632	1.906	3.	4.	6.	7.6
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/10/63-11/22/94	57	14.	14.456	25.	2.	23.967	4.896	8.	12.	18.	21.2
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/05/66-12/10/85	15	14.	14.467	20.	10.	9.41	3.067	10.	13.	17.	19.4
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/10/63-09/30/68	16	5.18	8.236	24.1	1.74	48.815	6.987	1.908	2.805	12.85	20.11
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/10/63-09/30/68	14	0.02	0.044	0.3	0.02	0.005	0.074	0.02	0.02	0.03	0.165
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	03/25/65-08/24/94	34	66.	69.235	100.	1.	432.185	20.789	48.	56.75	86.25	100.
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	03/25/65-03/25/65	1	86.	86.	86.	86.	0.	0.	**	**	**	**
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	03/25/65-03/25/65	1	93.	93.	93.	93.	0.	0.	**	**	**	**
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	03/25/65-03/25/65	1	100.	100.	100.	100.	0.	0.	**	**	**	**
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	03/25/65-03/25/65	1	29.	29.	29.	29.	0.	0.	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	03/25/65-03/25/65	1	39.	39.	39.	39.	0.	0.	**	**	**	**

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Parameter Inventory for Station: GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	03/25/65-03/25/65	1	47.	47.	47.	47.	0.	0.	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	03/25/65-03/25/65	1	62.	62.	62.	62.	0.	0.	**	**	**	**
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	03/25/65-03/25/65	1	80.	80.	80.	80.	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/15/90-12/07/92	12 ##	0.005	0.008	0.02	0.005	0.	0.006	0.005	0.005	0.005	0.02
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	12/10/85-02/21/86	2	0.03	0.03	0.05	0.01	0.001	0.028	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/10/63-09/30/68	20	0.4	0.375	1.5	0.	0.146	0.382	0.	0.025	0.675	0.79
71870	BROMIDE (MG/L AS BR)	10/30/91-10/30/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	10/17/85-02/21/86	2	0.075	0.075	0.12	0.03	0.004	0.064	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	10/17/85-02/05/91	11 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
71900	MERCURY, TOTAL (UG/L AS HG)	10/08/70-10/08/70	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	10/17/85-10/17/85	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	02/27/89-02/24/93	9	0.25	0.246	0.4	0.1	0.008	0.09	0.1	0.18	0.3	0.4
75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	02/27/89-02/24/93	9 ##	0.3	0.307	0.7	0.1	0.027	0.166	0.1	0.23	0.3	0.7
75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	02/27/89-02/24/93	9	0.4	0.439	0.5	0.38	0.003	0.052	0.38	0.4	0.5	0.5
75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	02/27/89-02/24/93	9	0.5	0.491	0.7	0.4	0.009	0.093	0.4	0.4	0.51	0.7
75990	URANIUM,NATURAL,1 SIGMA PRC EST,DISS,WATER UG/L	02/21/90-08/24/94	9 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
76001	RADIUM 226,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	02/21/90-08/24/94	9	0.01	0.013	0.02	0.01	0.	0.005	0.01	0.01	0.02	0.02
76004	ALPHA GROSS,SUSP,1 SIGMA PRC EST AS TH230,WTR PC/L	02/27/89-02/24/93	9	0.2	0.243	0.6	0.1	0.025	0.159	0.1	0.1	0.3	0.6
76005	BETA GROSS,SUSP,1 SIGMA PRC EST AS SR90/Y90 PC/L	02/27/89-02/24/93	9	0.5	0.508	0.7	0.4	0.006	0.079	0.4	0.485	0.5	0.7
80020	URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD	10/25/68-02/25/87	3 ##	0.01	0.008	0.01	0.005	0.	0.003	**	**	**	**
80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	10/12/67-02/24/93	15 ##	0.3	0.29	0.7	0.2	0.015	0.123	0.2	0.2	0.3	0.46
80040	ALPHA,SUSPENDED GROSS, AS URANIUM-NATURAL, UG/L	10/12/67-02/24/93	15 ##	0.3	0.34	1.	0.2	0.048	0.22	0.2	0.2	0.3	0.82
80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	10/12/67-02/24/93	15	0.9	0.86	1.7	0.3	0.158	0.398	0.3	0.6	1.1	1.46
80060	BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L	10/12/67-02/24/93	15 ##	0.3	0.453	1.1	0.2	0.076	0.275	0.2	0.3	0.7	0.92
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/25/65-08/24/94	67	3.	40.466	735.	0.3	17016.672	130.448	0.5	1.	5.	76.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	03/25/65-09/16/82	33	1.6	989.675	11100.	0.21	6485073.384	2546.581	0.418	0.99	7.95	6022.
82073	STARTING TIME (BASED ON A 24 HOUR CLOCK)	12/30/93-12/30/93	1	0.	0.	0.	0.	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRSM0182

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	37	0	0.00	21	0	0.00	16	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	48	0	0.00	25	0	0.00	23	0	0.00						
00400	PH	Other-Hi Lim.	9.	62	0	0.00	37	0	0.00	25	0	0.00						
		Other-Lo Lim.	6.5	62	6	0.10	37	5	0.14	25	1	0.04						
00403	PH, LAB	Other-Hi Lim.	9.	38	0	0.00	22	0	0.00	16	0	0.00						
		Other-Lo Lim.	6.5	38	1	0.03	22	0	0.00	16	1	0.06						
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	37	0	0.00	21	0	0.00	16	0	0.00						
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	12	0	0.00	8	0	0.00	4	0	0.00						
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	3	0	0.00	2	0	0.00	1	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	12	0	0.00	8	0	0.00	4	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	37	0	0.00	21	0	0.00	16	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	58	0	0.00	34	0	0.00	24	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	58	0	0.00	34	0	0.00	24	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	12	0	0.00	9	0	0.00	3	0	0.00						
		Drinking Water	50.	12	0	0.00	9	0	0.00	3	0	0.00						
01005	BARIUM, DISSOLVED	Drinking Water	2000.	24	0	0.00	15	0	0.00	9	0	0.00						
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	11	0	0.00	8	0	0.00	3	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	13	1	0.08	9	1	0.11	4	0	0.00						
		Drinking Water	5.	13	1	0.08	9	1	0.11	4	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	11	0	0.00	8	0	0.00	3	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.	1	0	0.00				1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	12	0	0.00	8	0	0.00	4	0	0.00						
		Drinking Water	1300.	12	0	0.00	8	0	0.00	4	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	13	0	0.00	9	0	0.00	4	0	0.00						
		Drinking Water	5.	12 &	1	0.08	8	0	0.00	4	1	0.25						

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

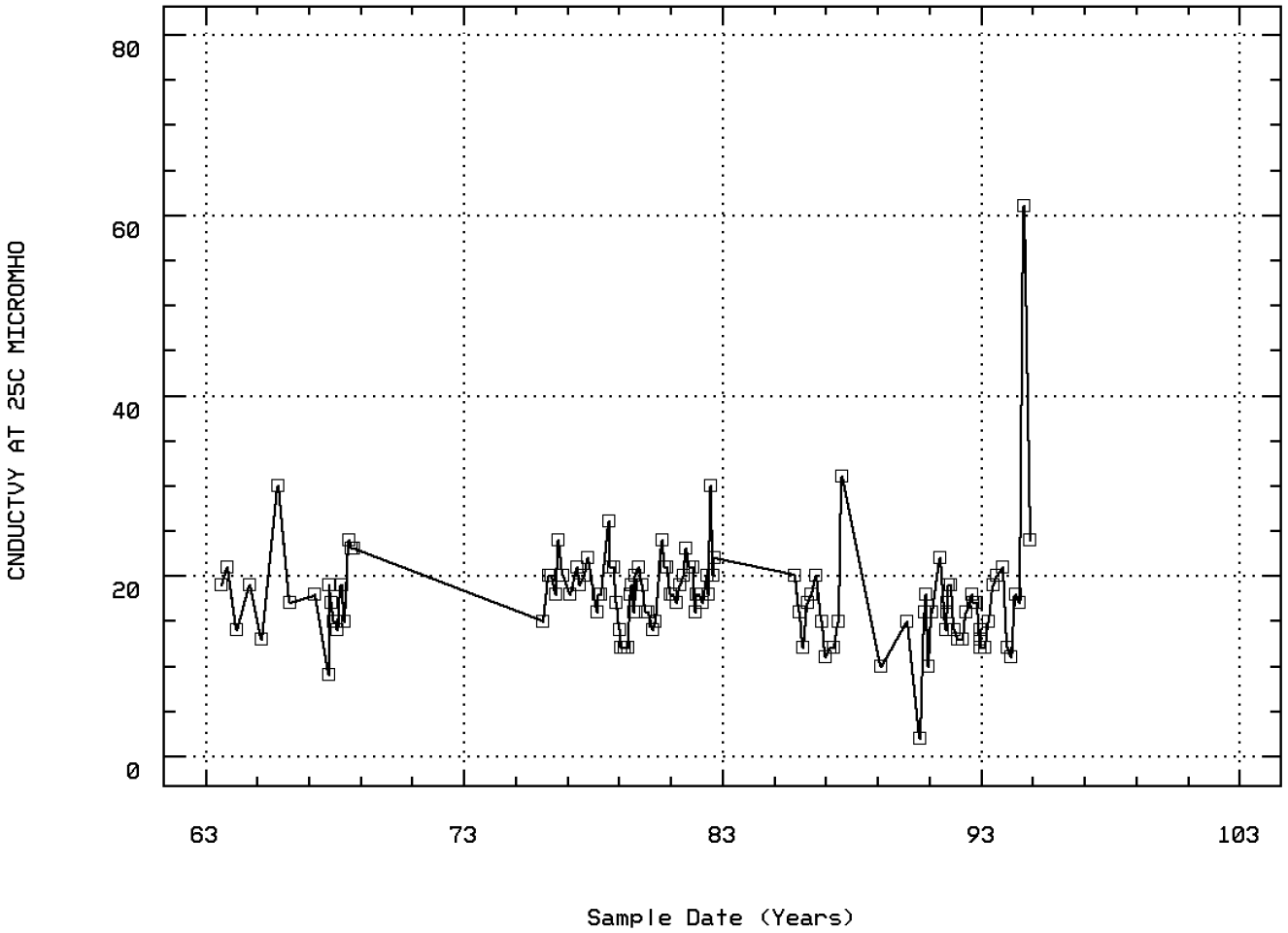
EPA Water Quality Criteria Analysis for Station: GRSM0182

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	25	0	0.00	15	0	0.00	10	0	0.00						
		Drinking Water	100.	25	0	0.00	15	0	0.00	10	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	25	0	0.00	15	0	0.00	10	0	0.00						
		Drinking Water	50.	25	0	0.00	15	0	0.00	10	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	13	0	0.00	9	0	0.00	4	0	0.00						
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	24	0	0.00	15	0	0.00	9	0	0.00						
		Drinking Water	50.	24	0	0.00	15	0	0.00	9	0	0.00						
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	14	0	0.00	7	0	0.00	7	0	0.00						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	12	0	0.00	7	0	0.00	5	0	0.00						
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	39	1	0.03	21	0	0.00	18	1	0.06						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	20	0	0.00	12	0	0.00	8	0	0.00						
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	11	0	0.00	8	0	0.00	3	0	0.00						
		Drinking Water	2.	11	0	0.00	8	0	0.00	3	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									
80020	URANIUM, DISS. BY EXTRACTION FLUOROMETRI	Drinking Water	20.	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: GRSM0182 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



LITTLE R. AB TOWNSEND

Annual Analysis for 1963 - Station GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	1	20.	20.	20.	20.	0.	0.	**	**	**	**

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

Annual Analysis for 1965 - Station GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	3	8.3	7.267	8.5	5.	3.863	1.966	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/25/65-11/22/94	6	4695.	4631.667	7150.	1770.	5229296.667	2286.766	**	**	**	**

** - Less 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 1966 - Station GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	1	7.2	7.2	7.2	7.2	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 1967 - Station GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	5	12.	10.4	15.	4.	17.3	4.159	**	**	**	**

** - Less 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 1968 - Station GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	8	12.5	12.875	23.	2.	72.696	8.526	**	**	**	**

** - Less 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 GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/25/65-11/22/94	1	141.	141.	141.	141.	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 GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	6	14.5	12.25	18.	1.5	44.775	6.691	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/25/65-11/22/94	7	117.	152.714	256.	54.	6175.905	78.587	**	**	**	**

** - Less 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 GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	2	9.25	9.25	9.5	9.	0.125	0.354	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/25/65-11/22/94	6	275.	399.667	1170.	100.	161654.667	402.063	**	**	**	**

** - Less 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 GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	8	13.5	13.125	23.5	2.5	57.411	7.577	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/25/65-11/22/94	8	136.	140.875	267.	41.	6663.268	81.629	**	**	**	**

** - Less 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 GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	9	16.5	12.667	19.	0.	40.125	6.334	0.	8.	17.	19.
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/25/65-11/22/94	9	214.	220.444	412.	102.	8847.778	94.063	102.	141.	270.5	412.

** - Less 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 GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	9	7.	12.056	23.5	4.5	55.215	7.431	4.5	5.75	19.	23.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/25/65-11/22/94	9	124.	192.667	444.	43.	23906.	154.616	43.	57.	336.	444.

** - Less 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 GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	8	14.55	12.263	20.5	0.	54.523	7.384	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/25/65-11/22/94	8	186.	247.125	579.	129.	24491.554	156.498	**	**	**	**

** - Less 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 GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	8	18.	14.75	20.5	5.	36.929	6.077	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/25/65-11/22/94	8	149.5	586.875	3200.	116.	1130638.411	1063.315	**	**	**	**

** - Less 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 GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	3	7.	8.5	14.	4.5	24.25	4.924	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/25/65-11/22/94	3	55.	164.333	408.	30.	44686.333	211.391	**	**	**	**

** - Less 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 GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	7	16.	13.286	20.	4.5	41.405	6.435	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/25/65-11/22/94	7	96.	178.286	525.	42.	28959.905	170.176	**	**	**	**

** - Less 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 GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	9	15.	12.778	23.	0.5	65.132	8.07	0.5	5.25	20.5	23.
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/25/65-11/22/94	9	108.	140.556	336.	56.	8788.278	93.746	56.	68.	197.5	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 1986 - Station GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	6	9.75	12.833	21.	7.5	36.067	6.006	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/25/65-11/22/94	6	142.	192.667	491.	45.	25128.267	158.519	**	**	**	**

** - Less 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 GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	4	15.5	15.375	22.	8.5	38.563	6.21	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/25/65-11/22/94	4	238.	245.75	420.	87.	21207.583	145.628	**	**	**	**

** - Less 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 GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	2	11.	11.	18.	4.	98.	9.899	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/25/65-11/22/94	2	334.5	334.5	509.	160.	60900.5	246.78	**	**	**	**

** - Less 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 GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	5	8.	10.9	20.5	4.	41.55	6.446	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/25/65-11/22/94	5	194.	300.8	658.	160.	43727.7	209.112	**	**	**	**

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

Annual Analysis for 1991 - Station GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	9	17.5	15.111	19.5	6.	26.861	5.183	6.	10.	19.25	19.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/25/65-11/22/94	9	148.	208.	714.	54.	39771.75	199.429	54.	101.	226.	714.

** - Less 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 GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	14	6.4	8.779	19.5	3.8	33.41	5.78	3.8	3.875	12.825	19.25
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/25/65-11/22/94	9	149.	158.889	290.	68.	4948.611	70.346	68.	109.5	204.5	290.

** - Less 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 GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	6	9.25	10.417	20.	2.	59.442	7.71	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/25/65-11/22/94	6	187.	252.667	670.	36.	57776.667	240.368	**	**	**	**

** - Less 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 1994 - Station GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	5	14.5	12.8	17.	5.	24.575	4.957	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/25/65-11/22/94	5	340.	299.6	440.	72.	20672.8	143.78	**	**	**	**

** - Less 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: 10/01 to 3/31 - Station GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	74	7.	7.507	18.	0.	18.291	4.277	2.75	4.	10.	14.
00060	FLOW, STREAM, MEAN DAILY CFS	08/10/63-10/08/70	13	258.	506.769	3910.	32.	1074216.692	1036.444	32.8	72.5	423.	2555.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/25/65-11/22/94	66	203.	685.045	7150.	30.	2144567.767	1464.434	52.2	106.75	422.75	1992.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/17/85-11/22/94	21	0.5	0.667	4.	0.2	0.649	0.806	0.2	0.25	0.7	1.14
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/10/63-11/22/94	65	16.	16.185	30.	9.	14.965	3.869	12.	13.	18.5	21.
00300p	OXYGEN, DISSOLVED MG/L	10/12/67-11/22/94	25	12.	12.064	15.	9.2	2.207	1.485	9.96	11.1	12.95	14.4
00400p	PH (STANDARD UNITS)	08/10/63-11/22/94	37	7.	6.996	8.16	6.2	0.244	0.494	6.4	6.6	7.2	7.73
00400p	CONVERTED PH (STANDARD UNITS)	08/10/63-11/22/94	37	7.	6.782	8.16	6.2	0.291	0.54	6.4	6.6	7.2	7.73
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/10/63-11/22/94	37	0.1	0.165	0.631	0.007	0.024	0.155	0.019	0.063	0.251	0.398
00403	PH, LAB, STANDARD UNITS SU	10/17/85-11/22/94	22	7.35	7.382	8.2	6.6	0.218	0.467	6.69	7.	7.725	8.14
00403	CONVERTED PH, LAB, STANDARD UNITS	10/17/85-11/22/94	22	7.347	7.168	8.2	6.6	0.266	0.515	6.69	7.	7.725	8.14
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/17/85-11/22/94	22	0.045	0.068	0.251	0.006	0.005	0.069	0.007	0.019	0.1	0.214
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/10/63-06/29/94	14	5.5	5.571	10.	0.	6.571	2.563	1.5	3.75	7.25	9.
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/17/85-11/22/94	21 ##	0.008	0.013	0.04	0.005	0.	0.011	0.005	0.005	0.02	0.038
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/17/85-12/07/92	16	0.015	0.017	0.04	0.005	0.	0.012	0.005	0.005	0.03	0.033
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	10/17/85-11/22/94	21 ##	0.005	0.005	0.01	0.005	0.	0.002	0.005	0.005	0.005	0.009
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/17/85-11/22/94	21 ##	0.1	0.414	4.8	0.1	1.026	1.013	0.1	0.1	0.3	0.48
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/17/85-11/22/94	21	0.2	0.163	0.4	0.025	0.01	0.098	0.025	0.05	0.2	0.28
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/17/85-11/22/94	21 ##	0.005	0.012	0.04	0.005	0.	0.01	0.005	0.005	0.02	0.028
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/17/85-11/22/94	21 ##	0.005	0.01	0.03	0.005	0.	0.007	0.005	0.005	0.015	0.02
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/17/85-11/22/94	22 ##	0.005	0.006	0.02	0.005	0.	0.004	0.005	0.005	0.005	0.01
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/10/63-12/10/85	14	5.	5.071	8.	3.	1.918	1.385	3.5	4.	6.	7.5
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/10/63-12/10/85	14	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/10/63-11/22/94	34	1.35	1.471	2.4	1.	0.132	0.364	1.05	1.2	1.725	2.05
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/10/63-11/22/94	34	0.4	0.353	0.7	0.	0.029	0.171	0.05	0.3	0.5	0.6
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/10/63-11/22/94	34	0.9	0.95	1.4	0.4	0.041	0.202	0.75	0.8	1.	1.3
00931	SODIUM ADSORPTION RATIO	08/10/63-12/10/85	9	0.2	0.211	0.3	0.2	0.001	0.033	0.2	0.2	0.2	0.3
00932	SODIUM, PERCENT	08/10/63-12/10/85	9	27.	29.	37.	22.	34.5	5.874	22.	23.	35.	37.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/10/63-11/22/94	34	0.5	0.518	1.	0.	0.035	0.187	0.3	0.4	0.625	0.75
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/10/63-11/22/94	34	0.6	0.615	2.	0.3	0.091	0.302	0.35	0.5	0.6	1.
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/10/63-11/22/94	34	2.	1.965	4.	0.8	0.527	0.726	1.	1.75	2.	3.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	08/10/63-11/22/94	34	0.05	0.05	0.2	0.	0.003	0.051	0.	0.	0.053	0.1
00955p	SILICA, DISSOLVED (MG/L AS SI02)	08/10/63-11/22/94	34	5.5	5.341	7.2	0.	2.411	1.553	4.05	5.2	5.925	6.9
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/08/70-02/05/91	9 ##	0.5	1.556	10.	0.5	10.028	3.167	0.5	0.5	0.5	10.
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/17/85-11/22/94	15	9.	10.2	19.	6.	14.029	3.745	6.6	7.	12.	17.8
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/30/68-02/05/91	9 ##	0.5	1.167	6.	0.5	3.313	1.82	0.5	0.5	0.75	6.
01035p	COBALT, DISSOLVED (UG/L AS CO)	09/30/68-11/22/94	16 ##	1.5	3.594	35.	1.5	70.141	8.375	1.5	1.5	1.5	11.55
01046p	IRON, DISSOLVED (UG/L AS FE)	08/10/63-11/22/94	26	11.	21.615	100.	0.	585.446	24.196	2.8	6.75	23.75	58.7
01049	LEAD, DISSOLVED (UG/L AS PB)	09/30/68-02/05/91	9 ##	2.5	2.111	5.	0.5	1.986	1.409	0.5	1.	2.75	5.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	08/10/63-11/22/94	24	1.	5.583	30.	0.	96.362	9.816	0.25	0.5	5.25	30.
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/17/85-11/22/94	15 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01065p	NICKEL, DISSOLVED (UG/L AS NI)	09/30/68-11/22/94	15 ##	0.5	1.467	6.	0.5	3.231	1.797	0.5	0.5	2.	5.4
01075p	SILVER, DISSOLVED (UG/L AS AG)	09/30/68-11/22/94	15 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01080p	STRONTIUM, DISSOLVED (UG/L AS SR)	09/30/68-11/22/94	15	9.	9.333	12.	7.	2.667	1.633	7.6	8.	10.	12.
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/17/85-11/22/94	15 ##	3.	3.	3.	3.	0.	0.	3.	3.	3.	3.
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/30/68-02/05/91	9	5.	7.722	17.	1.5	25.694	5.069	1.5	4.	11.5	17.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/17/85-11/22/94	15	20.	19.333	40.	5.	103.095	10.154	5.	10.	30.	34.
01130p	LITHIUM, DISSOLVED (UG/L AS LI)	09/30/68-11/22/94	15 ##	2.	2.267	6.	2.	1.067	1.033	2.	2.	2.	3.6
01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/17/85-11/22/94	15 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
03515p	BETA, DISSOLVED GROSS, AS CS-137, PC/L	10/12/67-02/24/93	9	0.7	0.756	1.3	0.3	0.125	0.354	0.3	0.45	1.05	1.3
03516p	BETA, SUSPENDED GROSS, AS CS-137, PC/L	10/12/67-02/24/93	9 ##	0.3	0.389	0.9	0.2	0.049	0.22	0.2	0.3	0.45	0.9
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	10/17/85-11/22/94	21	4.	8.024	73.	0.5	242.387	15.569	0.5	2.	7.	18.6
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	10/17/85-11/22/94	21	0.602	0.551	1.863	-0.301	0.288	0.536	-0.301	0.301	0.845	1.249
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			3.556								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/17/85-11/22/94	21	16.	49.381	500.	0.	11859.148	108.9	1.2	4.	50.5	127.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/17/85-11/22/94	21	1.204	1.129	2.699	0.	0.522	0.723	0.06	0.54	1.69	2.097
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			13.47								
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/29/86-11/22/94	17	4.	4.529	8.	3.	2.765	1.663	3.	3.	5.5	8.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/10/63-11/22/94	33	14.	13.848	23.	2.	29.195	5.403	5.6	9.5	18.5	21.2

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

Seasonal Analysis for Season #1: 10/01 to 3/31 - Station GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/05/66-12/10/85	9	13.	13.667	20.	10.	11.	3.317	10.	10.5	16.	20.
70331p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	03/25/65-08/24/94	20	64.5	65.7	100.	1.	525.695	22.928	40.7	54.5	79.75	99.1
80030p	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	10/12/67-02/24/93	9 ##	0.3	0.261	0.3	0.2	0.002	0.049	0.2	0.2	0.3	0.3
80040p	ALPHA,SUSPENDED GROSS, AS URANIUM-NATURAL, UG/L	10/12/67-02/24/93	9 ##	0.3	0.267	0.3	0.2	0.003	0.05	0.2	0.2	0.3	0.3
80050p	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	10/12/67-02/24/93	9	0.7	0.689	1.2	0.3	0.119	0.344	0.3	0.3	1.	1.2
80060p	BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L	10/12/67-02/24/93	9 ##	0.3	0.378	0.8	0.2	0.037	0.192	0.2	0.3	0.45	0.8
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/25/65-08/24/94	39	3.	66.944	735.	0.3	27829.655	166.822	0.5	1.	8.	320.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	03/25/65-09/16/82	20	3.45	1631.526	11100.	0.21	9821405.004	3133.912	0.385	1.15	1957.75	6169.

** - Less 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: 4/01 to 9/30 - Station GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	65	18.5	17.262	23.5	7.	17.169	4.144	9.6	15.5	20.	21.7
00060	FLOW, STREAM, MEAN DAILY CFS	08/10/63-10/08/70	8	63.5	130.125	325.	45.	13872.125	117.78	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/25/65-11/22/94	61	142.	185.836	1170.	43.	24961.306	157.991	73.2	102.5	242.5	299.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/17/85-11/22/94	16	0.95	1.531	11.	0.2	6.584	2.566	0.2	0.6	1.25	4.7
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/10/63-11/22/94	57	19.	19.544	61.	2.	50.253	7.089	14.	17.	21.	24.
00300p	OXYGEN, DISSOLVED MG/L	10/12/67-11/22/94	23	9.9	9.852	12.	8.6	1.101	1.049	8.64	8.8	10.6	11.62
00400p	PH (STANDARD UNITS)	08/10/63-11/22/94	25	6.9	6.89	7.4	6.4	0.039	0.198	6.66	6.8	6.99	7.18
00400p	CONVERTED PH (STANDARD UNITS)	08/10/63-11/22/94	25	6.9	6.848	7.4	6.4	0.041	0.203	6.66	6.8	6.99	7.18
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/10/63-11/22/94	25	0.126	0.142	0.398	0.04	0.005	0.069	0.068	0.102	0.158	0.22
00403	PH, LAB, STANDARD UNITS SU	10/17/85-11/22/94	16	7.35	7.356	8.2	6.5	0.287	0.535	6.64	6.9	7.9	8.06
00403	CONVERTED PH, LAB, STANDARD UNITS	10/17/85-11/22/94	16	7.347	7.082	8.2	6.5	0.367	0.606	6.64	6.9	7.9	8.06
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/17/85-11/22/94	16	0.045	0.083	0.316	0.006	0.008	0.09	0.009	0.013	0.126	0.235
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/10/63-06/29/94	15	6.	6.2	12.	0.	13.743	3.707	0.	4.	10.	10.8
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/17/85-11/22/94	16	0.015	0.016	0.05	0.005	0.	0.013	0.005	0.005	0.02	0.036
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/17/85-12/07/92	11	0.02	0.017	0.04	0.005	0.	0.013	0.005	0.005	0.03	0.038
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	10/17/85-11/22/94	16 ##	0.005	0.005	0.01	0.005	0.	0.001	0.005	0.005	0.005	0.007
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/17/85-11/22/94	16 ##	0.1	0.206	0.6	0.1	0.026	0.161	0.1	0.1	0.375	0.46
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/17/85-11/22/94	16	0.2	0.177	0.3	0.025	0.005	0.074	0.078	0.1	0.2	0.3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/17/85-11/22/94	16	0.02	0.015	0.03	0.005	0.	0.008	0.005	0.005	0.02	0.023
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/17/85-11/22/94	16 ##	0.005	0.01	0.03	0.005	0.	0.009	0.005	0.005	0.01	0.03
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/17/85-11/22/94	16 ##	0.005	0.007	0.02	0.005	0.	0.004	0.005	0.005	0.009	0.013
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/10/63-12/10/85	8	7.	6.25	8.	4.	3.929	1.982	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/10/63-12/10/85	8	0.	0.25	2.	0.	0.5	0.707	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/10/63-11/22/94	24	1.6	1.688	3.9	1.	0.35	0.591	1.05	1.4	1.875	2.25
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/10/63-11/22/94	24	0.4	0.446	0.8	0.2	0.021	0.144	0.25	0.4	0.575	0.65
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/10/63-11/22/94	24	1.	1.004	1.2	0.7	0.02	0.14	0.75	0.9	1.1	1.2
00931	SODIUM ADSORPTION RATIO	08/10/63-12/10/85	7	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	08/10/63-12/10/85	7	29.	26.857	33.	20.	32.476	5.699	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/10/63-11/22/94	24	0.5	0.496	0.7	0.	0.018	0.133	0.35	0.5	0.6	0.6
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/10/63-11/22/94	24	0.5	0.575	2.	0.2	0.147	0.384	0.3	0.3	0.675	1.
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/10/63-11/22/94	24	2.	2.125	4.	1.	0.723	0.85	1.	2.	2.75	3.5
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	08/10/63-11/22/94	24 ##	0.05	0.05	0.2	0.	0.003	0.053	0.	0.	0.05	0.15
00955p	SILICA, DISSOLVED (MG/L AS SI02)	08/10/63-11/22/94	24	5.65	5.725	6.8	3.8	0.468	0.684	4.8	5.4	6.275	6.55
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/08/70-02/05/91	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/17/85-11/22/94	9	8.	9.444	26.	5.	41.028	6.405	5.	6.	9.5	26.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/30/68-02/05/91	4 ##	0.5	0.375	0.5	0.	0.063	0.25	**	**	**	**
01035p	COBALT, DISSOLVED (UG/L AS CO)	09/30/68-11/22/94	10 ##	1.5	1.35	1.5	0.	0.225	0.474	0.15	1.5	1.5	1.5
01046p	IRON, DISSOLVED (UG/L AS FE)	08/10/63-11/22/94	17	14.	15.706	60.	0.	188.846	13.742	3.2	7.	20.	36.
01049	LEAD, DISSOLVED (UG/L AS PB)	09/30/68-02/05/91	4 ##	2.5	4.	10.	1.	16.5	4.062	**	**	**	**
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	08/10/63-11/22/94	18	0.75	5.056	30.	0.	91.761	9.579	0.	0.	4.75	30.
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/17/85-11/22/94	9 ##	5.	6.111	10.	5.	4.861	2.205	5.	5.	7.5	10.
01065p	NICKEL, DISSOLVED (UG/L AS NI)	09/30/68-11/22/94	10 ##	0.5	0.85	4.	0.	1.281	1.132	0.05	0.5	0.625	3.7
01075p	SILVER, DISSOLVED (UG/L AS AG)	09/30/68-11/22/94	10 ##	0.5	0.45	0.5	0.	0.025	0.158	0.05	0.5	0.5	0.5

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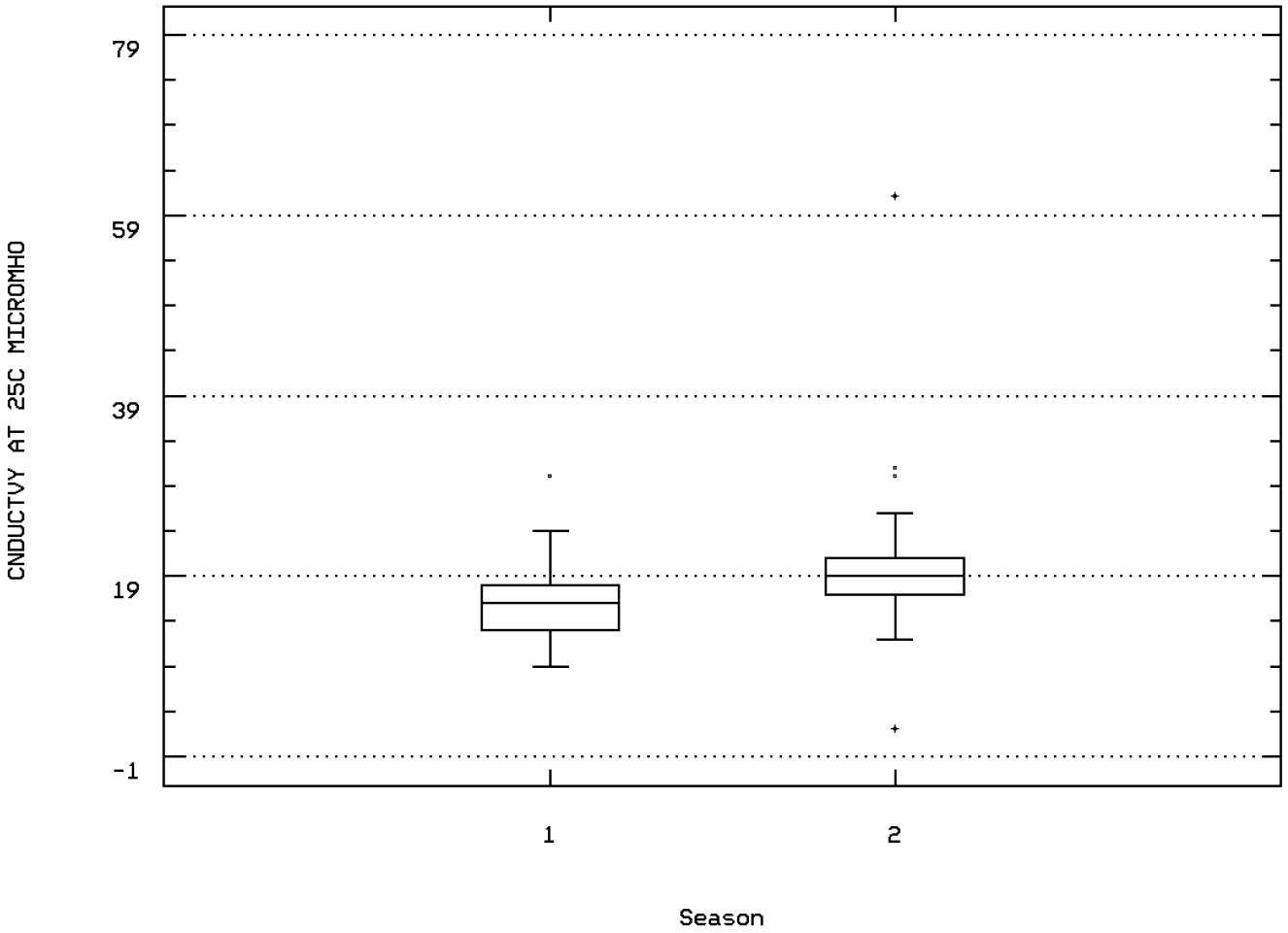
Seasonal Analysis for Season #2: 4/01 to 9/30 - Station GRSM0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01080p	STRONTIUM, DISSOLVED (UG/L AS SR)	09/30/68-11/22/94	10	10.	8.8	12.	0.	11.511	3.393	0.8	8.	11.	11.9
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/17/85-11/22/94	9 ##	3.	3.	3.	3.	0.	0.	3.	3.	3.	3.
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/30/68-02/05/91	4	8.	7.5	14.	0.	35.667	5.972	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/17/85-11/22/94	9	20.	16.667	40.	5.	118.75	10.897	5.	7.5	20.	40.
01130p	LITHIUM, DISSOLVED (UG/L AS LI)	09/30/68-11/22/94	10 ##	2.	1.8	2.	0.	0.4	0.632	0.2	2.	2.	2.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/17/85-11/22/94	9 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
03515p	BETA, DISSOLVED GROSS, AS CS-137, PC/L	10/12/67-02/24/93	6	1.15	1.233	2.	0.7	0.195	0.441	**	**	**	**
03516p	BETA, SUSPENDED GROSS, AS CS-137, PC/L	10/12/67-02/24/93	6 ##	0.55	0.617	1.1	0.2	0.158	0.397	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	10/17/85-11/22/94	18	15.	83.611	1040.	1.	58127.663	241.097	1.9	7.5	45.25	230.
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	10/17/85-11/22/94	18	1.176	1.257	3.017	0.	0.469	0.685	0.271	0.872	1.65	2.233
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			18.079								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/17/85-11/22/94	19	89.	108.368	360.	2.	10277.246	101.377	2.	8.	170.	274.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/17/85-11/22/94	19	1.949	1.679	2.556	0.301	0.566	0.753	0.301	0.903	2.23	2.438
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			47.788								
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/29/86-11/22/94	14	5.	5.5	12.	3.	4.423	2.103	3.5	4.	6.	9.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/10/63-11/22/94	24	15.	15.292	25.	8.	16.476	4.059	9.5	13.	18.	21.5
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/05/66-12/10/85	6	15.	15.667	19.	13.	5.867	2.422	**	**	**	**
70331p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	03/25/65-08/24/94	14	70.	74.286	100.	55.	282.066	16.795	55.5	58.5	89.	100.
80030p	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	10/12/67-02/24/93	6 ##	0.3	0.333	0.7	0.2	0.035	0.186	**	**	**	**
80040p	ALPHA,SUSPENDED GROSS, AS URANIUM-NATURAL, UG/L	10/12/67-02/24/93	6 ##	0.3	0.45	1.	0.2	0.107	0.327	**	**	**	**
80050p	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	10/12/67-02/24/93	6	1.05	1.117	1.7	0.7	0.122	0.349	**	**	**	**
80060p	BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L	10/12/67-02/24/93	6 ##	0.5	0.567	1.1	0.2	0.127	0.356	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/25/65-08/24/94	28	3.	3.586	8.	0.4	5.469	2.339	0.5	2.	5.	8.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	03/25/65-09/16/82	13	1.1	2.211	9.6	0.35	7.183	2.68	0.418	0.745	2.5	8.12

** - Less 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: GRSM0182 Parameter Code: 00095

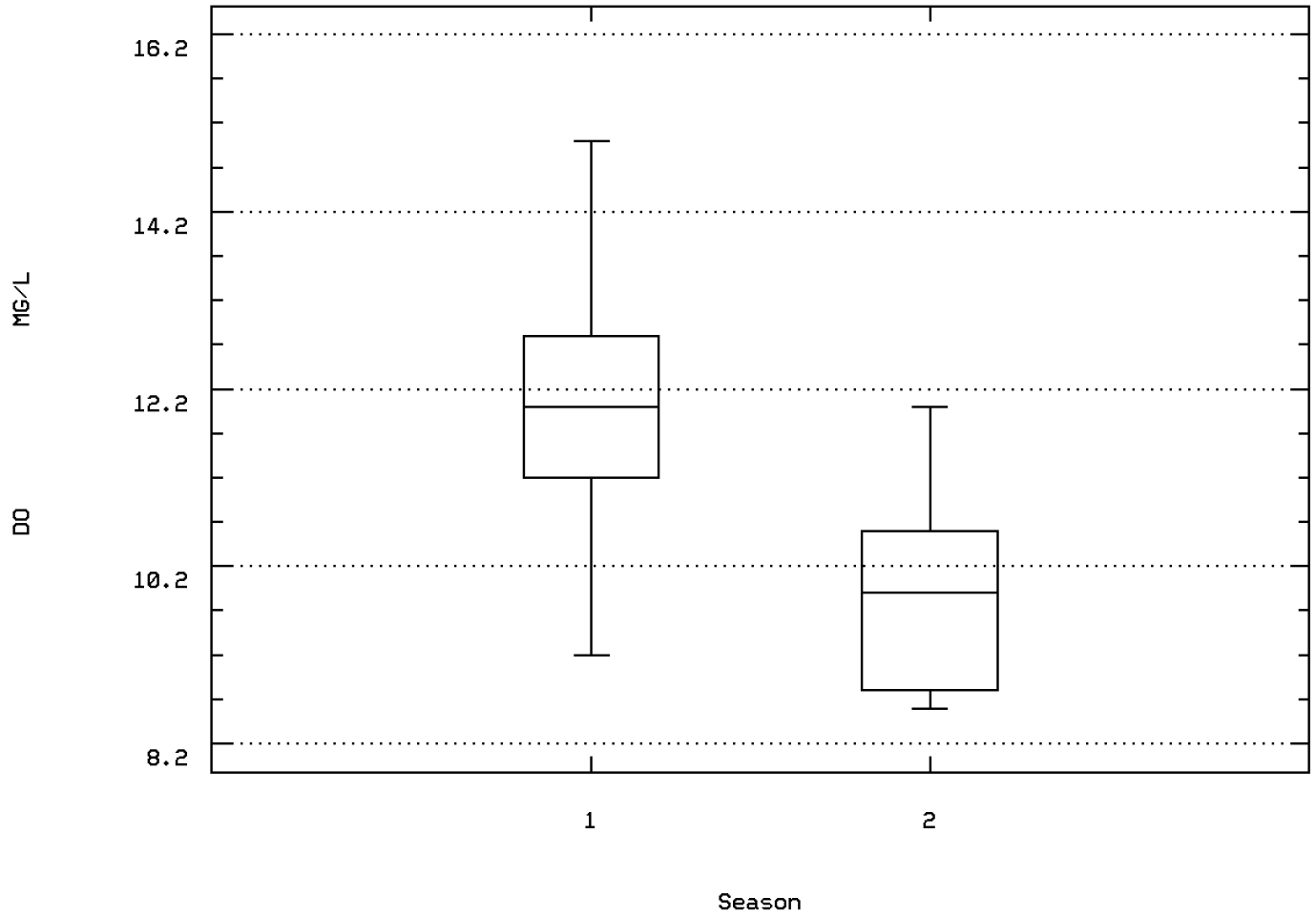
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



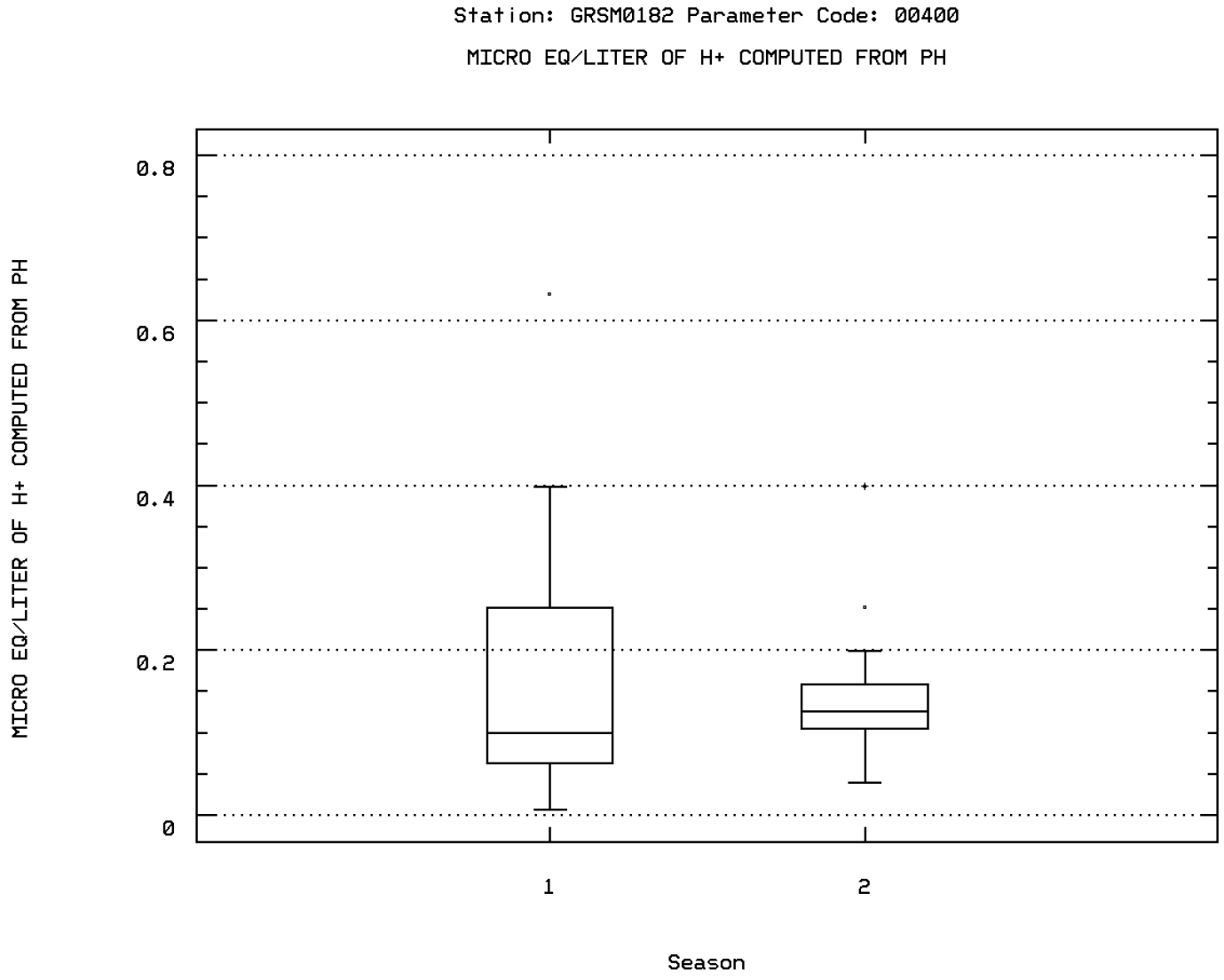
LITTLE R. AB TOWNSEND

Station: GRSM0182 Parameter Code: 00300

OXYGEN, DISSOLVED



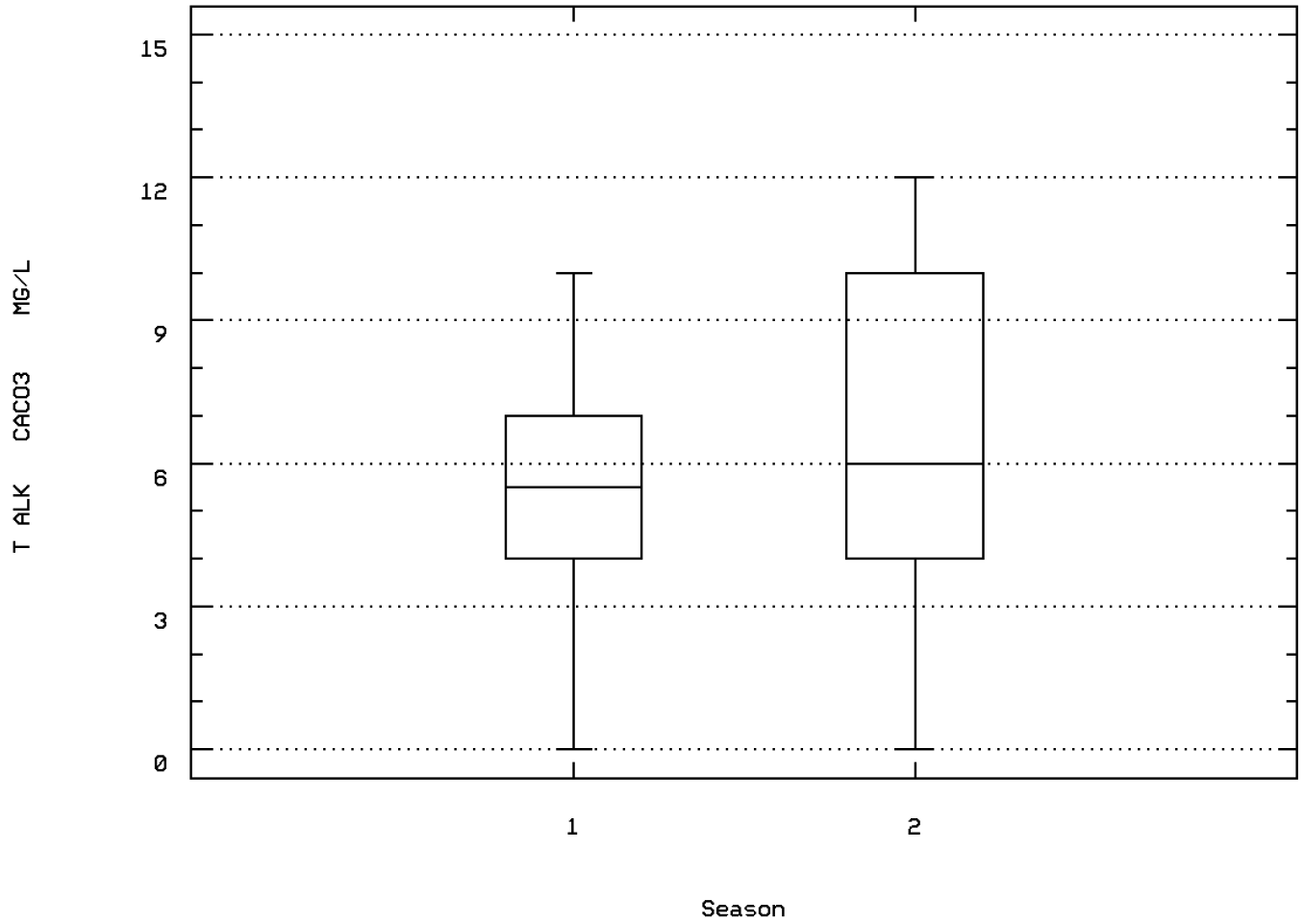
LITTLE R. AB TOWNSEND



LITTLE R. AB TOWNSEND

Station: GRSM0182 Parameter Code: 00410

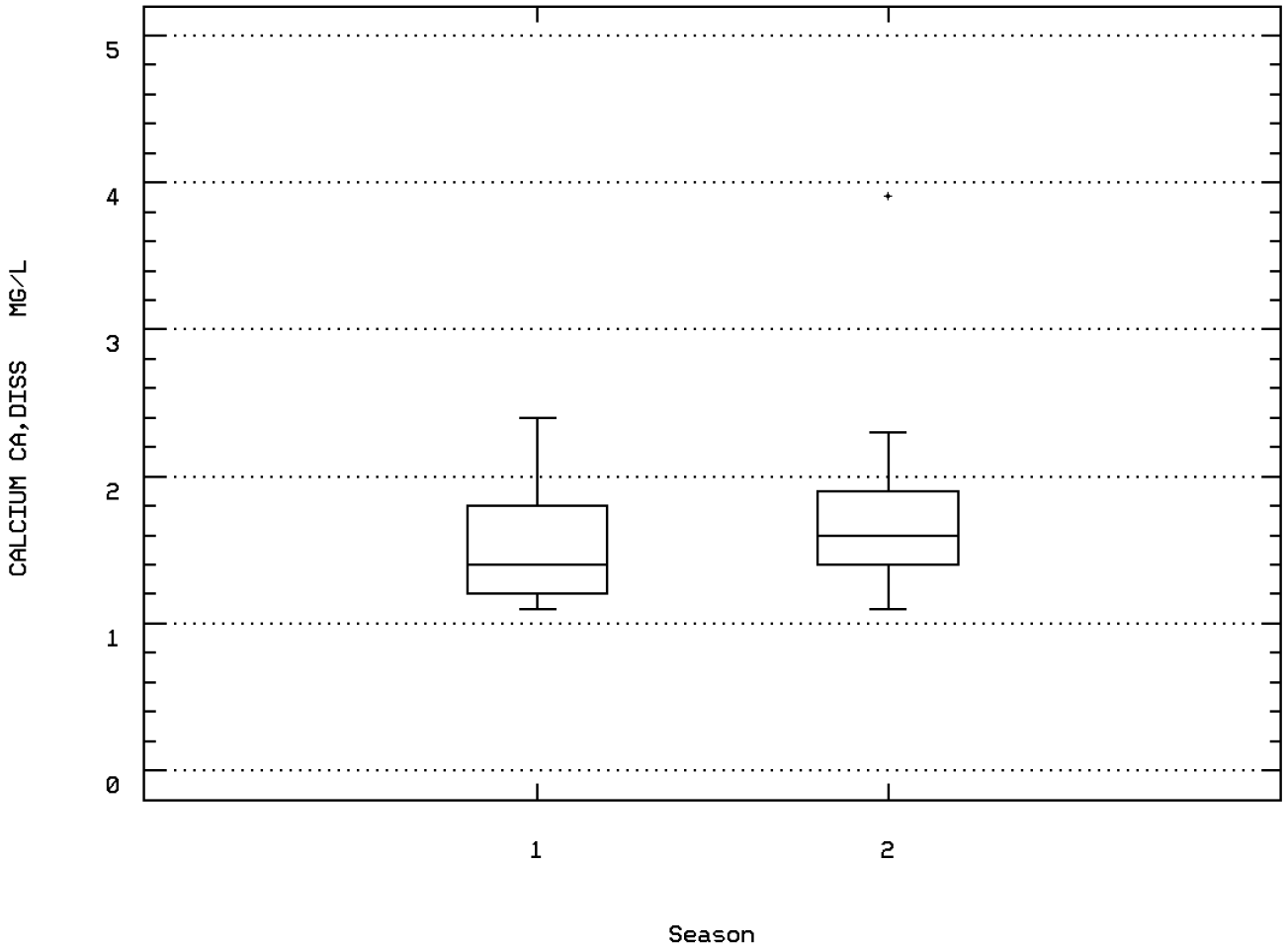
ALKALINITY, TOTAL (MG/L AS CACO3)



LITTLE R. AB TOWNSEND

Station: GRSM0182 Parameter Code: 00915

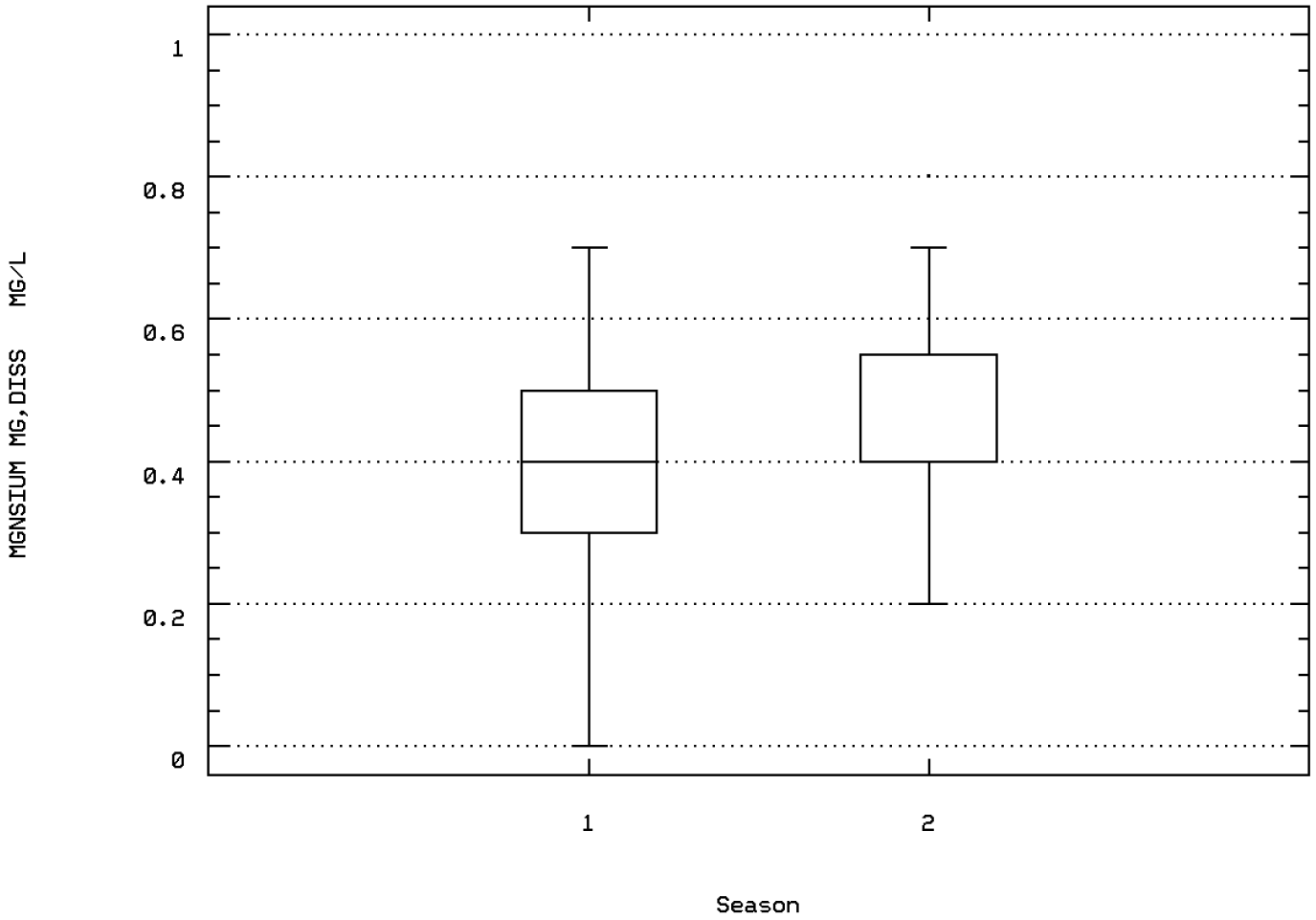
CALCIUM, DISSOLVED (MG/L AS CA)



LITTLE R. AB TOWNSEND

Station: GRSM0182 Parameter Code: 00925

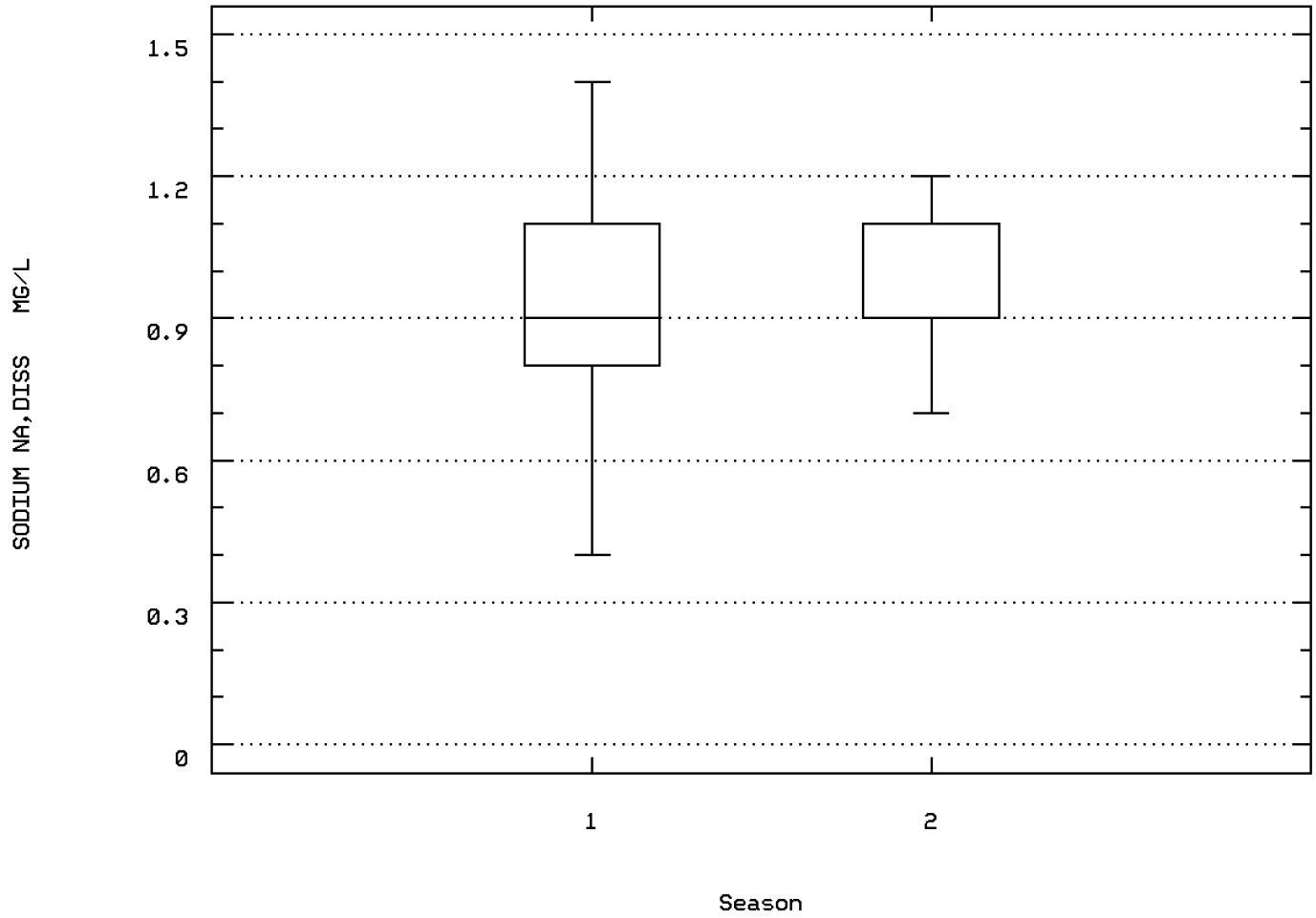
MAGNESIUM, DISSOLVED (MG/L AS MG)



LITTLE R. AB TOWNSEND

Station: GRSM0182 Parameter Code: 00930

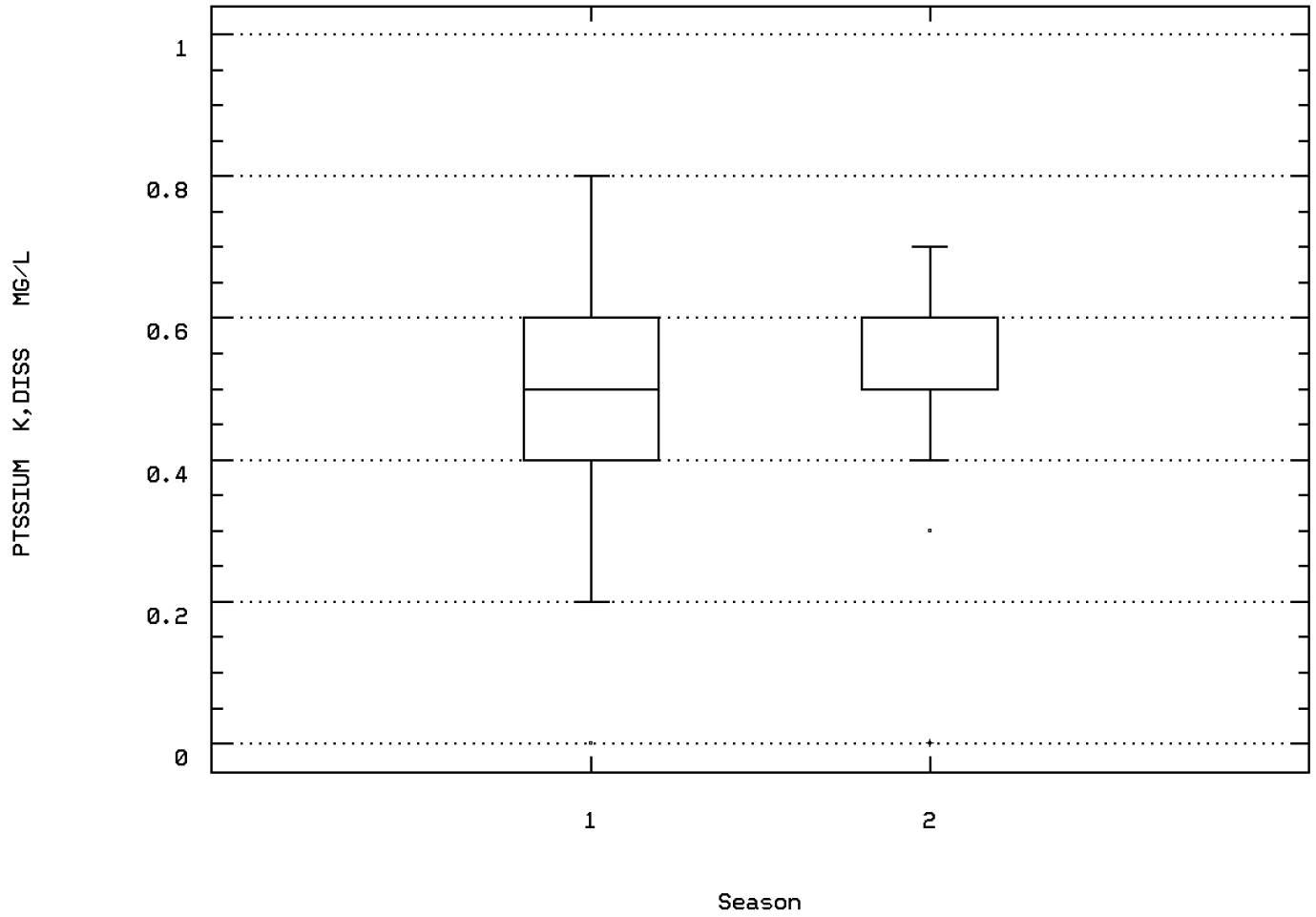
SODIUM, DISSOLVED (MG/L AS NA)



LITTLE R. AB TOWNSEND

Station: GRSM0182 Parameter Code: 00935

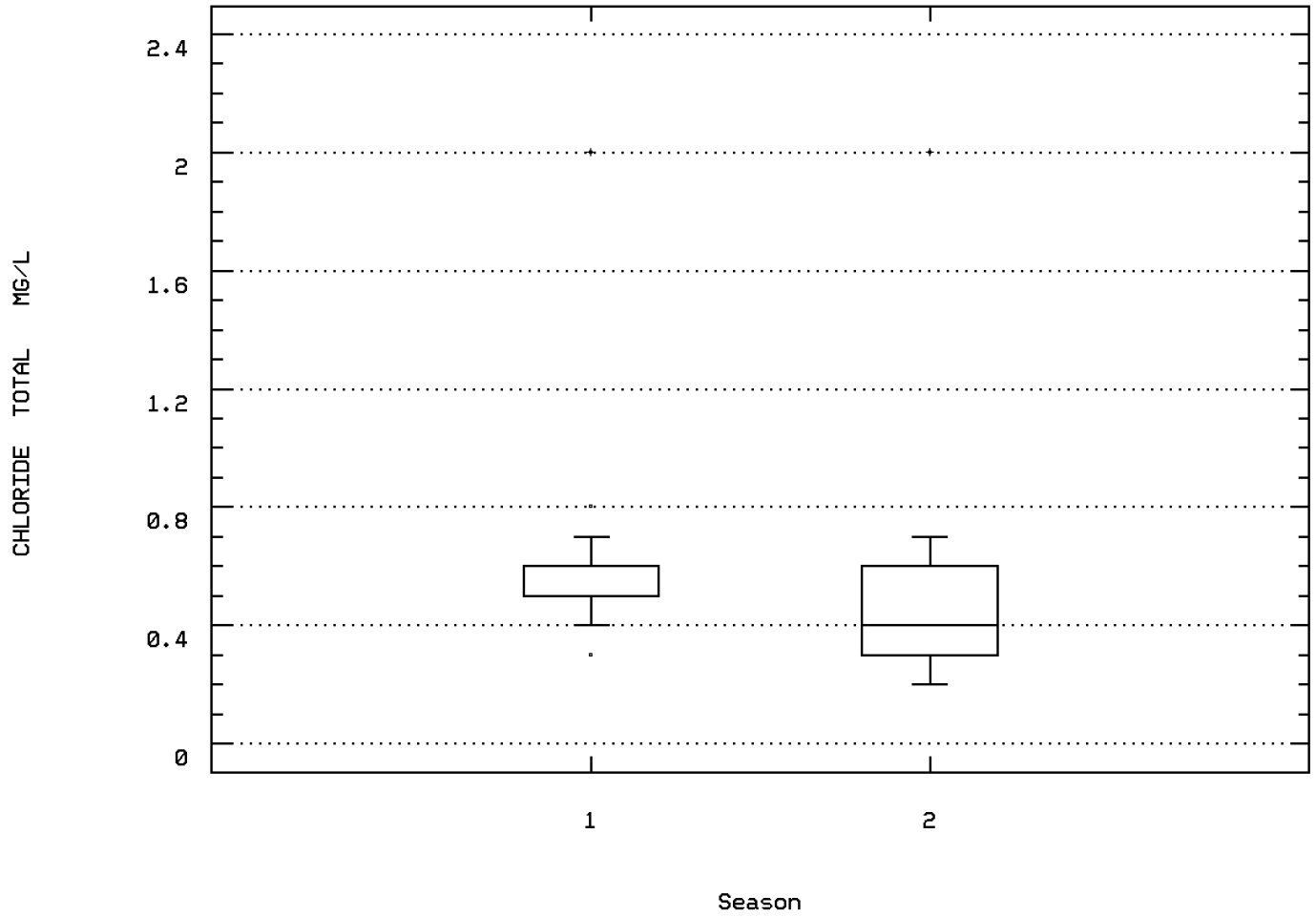
POTASSIUM, DISSOLVED (MG/L AS K)



LITTLE R. AB TOWNSEND

Station: GRSM0182 Parameter Code: 00940

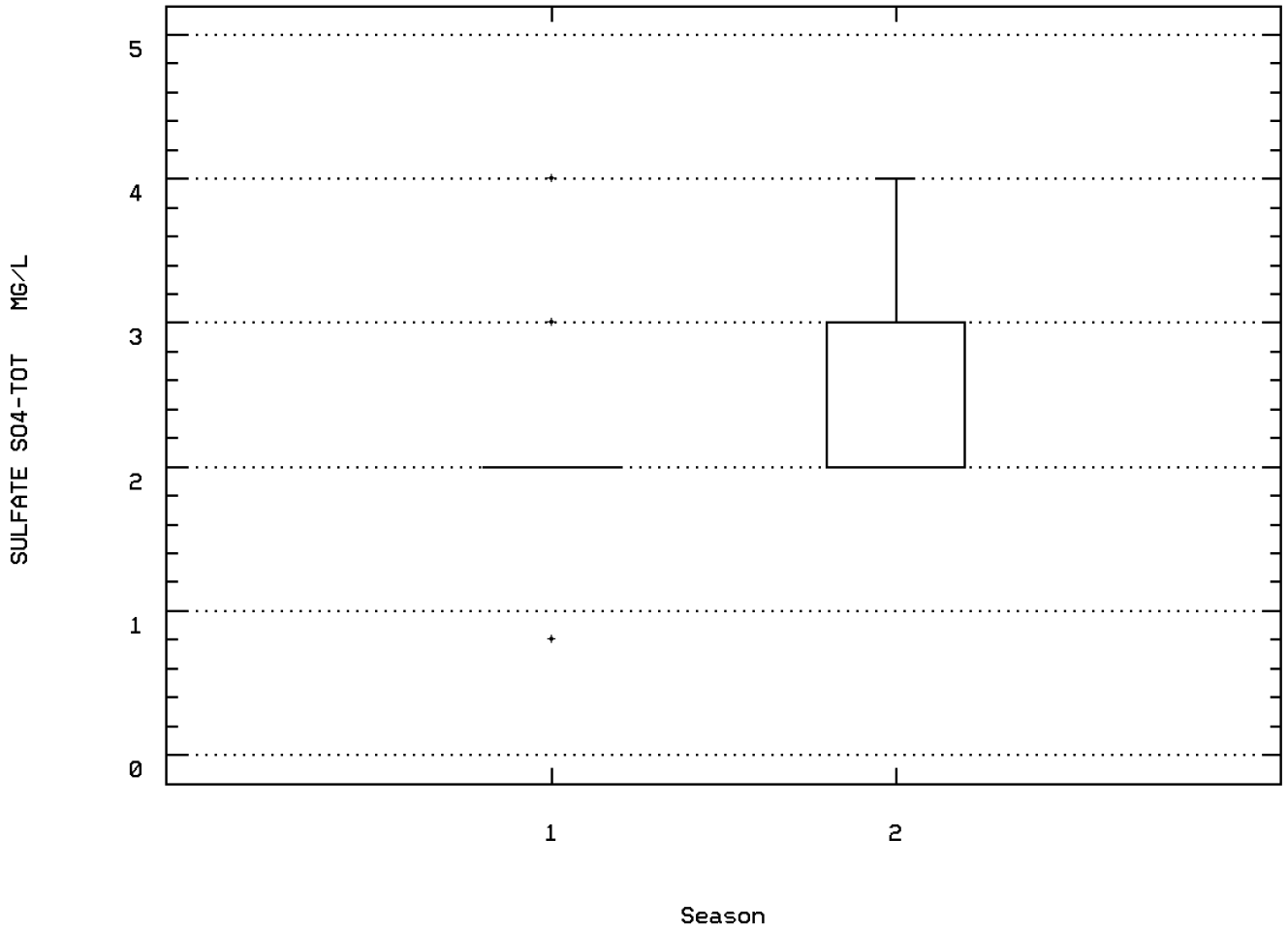
CHLORIDE,TOTAL IN WATER



LITTLE R. AB TOWNSEND

Station: GRSM0182 Parameter Code: 00945

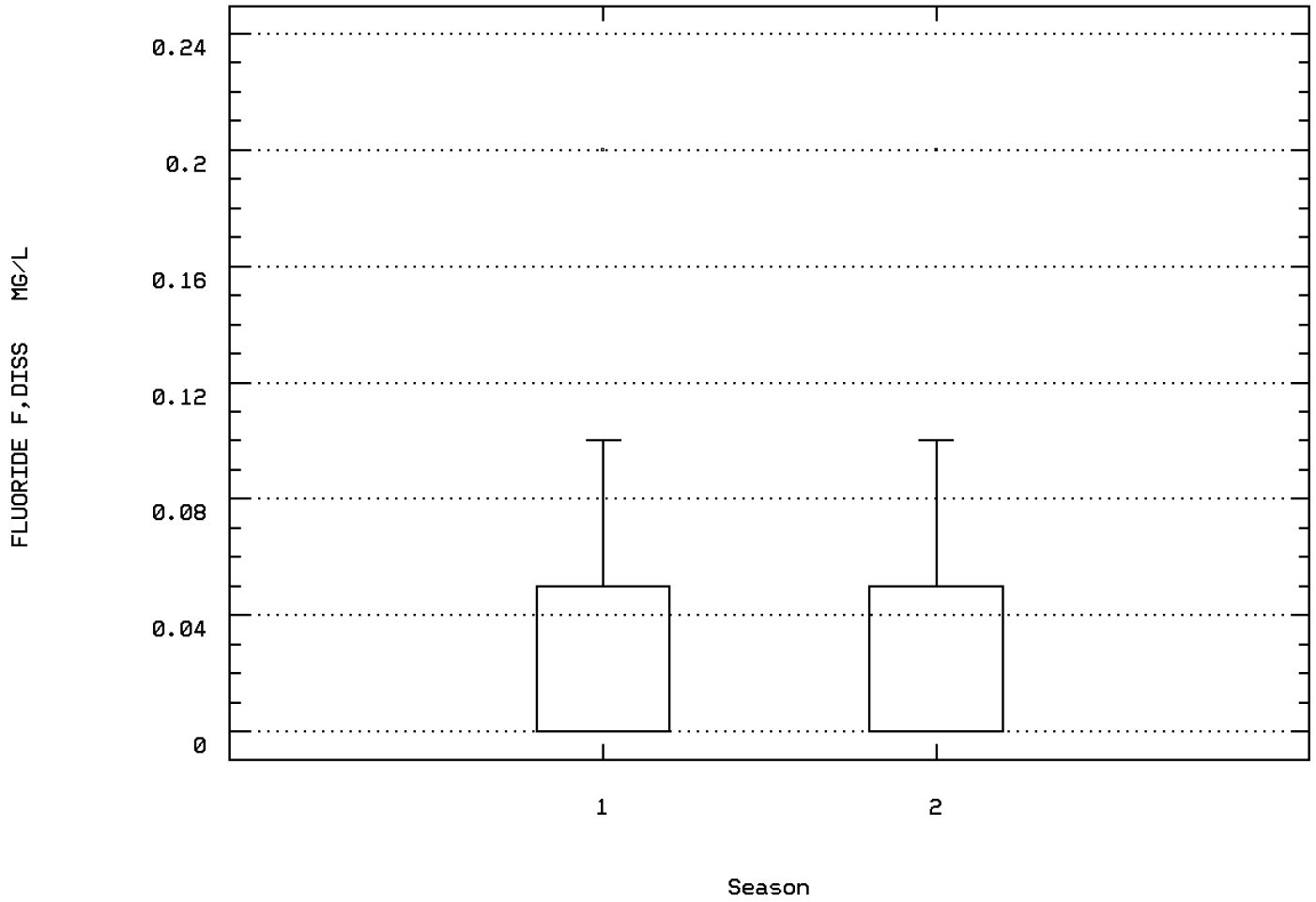
SULFATE, TOTAL (MG/L AS SO4)



LITTLE R. AB TOWNSEND

Station: GRSM0182 Parameter Code: 00950

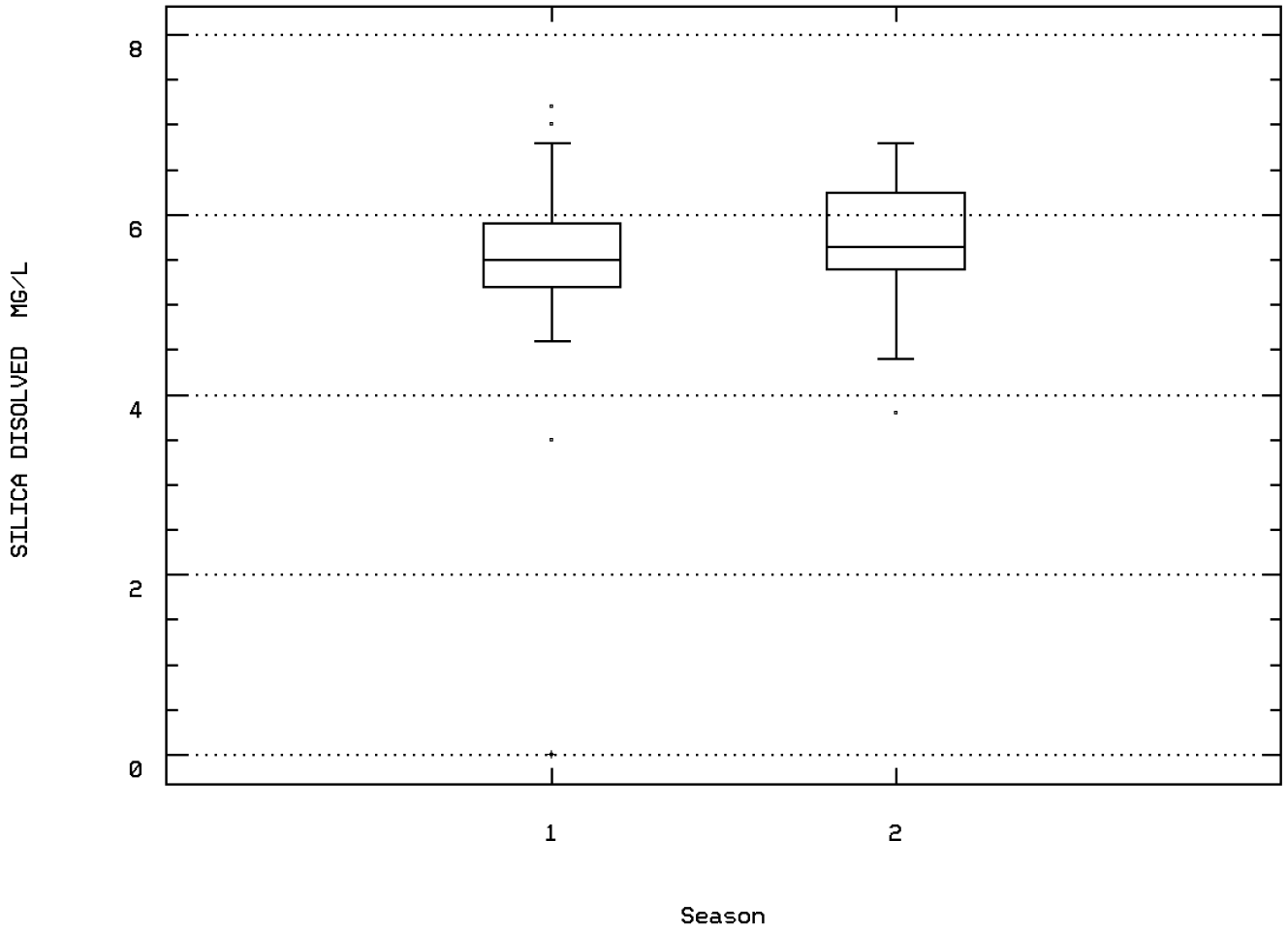
FLUORIDE, DISSOLVED (MG/L AS F)



LITTLE R. AB TOWNSEND

Station: GRSM0182 Parameter Code: 00955

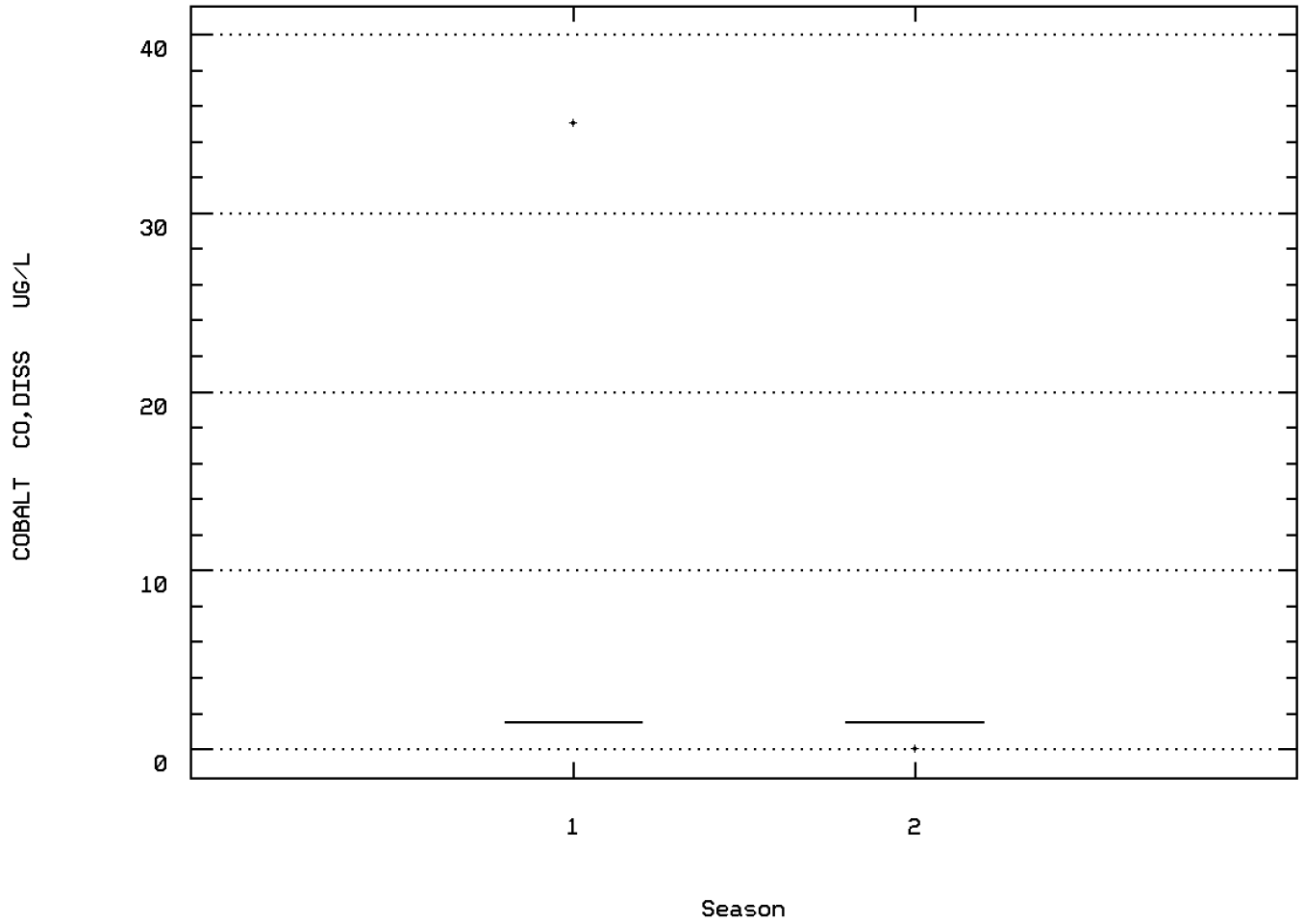
SILICA, DISSOLVED (MG/L AS SI02)



LITTLE R. AB TOWNSEND

Station: GRSM0182 Parameter Code: 01035

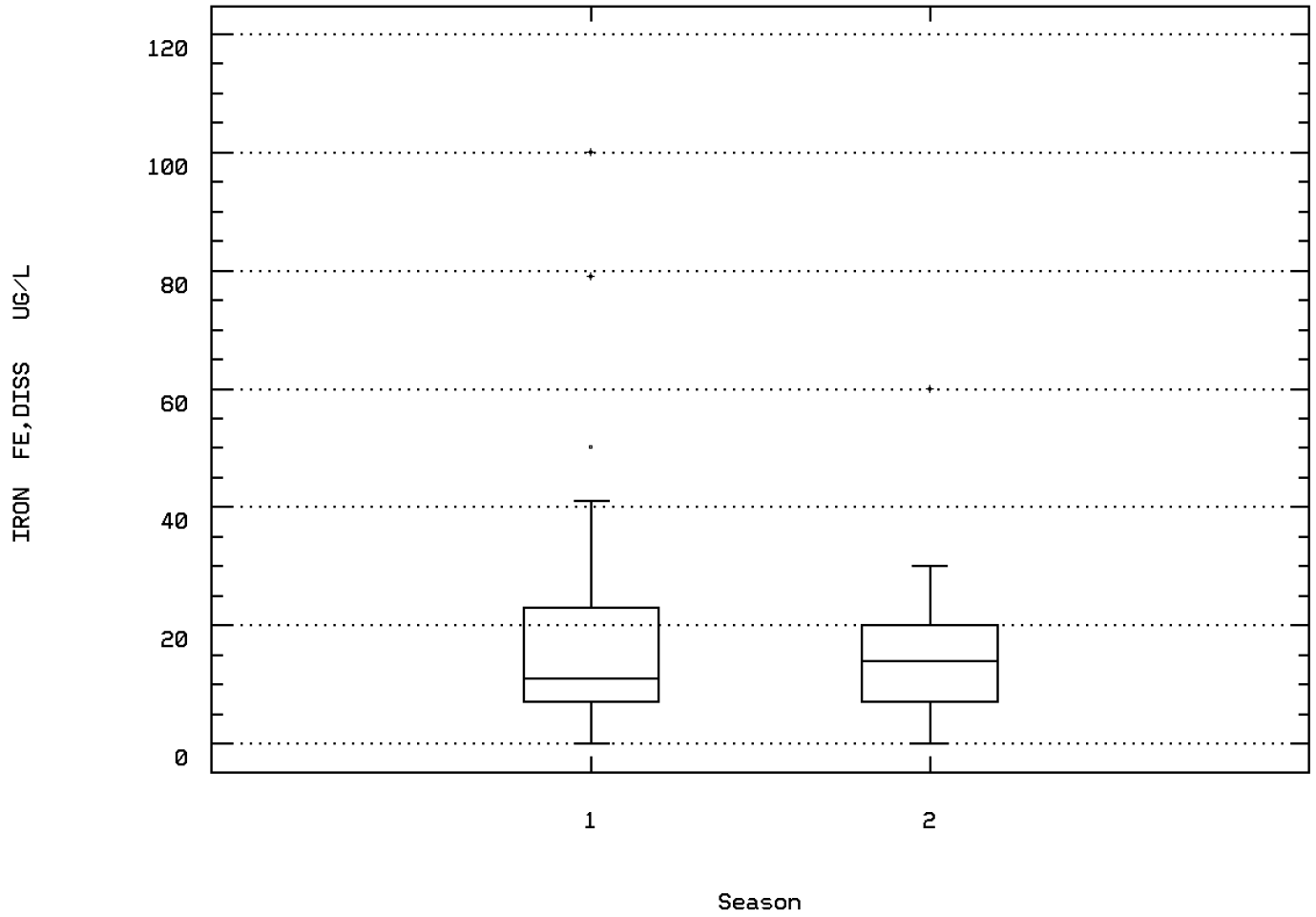
COBALT, DISSOLVED (UG/L AS CO)



LITTLE R. AB TOWNSEND

Station: GRSM0182 Parameter Code: 01046

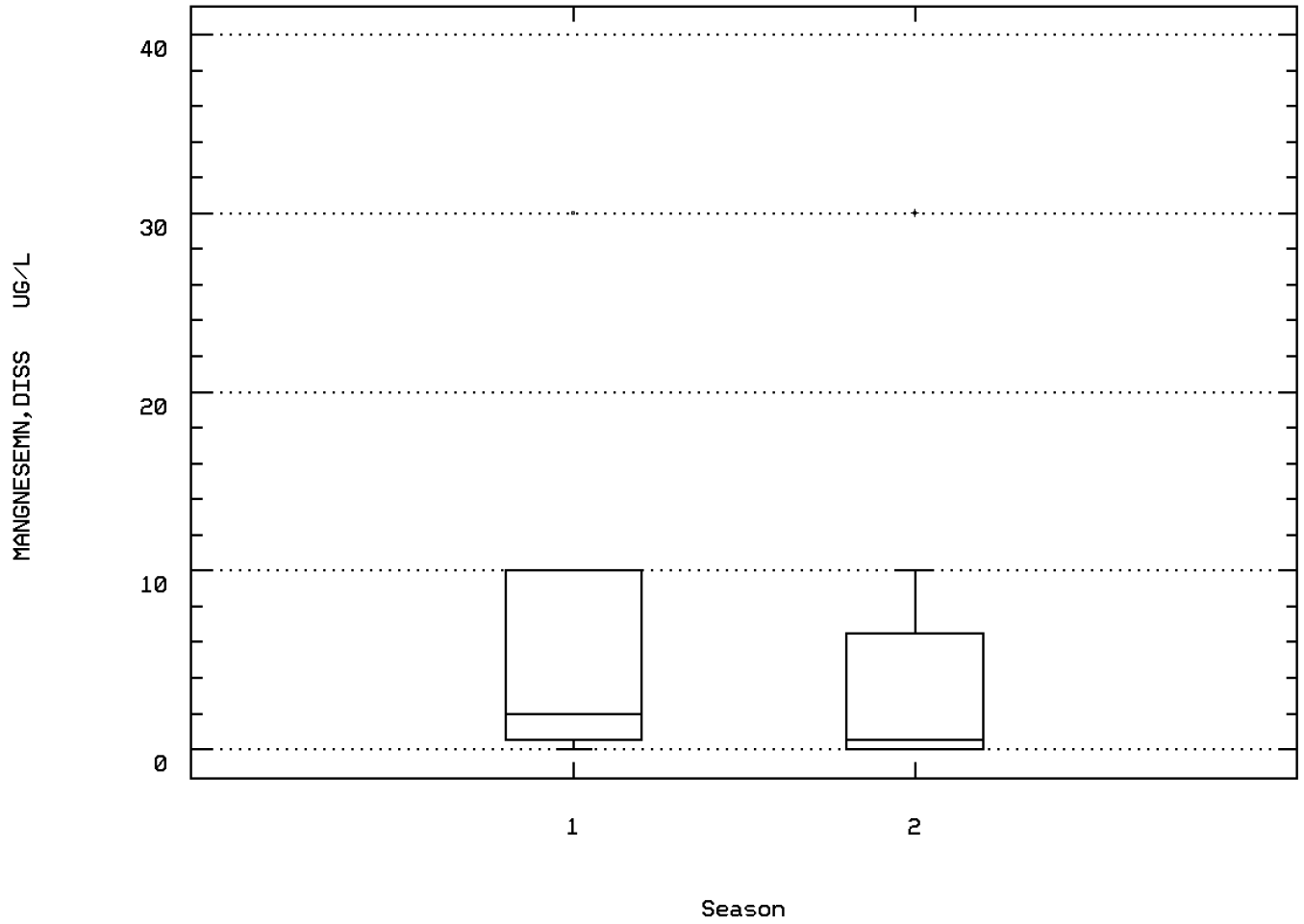
IRON, DISSOLVED (UG/L AS FE)



LITTLE R. AB TOWNSEND

Station: GRSM0182 Parameter Code: 01056

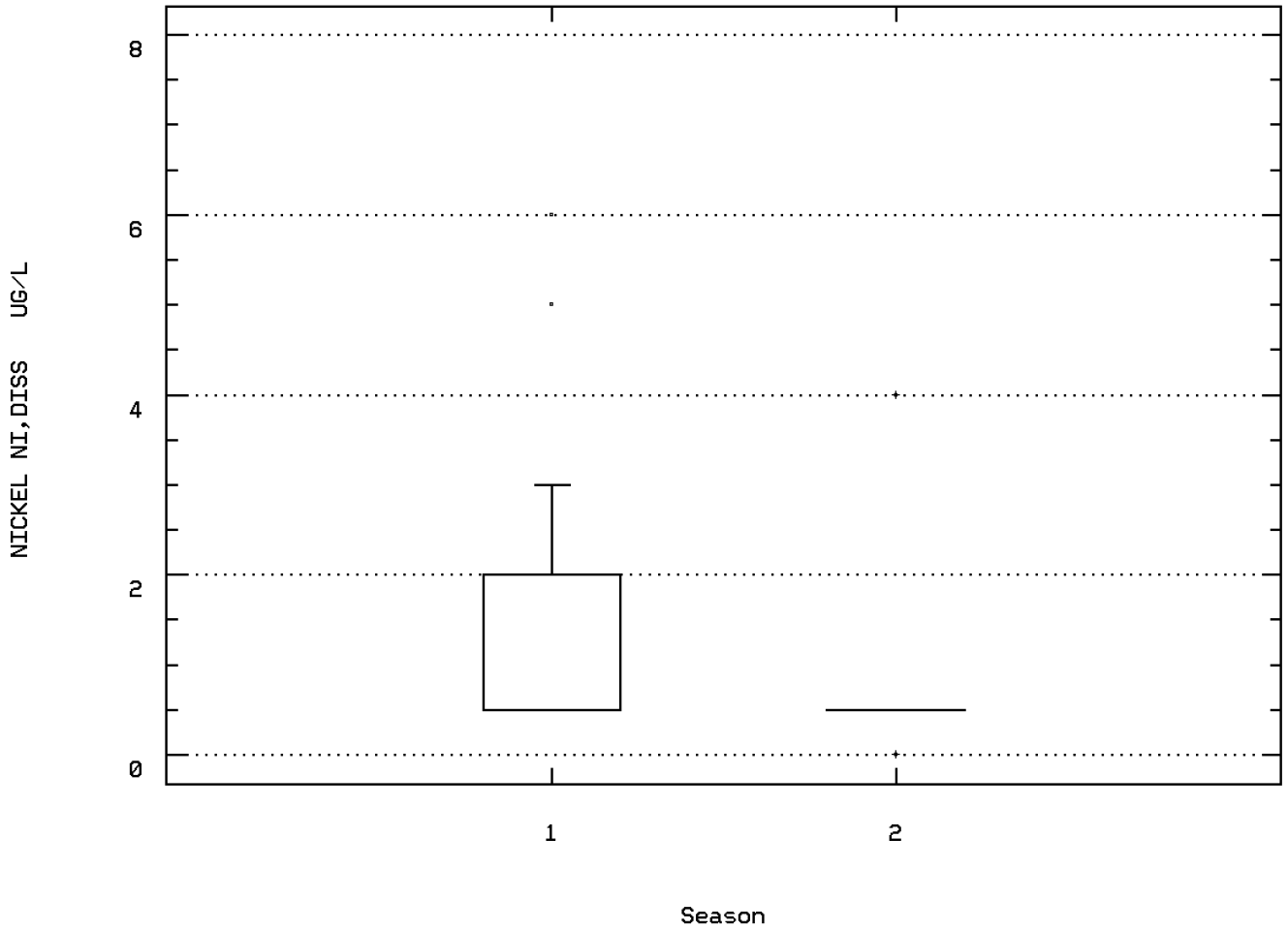
MANGANESE, DISSOLVED (UG/L AS MN)



LITTLE R. AB TOWNSEND

Station: GRSM0182 Parameter Code: 01065

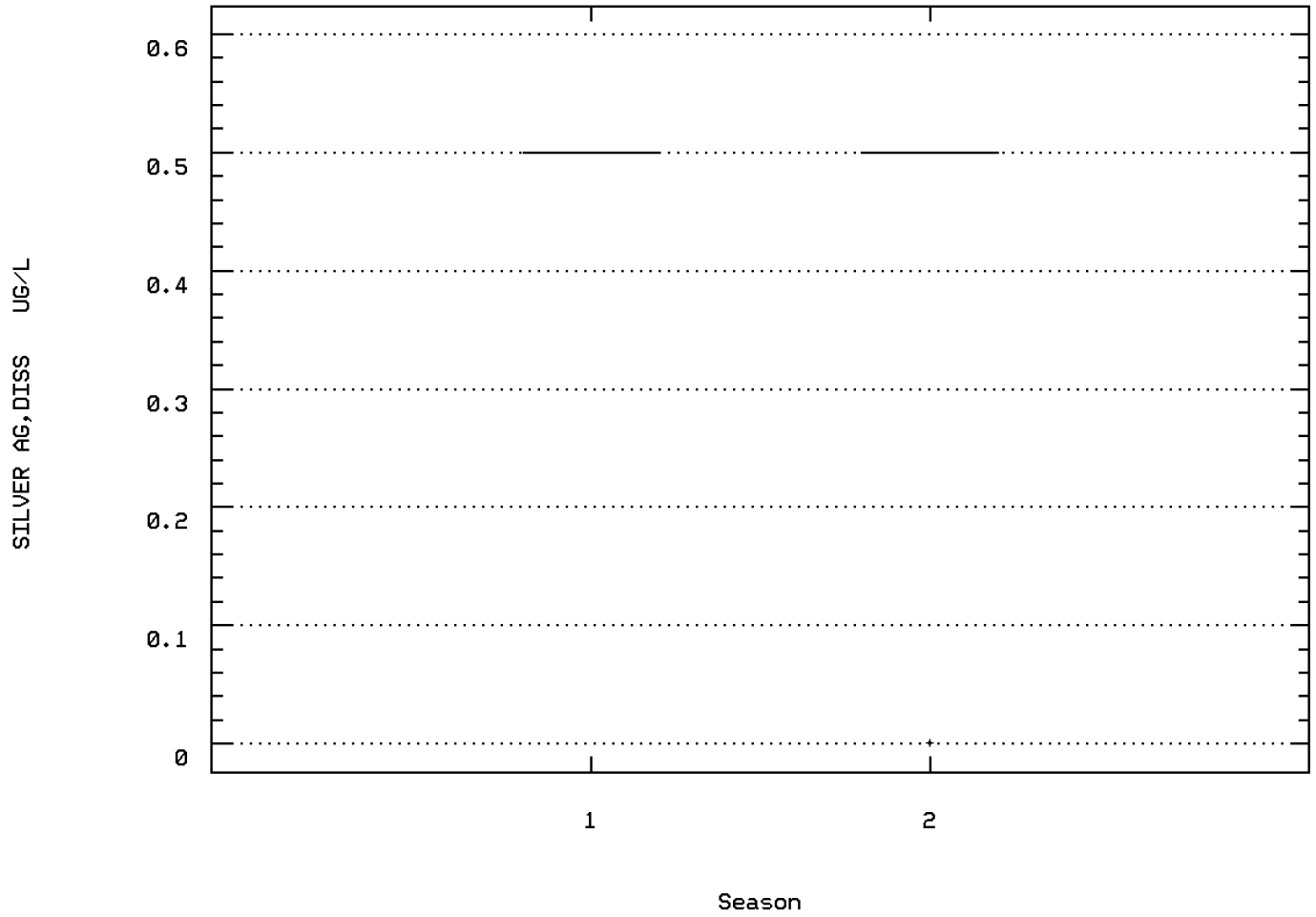
NICKEL, DISSOLVED (UG/L AS NI)



LITTLE R. AB TOWNSEND

Station: GRSM0182 Parameter Code: 01075

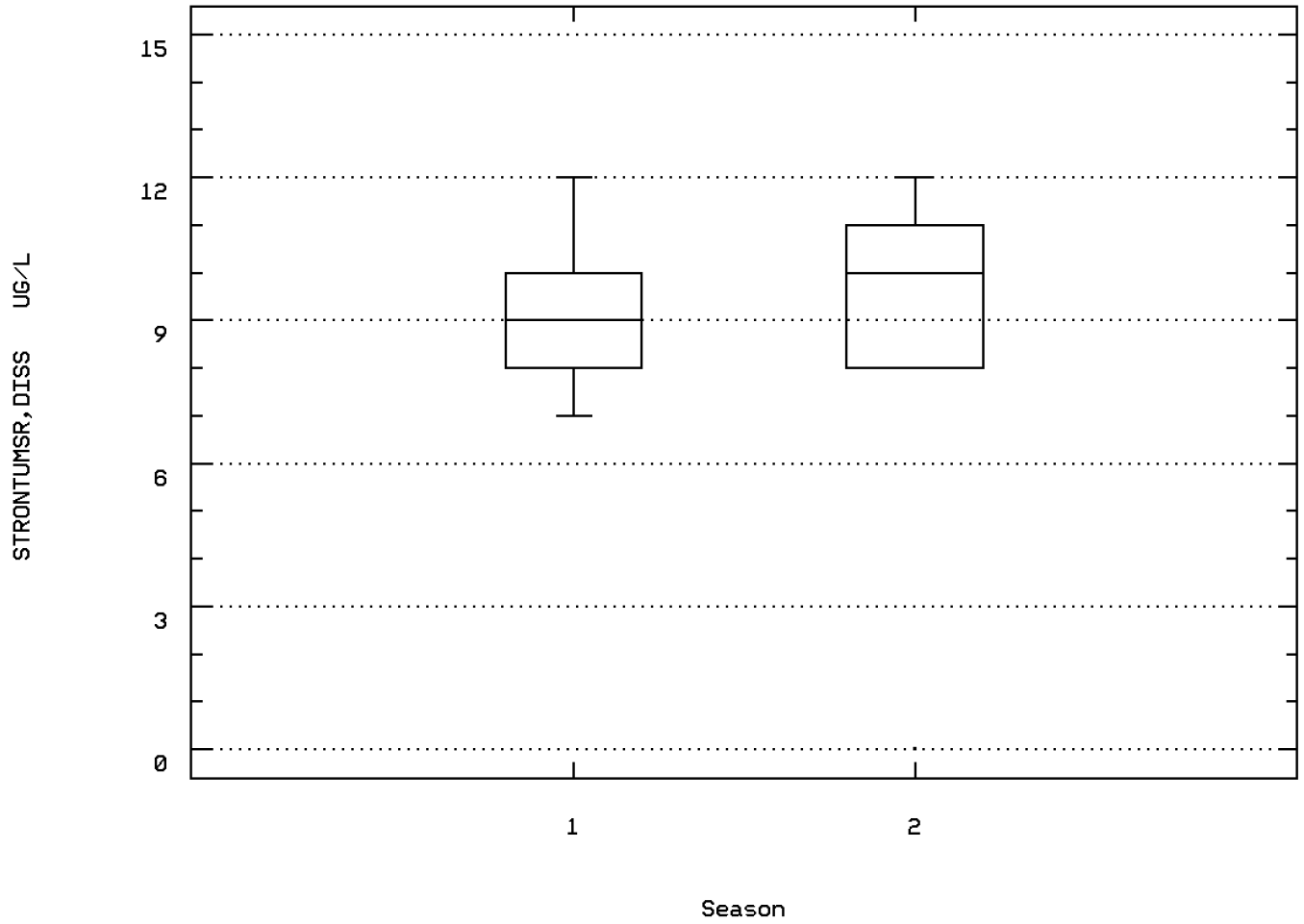
SILVER, DISSOLVED (UG/L AS AG)



LITTLE R. AB TOWNSEND

Station: GRSM0182 Parameter Code: 01080

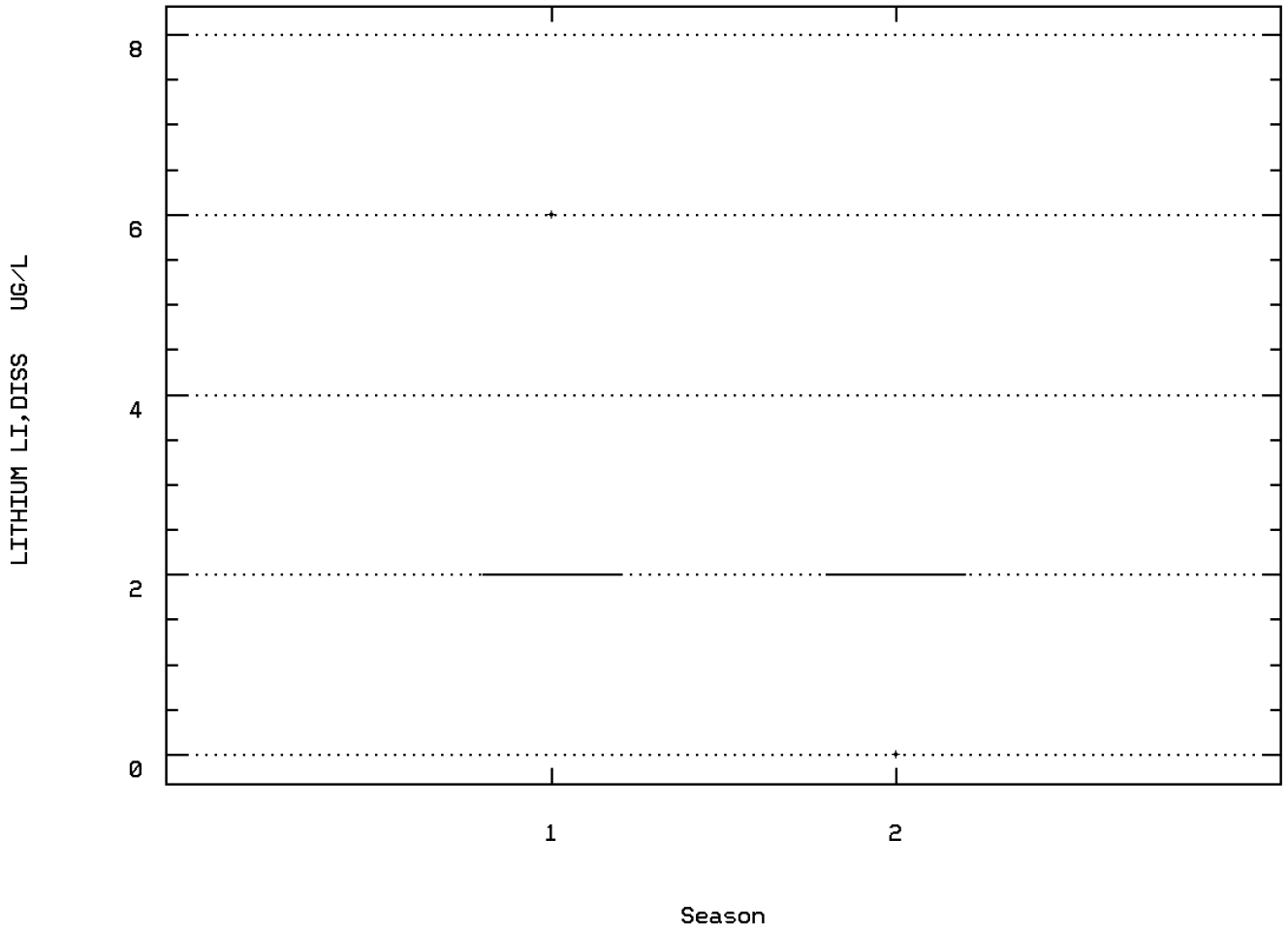
STRONTIUM, DISSOLVED (UG/L AS SR)



LITTLE R. AB TOWNSEND

Station: GRSM0182 Parameter Code: 01130

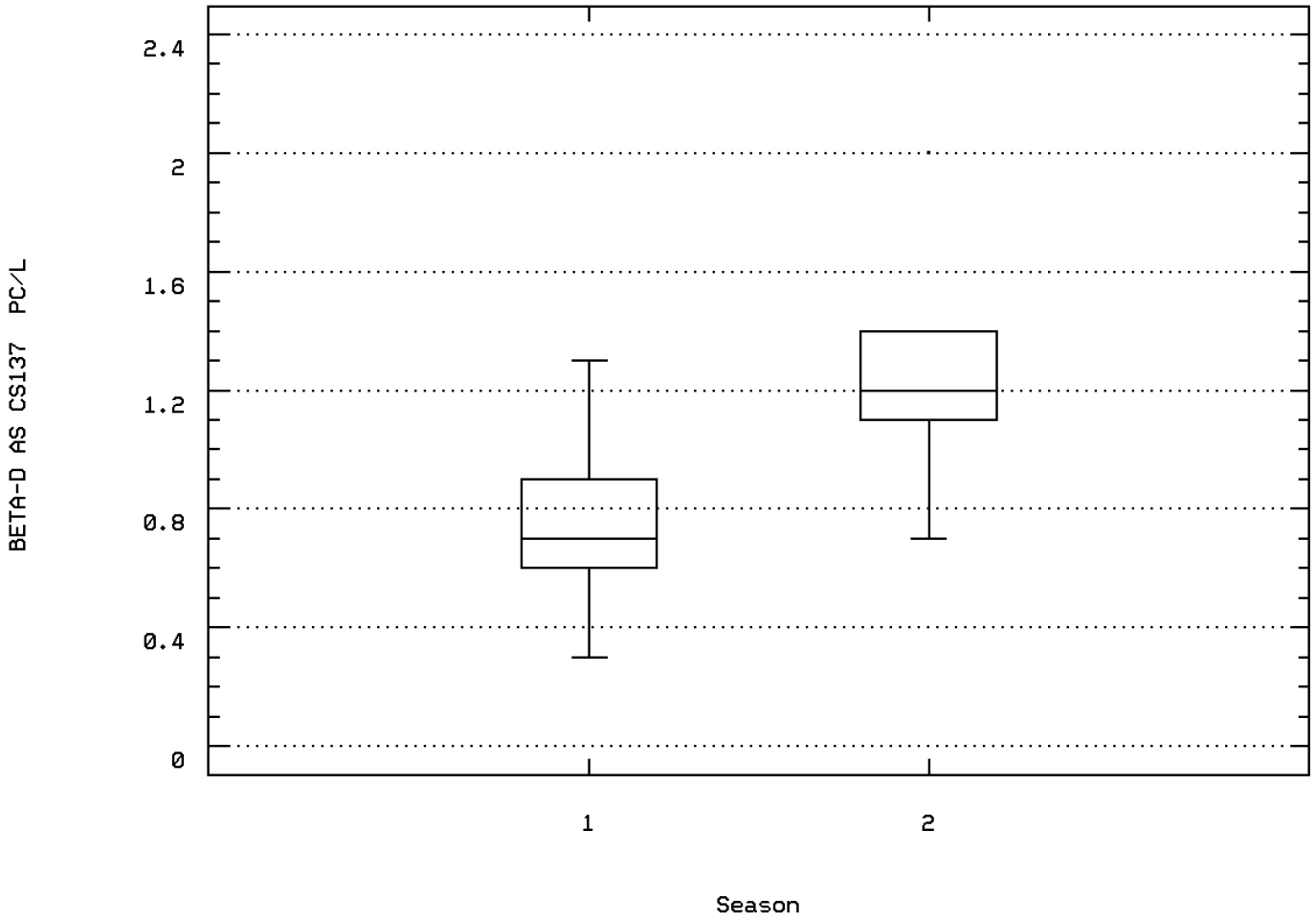
LITHIUM, DISSOLVED (UG/L AS LI)



LITTLE R. AB TOWNSEND

Station: GRSM0182 Parameter Code: 03515

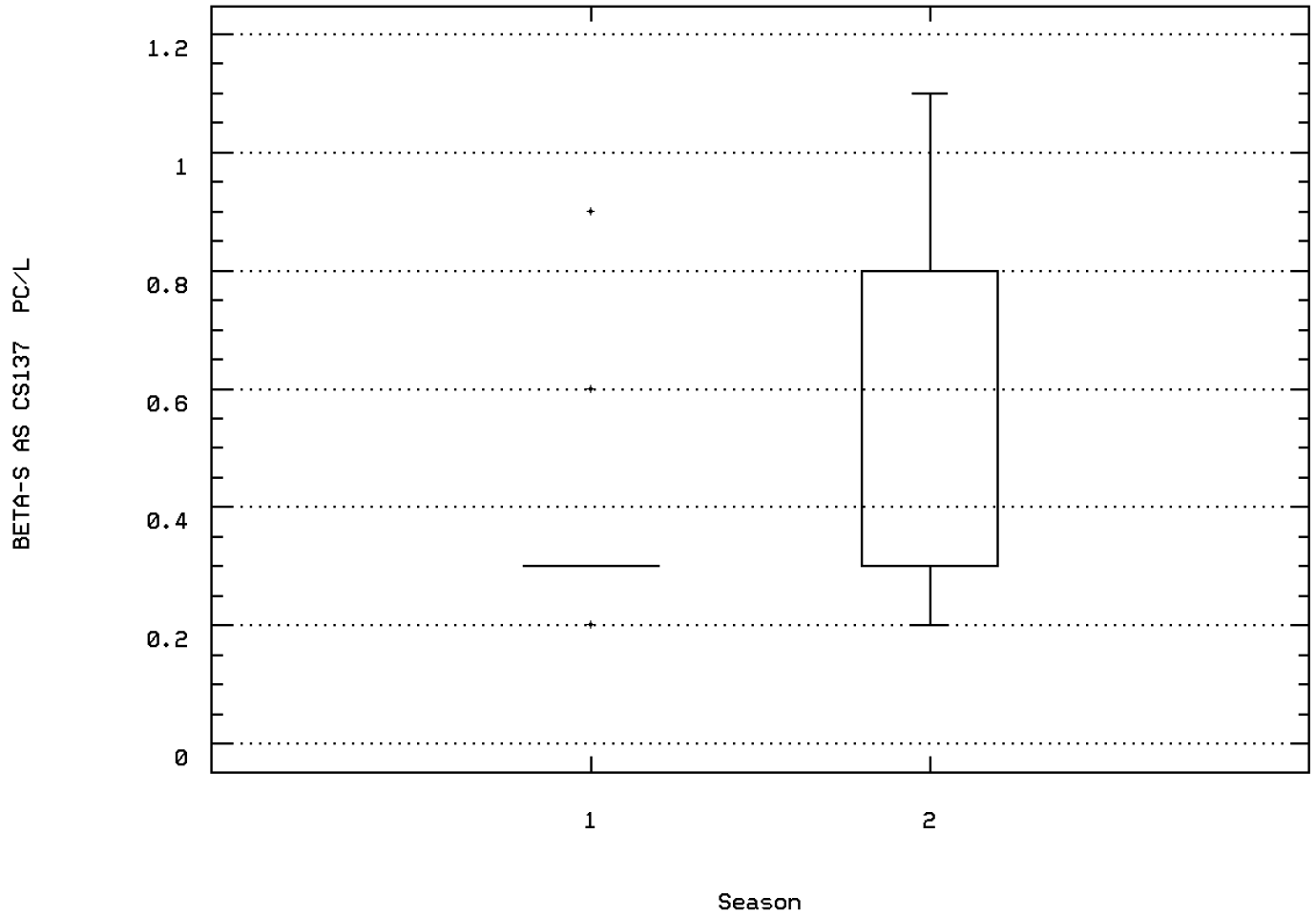
BETA, DISSOLVED GROSS, AS CS-137, PC/L



LITTLE R. AB TOWNSEND

Station: GRSM0182 Parameter Code: 03516

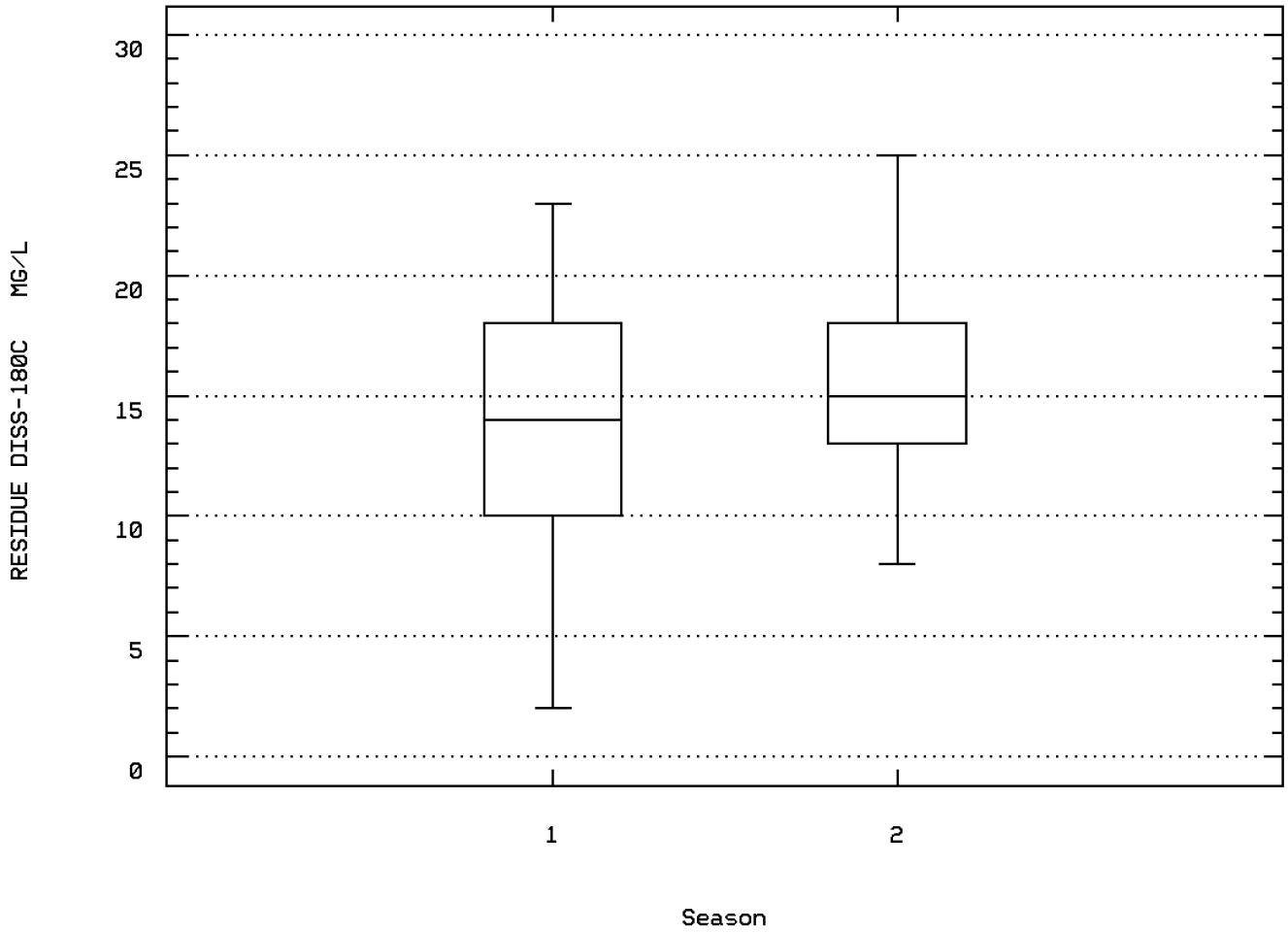
BETA, SUSPENDED GROSS, AS CS-137, PC/L



LITTLE R. AB TOWNSEND

Station: GRSM0182 Parameter Code: 70300

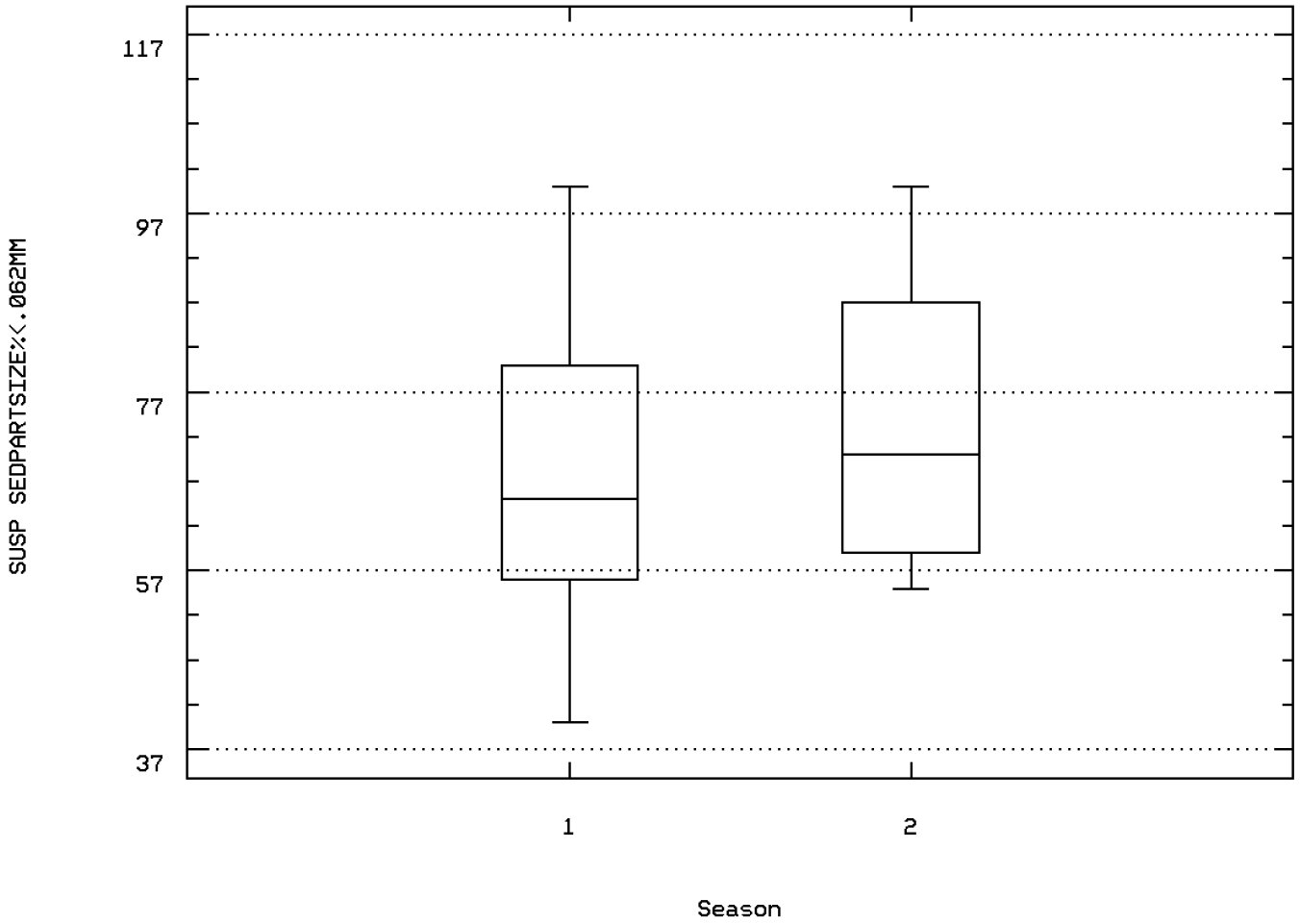
RESIDUE,TOTAL FILTRABLE (DRIED AT 180C)



LITTLE R. AB TOWNSEND

Station: GRSM0182 Parameter Code: 70331

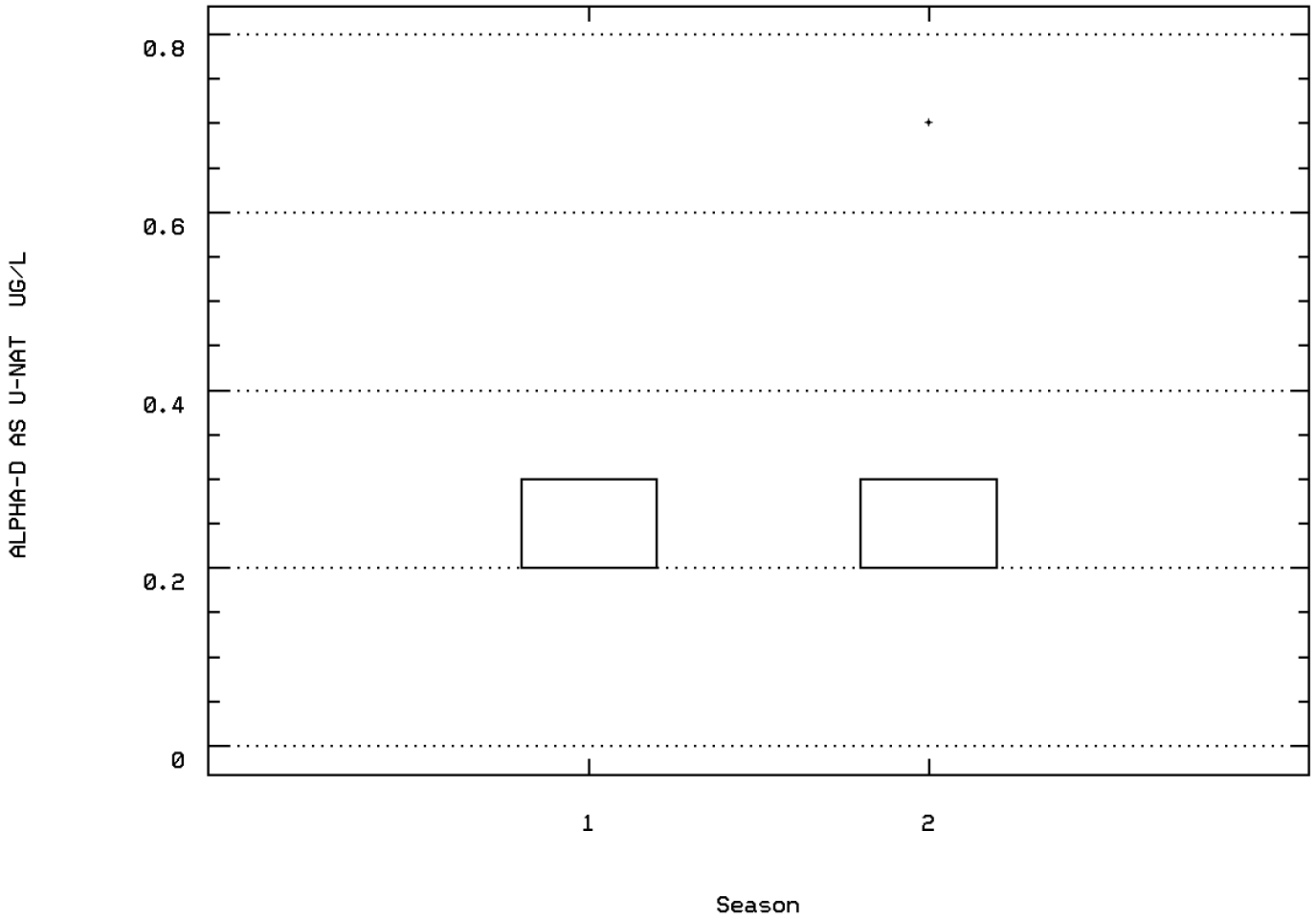
SUSPENDED SED SIEVE DIAMETER,% FINER TH



LITTLE R. AB TOWNSEND

Station: GRSM0182 Parameter Code: 80030

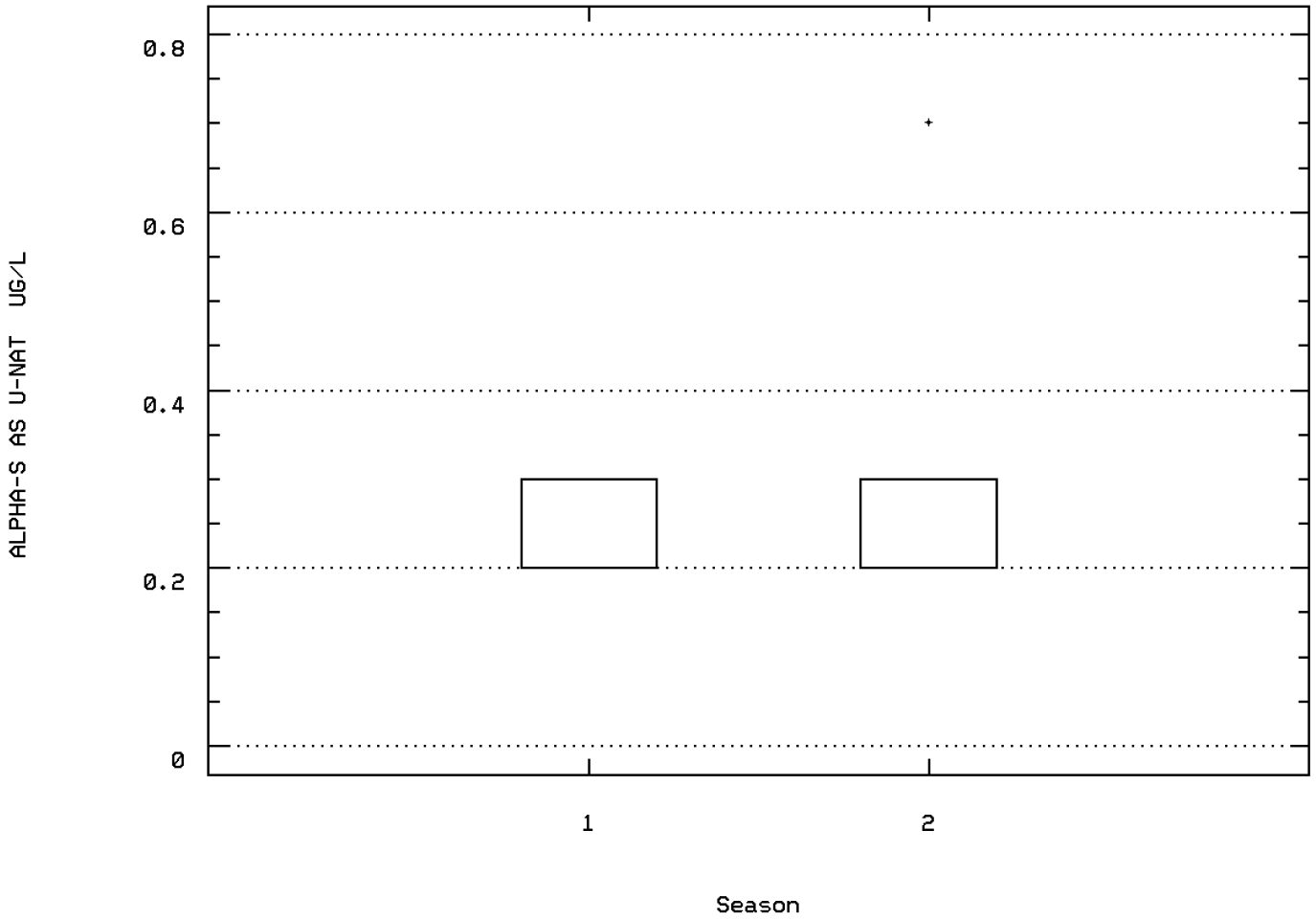
ALPHA,DISSOLVED GROSS,AS URANIUM-NATURA



LITTLE R. AB TOWNSEND

Station: GRSM0182 Parameter Code: 80040

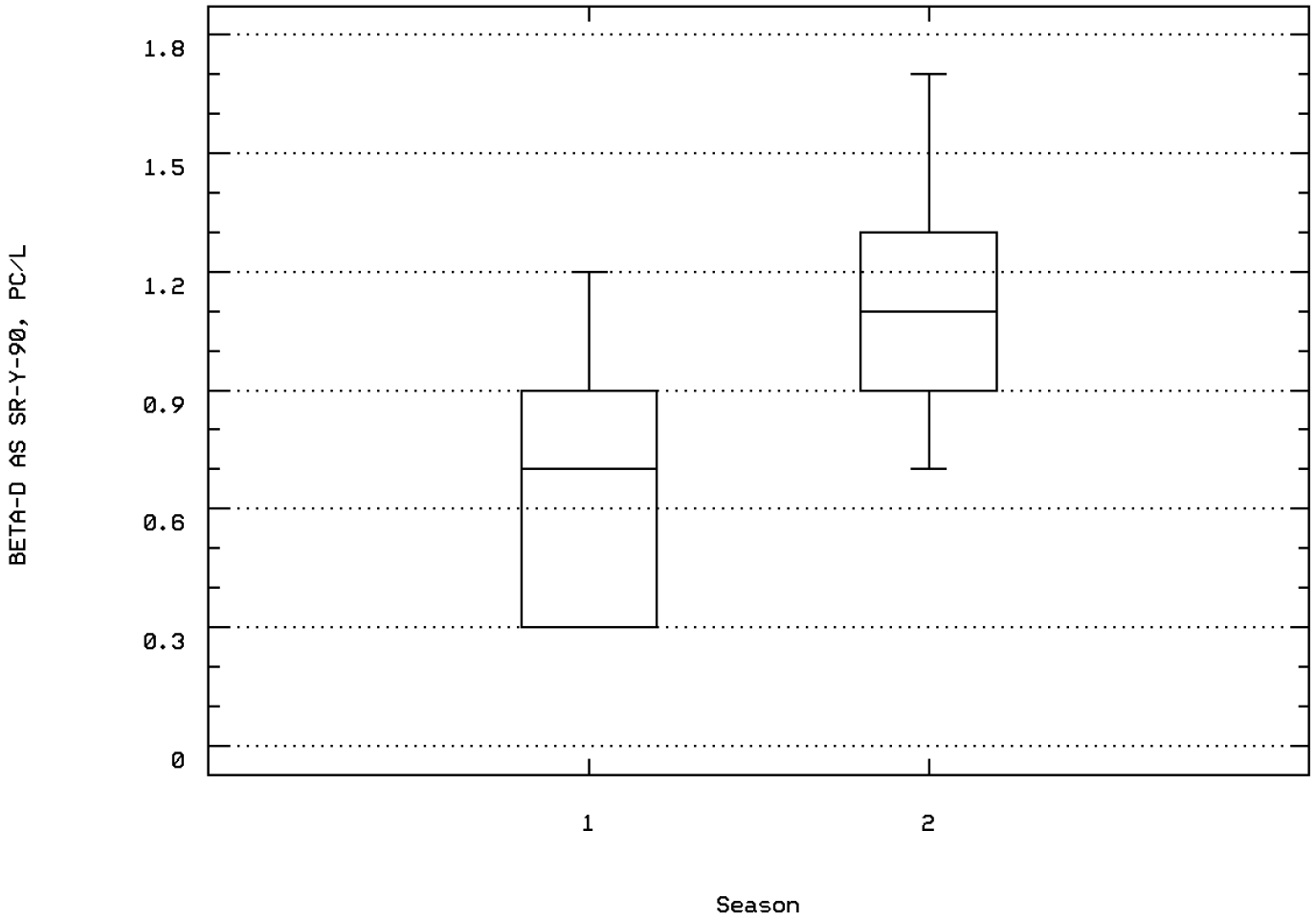
ALPHA,SUSPENDED GROSS, AS URANIUM-NATUR



LITTLE R. AB TOWNSEND

Station: GRSM0182 Parameter Code: 80050

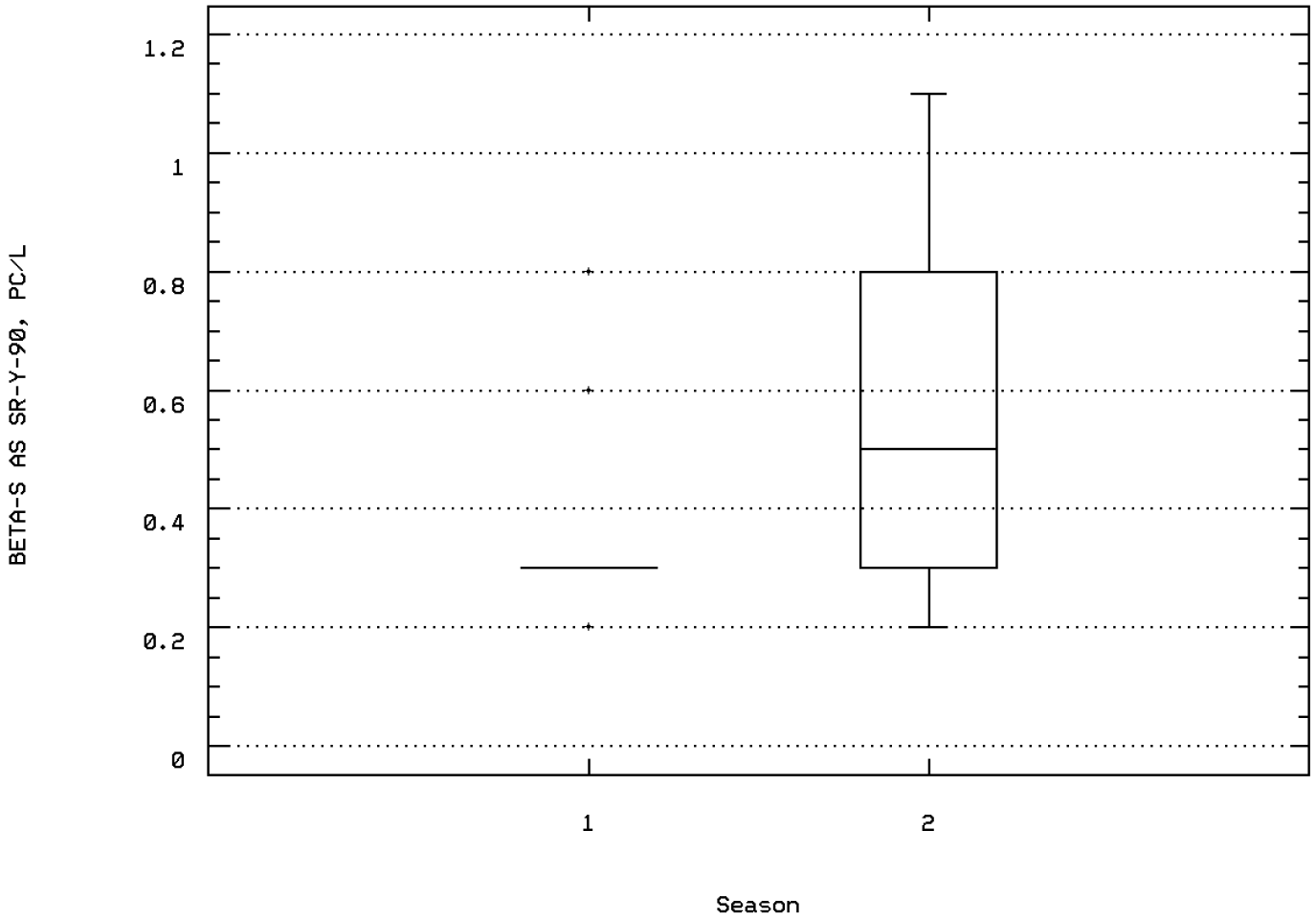
BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L



LITTLE R. AB TOWNSEND

Station: GRSM0182 Parameter Code: 80060

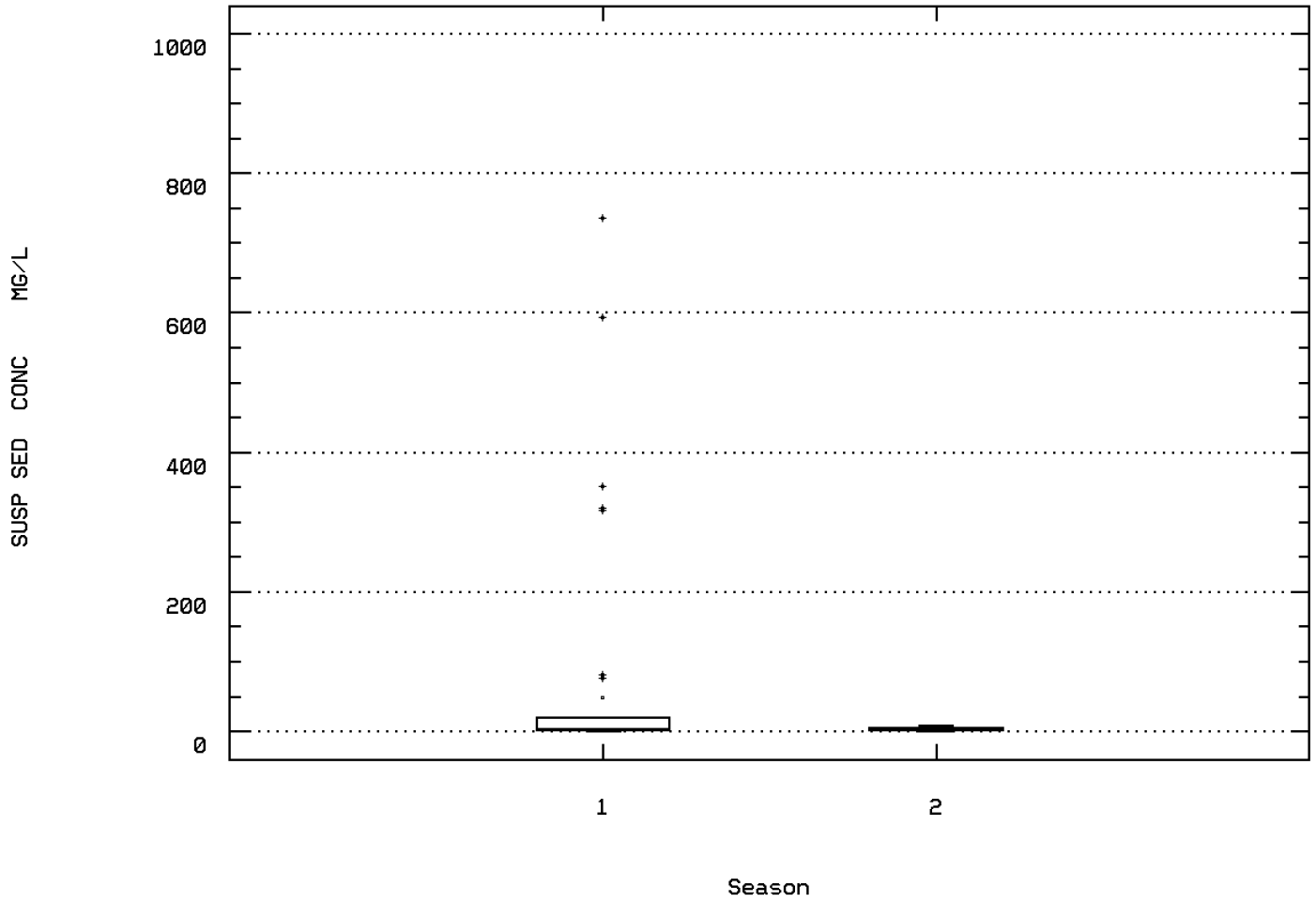
BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L



LITTLE R. AB TOWNSEND

Station: GRSM0182 Parameter Code: 80154

SUSP. SEDIMENT CONCENTRATION-EVAP. AT 1



LITTLE R. AB TOWNSEND

Station Inventory for Station: GRSM0183

NPS Station ID: GRSM0183
LAT/LON: 35.666115/ -83.634726
Agency: 112WRD
Date Created: 03/21/92
Location: LITTLE R BLW ELKMONT
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 353958083380500
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 0.50
On/Off RF1:
RF3 Index: 06010201003224.25
RF3 Mile Point: 24.95
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0183

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	10/29/91-10/29/91	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/29/91-10/29/91	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/29/91-10/29/91	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/29/91-10/29/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/29/91-10/29/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/29/91-10/29/91	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/91-10/29/91	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/91-10/29/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/91-10/29/91	1	0.66	0.66	0.66	0.66	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/29/91-10/29/91	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/29/91-10/29/91	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/29/91-10/29/91	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/29/91-10/29/91	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/29/91-10/29/91	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/91-10/29/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	10/29/91-10/29/91	1 ##	0.005	0.005	0.005	0.005	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: GRSM0183

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0184

NPS Station ID: GRSM0184 LAT/LON: 35.667226/ -83.072781 Agency: 112WRD Date Created: / /
Location: CATALOOCHEE CREEK NEAR CATALOOCHEE N C FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 03460000
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 06010106 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010106012 RF1 Mile Point: 3.180 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010106001402.37 RF3 Mile Point: 2.99 Distance from RF3: 0.02 On/Off RF3:
Description:
LOCATION: HAYWOOD CO, IN GT SMOKY MTS NATIONAL PARK. DRAINAGE AREA: 49.2 SQ MI.
STATION BEGAN: OCT. 1933 TO SEPT 1952, OCT 1962 TO CURRENT YEAR. GAGE: DATUM OF GAGE IS 2,456.88 FT ABOVE MEAN SEA LEVEL.
EPA PARTICIPATION BEGINNING MARCH 1974, NWQSS.

Parameter Inventory for Station: GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	229	10.5	9.973	19.	0.	24.606	4.96	3.	6.	14.	16.
00060	FLOW, STREAM, MEAN DAILY CFS	10/18/62-06/28/73	63	74.	104.27	1080.	23.	18343.394	135.438	35.8	54.	114.	168.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/73-05/11/93	215	89.	158.595	1610.	22.	55690.522	235.988	36.	49.	167.	298.8
00065	STAGE, STREAM (FEET)	05/12/86-05/11/93	29	2.53	2.624	3.97	2.04	0.244	0.494	2.14	2.275	2.805	3.37
00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/11/73-05/15/74	3	1.3	1.1	2.	0.	1.03	1.015	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/02/82-05/11/93	43	0.5	1.614	17.	0.2	11.404	3.377	0.3	0.4	1.1	2.8
00080	COLOR (PLATINUM-COBALT UNITS)	10/18/62-05/29/79	60	6.5	9.55	40.	0.	76.218	8.73	0.	5.	11.5	24.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/15/80-10/15/80	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	203	15.	15.453	35.	6.	15.239	3.904	12.	13.	17.	19.
00300p	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	205	10.2	10.56	16.	6.3	2.903	1.704	8.8	9.4	11.7	12.74
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/05/68-07/05/68	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	11/01/67-07/12/78	74	0.6	0.661	2.6	0.	0.184	0.429	0.2	0.4	1.	1.1
00335	COD, .025N K2CR2O7 MG/L	09/04/73-01/15/74	15 ##	12.5	13.667	30.	12.5	20.417	4.518	12.5	12.5	12.5	19.5
00340	COD, .25N K2CR2O7 MG/L	01/24/74-07/12/78	33 ##	12.5	12.288	46.	5.	63.235	7.952	5.	5.	12.5	18.2
00400p	PH (STANDARD UNITS)	10/18/62-05/11/93	236	6.7	6.729	9.	5.4	0.323	0.569	6.	6.3	7.1	7.43
00400p	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	236	6.7	6.404	9.	5.4	0.429	0.655	6.	6.3	7.1	7.43
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	236	0.2	0.394	3.981	0.001	0.326	0.571	0.037	0.079	0.501	1.
00403	PH, LAB, STANDARD UNITS SU	10/15/80-05/11/93	57	7.1	7.211	8.4	6.5	0.224	0.473	6.6	6.9	7.5	8.
00403	CONVERTED PH, LAB, STANDARD UNITS	10/15/80-05/11/93	57	7.1	7.01	8.4	6.5	0.265	0.515	6.6	6.9	7.5	8.
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/15/80-05/11/93	57	0.079	0.098	0.316	0.004	0.007	0.086	0.01	0.032	0.126	0.251
00405	CARBON DIOXIDE (MG/L AS CO2)	10/03/72-01/03/83	65	1.3	4.123	51.	0.1	63.391	7.962	0.26	0.75	4.	10.96
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	174	5.	5.437	19.	0.	4.93	2.22	3.	4.	6.	8.
00418	ALKALINITY,CARBONATE,INCREMENTAL TIT.USGS LAB MG/L	12/02/91-05/11/93	6	5.	5.	6.	4.	0.4	0.632	**	**	**	**
00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	11/17/86-09/14/87	4	4.5	4.75	6.	4.	0.757	0.87	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/18/62-12/07/88	105	6.	6.438	18.	2.	4.729	2.175	4.	5.	7.	8.
00445	CARBONATE ION (MG/L AS CO3)	11/01/67-01/03/83	71	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	11/17/86-09/14/87	4	5.5	5.8	7.3	4.9	1.087	1.042	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	12/07/87-05/11/93	23	5.	5.174	7.	2.	1.423	1.193	3.4	5.	6.	6.6
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/03/67-10/19/76	8	19.	19.75	28.	16.	12.5	3.536	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/03/67-10/19/76	12	1.5	19.292	210.	0.5	3609.839	60.082	0.5	0.5	4.5	148.5
00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	12/19/73-03/21/79	9	1.6	5.852	40.	0.	166.145	12.89	0.	0.395	3.58	40.

** - Less 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: GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00573	BIOMASS, PERIPHYTON,DRY WEIGHT TOTAL (G/M2)	12/19/73-03/21/79	9	3.4	7.11	42.	0.	175.537	13.249	0.	0.635	5.53	42.
00600	NITROGEN, TOTAL (MG/L AS N)	10/11/73-09/08/82	42	0.325	0.422	1.7	0.06	0.095	0.308	0.16	0.24	0.513	0.804
00602	NITROGEN, DISSOLVED (MG/L AS N)	01/30/79-09/08/82	12	0.485	0.483	0.75	0.11	0.049	0.222	0.128	0.315	0.723	0.75
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	11/07/73-02/11/86	40	0.115	0.225	1.5	0.	0.075	0.274	0.002	0.07	0.308	0.478
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	11/07/73-09/08/82	38	0.095	0.141	0.57	0.	0.022	0.147	0.	0.035	0.218	0.395
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	11/07/73-05/11/93	85	0.01	0.024	0.15	0.	0.001	0.028	0.005	0.005	0.04	0.06
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/07/73-11/17/92	72	0.01	0.016	0.1	0.	0.	0.02	0.005	0.005	0.02	0.03
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/18/85-05/11/93	31 ##	0.005	0.006	0.02	0.005	0.	0.003	0.005	0.005	0.005	0.005
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/17/73-11/17/92	29 ##	0.005	0.007	0.02	0.004	0.	0.003	0.005	0.005	0.009	0.01
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/07/71-10/31/91	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/03/72-05/29/79	21	0.14	0.16	0.46	0.02	0.011	0.105	0.06	0.105	0.175	0.384
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	10/11/73-08/20/91	42	0.105	0.164	0.6	0.01	0.023	0.152	0.04	0.05	0.255	0.4
00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	12/26/73-09/08/82	36	0.03	0.103	1.2	0.	0.054	0.232	0.	0.	0.09	0.297
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/11/73-05/11/93	88	0.165	0.273	1.9	0.03	0.099	0.315	0.05	0.1	0.308	0.61
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	03/05/74-09/01/76	4	368.	375.	700.	64.	124324.	352.596	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/11/73-11/17/92	61	0.17	0.186	0.63	0.	0.01	0.101	0.082	0.14	0.2	0.31
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/11/73-05/11/93	94	0.2	0.166	0.4	0.	0.005	0.071	0.065	0.1	0.2	0.2
00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	03/05/74-09/01/76	4	0.25	0.575	1.8	0.	0.723	0.85	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	11/01/67-05/29/79	7	0.	0.003	0.01	0.	0.	0.005	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/01/68-11/02/82	41	0.03	0.042	0.21	0.	0.003	0.051	0.	0.	0.06	0.114
00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/09/70-05/11/93	103	0.01	0.025	0.36	0.	0.002	0.044	0.005	0.005	0.02	0.046
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/11/73-05/11/93	84	0.01	0.014	0.06	0.005	0.	0.012	0.005	0.005	0.02	0.03
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	03/05/74-09/01/76	4	125.	121.5	150.	86.	849.	29.138	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/07/73-05/11/93	81	0.01	0.013	0.07	0.	0.	0.014	0.005	0.005	0.01	0.03
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/15/69-07/12/82	32	4.5	9.3	66.	0.5	178.283	13.352	1.35	2.35	8.05	26.5
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	10/11/73-09/08/82	37	3.5	5.424	28.	0.9	34.011	5.832	1.44	1.6	6.05	13.8
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	03/05/74-09/01/76	4	1.95	2.35	4.3	1.2	1.857	1.363	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	01/30/79-09/08/82	7	0.2	0.271	0.8	0.1	0.066	0.256	**	**	**	**
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	03/05/74-09/08/82	12	0.	0.002	0.005	0.	0.	0.002	0.	0.	0.005	0.005
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/18/62-02/11/86	83	4.	4.807	12.	2.	4.084	2.021	3.	4.	5.	7.6
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/18/62-02/11/86	83	0.	0.723	7.	0.	2.544	1.595	0.	0.	1.	3.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	10/18/62-05/11/93	123	1.1	1.189	3.6	0.2	0.306	0.553	0.8	0.9	1.3	1.8
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/18/62-05/11/93	123	0.3	0.367	1.1	0.1	0.028	0.167	0.2	0.3	0.4	0.5
00930p	SODIUM, DISSOLVED (MG/L AS NA)	10/18/62-05/11/93	123	1.1	1.132	2.	0.4	0.076	0.276	0.8	1.	1.3	1.5
00931	SODIUM ADSORPTION RATIO	11/01/67-02/11/86	72	0.2	0.239	0.4	0.1	0.007	0.081	0.1	0.2	0.3	0.3
00932	SODIUM, PERCENT	11/01/67-02/11/86	72	33.	31.958	54.	8.	98.266	9.913	17.3	26.25	37.75	44.7
00933	SODIUM,PLUS POTASSIUM (MG/L)	12/04/79-03/21/80	3	1.5	1.467	1.6	1.3	0.023	0.153	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	10/18/62-05/11/93	123	0.6	0.591	1.3	0.2	0.03	0.173	0.4	0.5	0.7	0.8
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/18/62-05/11/93	122	0.6	0.688	2.	0.	0.126	0.355	0.4	0.5	0.8	1.
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/18/62-05/11/93	124	1.	1.553	5.	0.	0.987	0.994	0.5	0.9	2.	3.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	10/18/62-05/11/93	123 ##	0.05	0.072	1.3	0.	0.015	0.122	0.	0.05	0.1	0.1
00955p	SILICA, DISSOLVED (MG/L AS SI02)	10/18/62-05/11/93	123	7.5	7.337	10.	1.	1.956	1.399	5.48	6.9	8.2	8.76
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/11/73-08/20/91	46 ##	0.5	1.348	11.	0.	6.421	2.534	0.35	0.5	1.	4.6
01001	ARSENIC, SUSPENDED (UG/L AS AS)	10/11/73-09/08/82	17	0.5	1.265	6.	0.	3.035	1.742	0.	0.5	1.	5.2
01002	ARSENIC, TOTAL (UG/L AS AS)	10/11/73-09/08/82	22	1.	2.795	11.	0.	12.278	3.504	0.15	0.5	4.	9.7
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	03/05/74-06/14/74	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/22/79-05/11/93	43	8.	9.233	40.	1.	33.611	5.798	6.	7.	10.	11.6
01006	BARIUM, SUSPENDED (UG/L AS BA)	10/22/79-01/20/82	4 ##	55.	51.25	90.	5.	2039.583	45.162	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	03/05/74-09/08/82	14 ##	50.	63.214	200.	10.	2386.951	48.856	17.5	25.	100.	150.
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/22/79-08/20/91	36 ##	0.25	0.318	0.7	0.25	0.02	0.141	0.25	0.25	0.25	0.56
01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/11/73-08/20/91	46 ##	0.5	0.891	4.	0.	0.821	0.906	0.5	0.5	1.	3.
01026	CADMIUM, SUSPENDED (UG/L AS CD)	10/11/73-01/20/82	15	0.	1.333	10.	0.	12.381	3.519	0.	0.	0.	10.
01027	CADMIUM, TOTAL (UG/L AS CD)	10/11/73-09/08/82	22 ##	0.	1.364	10.	0.	8.433	2.904	0.	0.	1.	7.9
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	03/05/74-06/14/74	2 ##	3.	3.	5.	1.	8.	2.828	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	03/05/74-09/01/76	4 ##	5.	6.25	10.	5.	6.25	2.5	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	12/12/68-08/20/91	63 ##	0.5	1.024	13.	0.	5.189	2.278	0.	0.	1.	2.
01031	CHROMIUM, SUSPEND (UG/L AS CR)	10/11/73-01/20/82	31	5.	7.242	20.	0.	45.215	6.724	0.	2.	10.	20.
01034	CHROMIUM, TOTAL (UG/L AS CR)	11/01/67-09/08/82	35 ##	10.	8.943	30.	0.	54.35	7.372	0.	2.	10.	20.
01035	COBALT, DISSOLVED (UG/L AS CO)	10/11/73-05/11/93	53 ##	1.5	1.462	9.	0.	1.354	1.164	0.	1.5	1.5	1.5
01036	COBALT, SUSPENDED (UG/L AS CO)	10/11/73-08/27/74	10	1.5	9.2	50.	0.	268.622	16.39	0.	0.	14.5	47.5
01037	COBALT, TOTAL (UG/L AS CO)	10/11/73-08/27/74	10 ##	3.	8.65	50.	0.	232.225	15.239	0.	0.	12.125	46.25
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	03/05/74-06/14/74	2 ##	15.	15.	25.	5.	200.	14.142	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	11/01/67-08/20/91	67 ##	1.	1.739	6.	0.	3.632	1.906	0.	0.	3.	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: GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01041	COPPER, SUSPENDED (UG/L AS CU)	10/11/73-03/21/80	29	2.	4.172	23.	0.	32.576	5.708	0.	0.	6.5	11.
01042	COPPER, TOTAL (UG/L AS CU)	10/11/73-09/08/82	34	3.5	4.676	23.	0.	27.619	5.255	0.	1.	6.25	11.
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	03/05/74-09/01/76	4 ##	5.	4.75	5.	4.	0.25	0.5	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	01/30/79-09/08/82	8	95.	204.125	600.	40.	42941.839	207.224	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/07/68-09/08/82	36	80.	145.112	610.	0.02	25674.621	160.233	19.1	50.	177.5	456.
01046	IRON, DISSOLVED (UG/L AS FE)	11/01/67-05/11/93	82	13.	20.585	200.	0.	777.622	27.886	5.	7.75	21.	37.3
01049	LEAD, DISSOLVED (UG/L AS PB)	11/01/67-08/20/91	66 ##	2.	3.159	27.	0.	28.017	5.293	0.	0.5	3.	6.
01050	LEAD, SUSPENDED (UG/L AS PB)	10/11/73-02/09/81	30	4.5	16.7	100.	0.	678.079	26.04	0.	1.5	25.	51.8
01051	LEAD, TOTAL (UG/L AS PB)	10/11/73-09/08/82	34	5.	18.059	100.	0.	609.633	24.691	0.5	3.	30.25	53.
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	03/05/74-09/01/76	4 ##	10.	18.75	50.	5.	439.583	20.966	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	03/05/74-06/14/74	2	115.	115.	120.	110.	50.	7.071	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	10/11/73-10/15/80	13	0.	4.692	30.	0.	78.897	8.882	0.	0.	9.	23.2
01055	MANGANESE, TOTAL (UG/L AS MN)	02/01/68-09/08/82	28	5.	7.429	30.	0.	44.698	6.686	0.	5.	10.	17.3
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/21/69-05/11/93	56	1.	2.786	25.	0.	20.599	4.539	0.5	0.5	2.	5.
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/22/79-05/11/93	43 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01065	NICKEL, DISSOLVED (UG/L AS NI)	11/01/67-05/11/93	40 ##	0.5	1.225	6.	0.	1.935	1.391	0.5	0.5	2.	3.9
01075	SILVER, DISSOLVED (UG/L AS AG)	10/22/79-05/11/93	43 ##	0.5	0.465	1.	0.	0.04	0.201	0.	0.5	0.5	0.5
01076	SILVER, SUSPENDED (UG/L AS AG)	10/22/79-06/23/81	5	0.	0.	0.	0.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	05/07/74-09/08/82	13 ##	0.	0.308	3.	0.	0.689	0.83	0.	0.	0.25	2.
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	02/01/68-05/11/93	47	9.	9.787	60.	0.	70.562	8.4	6.8	8.	10.	11.
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/22/79-05/11/93	43 ##	3.	3.	3.	3.	0.	0.	3.	3.	3.	3.
01090	ZINC, DISSOLVED (UG/L AS ZN)	11/01/67-08/20/91	66 ##	2.	4.318	40.	0.	36.825	6.068	0.	0.015	6.	10.
01091	ZINC, SUSPENDED (UG/L ZN)	10/11/73-03/21/80	28	10.	12.714	40.	0.	155.915	12.487	0.	0.	20.	30.
01092	ZINC, TOTAL (UG/L AS ZN)	10/11/73-09/08/82	33	20.	17.606	50.	0.	172.246	13.124	0.	10.	25.	40.
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	03/05/74-09/01/76	4	22.	23.5	30.	20.	22.333	4.726	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	02/01/68-07/06/70	7	0.	42.857	100.	0.	2857.143	53.452	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/21/69-05/11/93	38	20.	23.684	100.	5.	494.168	22.23	5.	5.	30.	60.
01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/01/67-05/11/93	46 ##	2.	2.696	15.	0.	5.728	2.393	2.	2.	2.	5.3
01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/22/79-05/11/93	43 ##	0.5	0.442	0.5	0.	0.026	0.162	0.	0.5	0.5	0.5
01146	SELENIUM, SUSPENDED (UG/L AS SE)	10/22/79-06/23/81	5	0.	0.	0.	0.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	06/18/75-09/08/82	12 ##	0.5	0.292	0.5	0.	0.066	0.257	0.	0.	0.5	0.5
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	03/05/74-09/01/76	4	7350.	7675.	12000.	4000.	11689166.667	3418.942	**	**	**	**
01515	ALPHA, DISSOLVED GROSS, AS URANIUM-NATURAL, PC/L	10/03/67-09/08/82	5 ##	0.15	0.33	0.9	0.05	0.136	0.368	**	**	**	**
01516	ALPHA, SUSPEND GROSS, AS URANIUM NATURAL, PC/L	10/03/67-10/15/80	4 ##	0.1	0.1	0.15	0.05	0.003	0.058	**	**	**	**
03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	10/03/67-03/30/93	26	0.9	0.965	3.4	0.2	0.374	0.611	0.41	0.6	1.125	1.6
03516	BETA, SUSPENDED GROSS, AS CS-137, PC/L	10/03/67-03/30/93	26 ##	0.25	1.	17.	0.2	10.726	3.275	0.2	0.2	0.35	1.06
04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	08/17/92-03/30/93	2 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
04127	ALPHA, SUSPENDED, DRY WEIGHT,SED (AS TH-230) PCI/L	08/17/92-03/30/93	2 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
09510	RADIUM 226, DISSOLVED, PLANCHET COUNT	10/03/72-10/03/72	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
09511	RADIUM 226, DISSOLVED, RADON METHOD	10/03/67-03/30/93	25	0.04	0.039	0.07	0.01	0.	0.017	0.016	0.03	0.05	0.064
22703	URANIUM, NATURAL, DISSOLVED	12/07/87-03/30/93	11 ##	0.005	0.018	0.06	0.005	0.	0.02	0.005	0.005	0.025	0.058
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/14/69-10/15/80	38	17.	66.026	900.	0.	22816.188	151.05	1.	3.	67.75	190.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/14/69-10/15/80	38	1.23	1.231	2.954	0.	0.585	0.765	0.	0.477	1.828	2.279
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			17.041								
31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	11/01/67-12/12/68	6	24.	22.667	38.	4.	151.467	12.307	**	**	**	**
31503	LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	11/01/67-12/12/68	6	1.366	1.266	1.58	0.602	0.126	0.356	**	**	**	**
31503	GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =			18.446								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/07/71-07/12/78	67 ##	5.	205.567	12000.	0.5	2150712.545	1466.531	5.	5.	18.	32.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/07/71-07/12/78	67 ##	0.699	0.964	4.079	-0.301	0.389	0.624	0.699	0.699	1.255	1.502
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			9.211								
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	10/19/76-05/11/93	72	3.5	16.681	320.	0.5	2201.84	46.924	0.5	1.	11.	26.5
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	10/19/76-05/11/93	72	0.54	0.597	2.505	-0.301	0.454	0.674	-0.301	0.	1.041	1.422
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			3.953								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/05/74-05/11/93	71	550.	1208.415	13000.	0.5	4221023.128	2054.513	9.2	100.	1300.	3660.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/05/74-05/11/93	71	2.74	2.49	4.114	-0.301	0.886	0.941	0.952	2.	3.114	3.563
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			309.216								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	05/07/74-09/01/76	7	12.	24.714	70.	1.	861.238	29.347	**	**	**	**
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	05/07/74-09/01/76	7	1.079	1.004	1.845	0.	0.505	0.711	**	**	**	**
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			10.081								
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	11/17/70-05/29/79	37	0.	0.015	0.12	0.	0.001	0.034	0.	0.	0.	0.092
39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	11/29/78-09/08/82	4	0.	0.013	0.05	0.	0.001	0.025	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	12/07/87-05/11/93	23	4.	4.304	6.	2.	1.04	1.02	2.4	4.	5.	5.6
39250	NAPTHALENES, POLYCHLORINATED (UG/L)	10/19/76-09/08/82	6	0.	0.008	0.05	0.	0.	0.02	**	**	**	**

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

Parameter Inventory for Station: GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	10/15/80-09/08/82	2 ##	0.25	0.25	0.5	0.	0.125	0.354	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/03/67-09/08/82	13	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.003
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/13/70-09/08/82	10	0.	0.025	0.1	0.	0.002	0.042	0.	0.	0.063	0.1
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	04/15/69-09/08/82	11	0.	0.	0.005	0.	0.	0.002	0.	0.	0.	0.004
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	10/13/70-09/08/82	10	0.	0.035	0.1	0.	0.002	0.047	0.	0.	0.1	0.1
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	10/13/70-09/08/82	10	0.	0.005	0.05	0.	0.	0.016	0.	0.	0.	0.045
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	10/13/70-09/08/82	10	0.	0.15	0.5	0.	0.058	0.242	0.	0.	0.5	0.5
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	10/03/67-09/08/82	13	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.003
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/13/70-09/08/82	10	0.	0.025	0.1	0.	0.002	0.042	0.	0.	0.063	0.1
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	10/03/67-09/08/82	13	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.003
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/13/70-09/08/82	10	0.	0.15	0.7	0.	0.072	0.268	0.	0.	0.225	0.69
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	10/03/67-09/08/82	13	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.003
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/13/70-09/08/82	10	0.	0.025	0.1	0.	0.002	0.042	0.	0.	0.063	0.1
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/03/67-09/08/82	13	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.003
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	10/13/70-09/08/82	10	0.	0.025	0.1	0.	0.002	0.042	0.	0.	0.063	0.1
39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	09/08/78-09/08/82	5	0.	0.001	0.005	0.	0.	0.002	**	**	**	**
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/15/80-09/08/82	2 ##	0.025	0.025	0.05	0.	0.001	0.035	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	10/03/67-09/08/82	13	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.003
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/13/70-09/08/82	10	0.	0.025	0.1	0.	0.002	0.042	0.	0.	0.063	0.1
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	10/02/75-09/08/82	6	0.	0.001	0.005	0.	0.	0.002	**	**	**	**
39399	ETHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	09/08/78-11/29/78	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/02/75-09/08/82	7	0.	0.071	0.5	0.	0.036	0.189	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	10/02/75-09/08/82	7	0.	0.714	5.	0.	3.571	1.89	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	10/03/67-09/08/82	13	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.003
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	10/13/70-09/08/82	10	0.	0.025	0.1	0.	0.002	0.042	0.	0.	0.063	0.1
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/03/67-09/08/82	12	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.004
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	10/13/70-09/08/82	10	0.	0.025	0.1	0.	0.002	0.042	0.	0.	0.063	0.1
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	09/08/78-09/08/82	5	0.	0.001	0.005	0.	0.	0.002	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	10/19/76-09/08/82	6	0.	0.008	0.05	0.	0.	0.02	**	**	**	**
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	10/11/73-09/08/82	8	0.	0.006	0.05	0.	0.	0.018	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/11/73-09/08/82	8	0.	1.188	6.	0.	4.853	2.203	**	**	**	**
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	10/13/70-09/08/82	9	0.	0.001	0.005	0.	0.	0.002	0.	0.	0.	0.005
39531	MALATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/13/70-11/29/78	3	0.	0.033	0.1	0.	0.003	0.058	**	**	**	**
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	10/13/70-09/08/82	9	0.	0.001	0.005	0.	0.	0.002	0.	0.	0.	0.005
39541	PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/13/70-11/29/78	3	0.	0.033	0.1	0.	0.003	0.058	**	**	**	**
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	10/13/70-09/08/82	9	0.	0.001	0.005	0.	0.	0.002	0.	0.	0.	0.005
39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/13/70-11/29/78	3	0.	0.033	0.1	0.	0.003	0.058	**	**	**	**
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	10/13/70-09/08/82	9	0.	0.001	0.005	0.	0.	0.002	0.	0.	0.	0.005
39601	METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	10/13/70-11/29/78	3	0.	0.033	0.1	0.	0.003	0.058	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	06/13/68-09/08/82	10	0.	0.001	0.005	0.	0.	0.002	0.	0.	0.	0.005
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	06/13/68-09/08/82	10	0.	0.001	0.005	0.	0.	0.002	0.	0.	0.	0.005
39755	MIREX, TOTAL (UG/L)	09/08/78-09/08/82	5	0.	0.001	0.005	0.	0.	0.002	**	**	**	**
39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	10/15/80-09/08/82	2 ##	0.025	0.025	0.05	0.	0.001	0.035	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	06/13/68-09/08/82	10	0.	0.001	0.005	0.	0.	0.002	0.	0.	0.	0.005
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	10/02/75-09/08/82	6	0.	0.001	0.005	0.	0.	0.002	**	**	**	**
39787	TRITHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	09/08/78-11/29/78	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	10/02/75-09/08/82	6	0.	0.001	0.005	0.	0.	0.002	**	**	**	**
39791	METHYL TRITHION IN BOT DEPOS (UG/KG DRY SOLIDS)	09/08/78-11/29/78	2	0.	0.	0.	0.	0.	0.	**	**	**	**
60050	ALGAE, TOTAL (CELLS/ML)	04/12/74-03/21/79	9	340.	400.667	1600.	72.	222855.75	472.076	72.	77.	415.	1600.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/18/62-05/11/93	121	17.	18.752	44.	5.	47.855	6.918	12.	15.	21.	26.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/01/67-02/11/86	69	16.	16.493	23.	12.	6.048	2.459	13.	15.	18.	20.
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/01/67-01/03/83	71	4.14	9.674	67.9	1.19	233.799	15.29	1.856	2.51	7.69	26.22
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/01/67-01/03/83	71	0.02	0.027	0.06	0.01	0.	0.01	0.02	0.02	0.03	0.04
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/17/77-03/30/93	98	58.5	59.153	100.	0.	740.317	27.209	24.5	43.	77.5	100.
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/07/73-11/17/92	41	0.01	0.014	0.1	0.005	0.	0.017	0.005	0.005	0.01	0.03
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	05/29/79-02/09/81	3	0.	0.003	0.01	0.	0.	0.006	**	**	**	**
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	11/07/73-02/11/86	46	0.01	0.024	0.13	0.	0.001	0.031	0.	0.	0.043	0.06
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/18/62-08/02/71	24	0.4	0.525	2.7	0.	0.279	0.529	0.05	0.3	0.6	0.95
71870	BROMIDE (MG/L AS BR)	10/31/91-10/31/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
71885	IRON (UG/L AS FE)	10/18/62-09/06/63	11	20.	14.545	30.	0.	87.273	9.342	0.	10.	20.	28.
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	01/26/78-11/18/85	31	0.06	0.082	0.4	0.	0.009	0.097	0.	0.03	0.09	0.23
71887	NITROGEN, TOTAL, AS NO3 - MG/L	10/11/73-09/08/82	42	1.45	1.888	7.6	0.3	1.916	1.384	0.7	1.1	2.3	3.55
71890	MERCURY, DISSOLVED (UG/L AS HG)	10/11/73-08/20/91	43 ##	0.05	0.116	0.4	0.05	0.01	0.1	0.05	0.05	0.25	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 time series plot

Parameter Inventory for Station: GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71895	MERCURY, SUSPENDED (UG/L AS HG)	10/11/73-03/21/80	12	0.	0.058	0.3	0.	0.008	0.09	0.	0.	0.1	0.24
71900	MERCURY, TOTAL (UG/L AS HG)	10/11/73-09/08/82	22 ##	0.25	0.205	0.4	0.05	0.01	0.097	0.05	0.088	0.25	0.25
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	03/05/74-06/14/74	2	0.01	0.01	0.02	0.	0.	0.014	**	**	**	**
75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	06/20/89-03/30/93	8	0.295	0.315	0.7	0.19	0.026	0.162	**	**	**	**
75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	06/20/89-03/30/93	8 ##	0.3	0.481	2.3	0.03	0.55	0.742	**	**	**	**
75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	06/20/89-03/30/93	8	0.43	0.44	0.5	0.4	0.002	0.044	**	**	**	**
75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	06/20/89-03/30/93	8	0.5	0.488	0.56	0.4	0.002	0.048	**	**	**	**
75990	URANIUM,NATURAL,1 SIGMA PRC EST,DISS,WATER UG/L	05/21/90-03/30/93	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
76001	RADIUM 226,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	05/21/90-03/30/93	6	0.01	0.008	0.01	0.	0.	0.004	**	**	**	**
76004	ALPHA GROSS,SUSP,1 SIGMA PRC EST AS TH230,WTR PC/L	06/20/89-03/30/93	8	0.28	0.265	0.62	0.	0.033	0.18	**	**	**	**
76005	BETA GROSS,SUSP,1 SIGMA PRC EST AS SR90/Y90 PC/L	06/20/89-03/30/93	8	0.495	0.468	0.6	0.3	0.012	0.111	**	**	**	**
80020	URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD	10/03/67-06/08/87	15	0.01	0.026	0.14	0.005	0.001	0.037	0.005	0.005	0.03	0.104
80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	10/03/67-03/30/93	26 ##	0.3	0.421	2.1	0.2	0.183	0.428	0.2	0.2	0.413	0.95
80040	ALPHA,SUSPENDED GROSS, AS URANIUM-NATURAL, UG/L	10/03/67-03/30/93	26 ##	0.2	1.094	21.	0.2	16.544	4.067	0.2	0.2	0.3	1.02
80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	10/03/67-03/30/93	26	0.8	0.869	2.9	0.2	0.269	0.519	0.27	0.575	1.1	1.33
80060	BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L	10/03/67-03/30/93	26 ##	0.25	0.835	13.	0.2	6.218	2.494	0.2	0.2	0.35	1.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/73-05/11/93	150	3.	11.687	383.	0.	1705.519	41.298	1.	2.	6.	16.8
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/11/73-09/08/82	101	0.72	31.255	1670.	0.	33699.675	183.575	0.112	0.3	2.	15.8
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	10/15/80-09/08/82	2 ##	0.25	0.25	0.5	0.	0.125	0.354	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	02/09/81-08/31/81	5	0.4	0.38	0.4	0.3	0.002	0.045	**	**	**	**
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	10/15/80-09/08/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRSM0184

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	3	0	0.00	2	0	0.00	1	0	0.00						
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	43	0	0.00	22	0	0.00	21	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	205	0	0.00	108	0	0.00	97	0	0.00						
00400	PH	Other-Hi Lim.	9.	236	1	0.00	124	0	0.00	112	1	0.01						
		Other-Lo Lim.	6.5	236	95	0.40	124	57	0.46	112	38	0.34						
00403	PH, LAB	Other-Hi Lim.	9.	57	0	0.00	29	0	0.00	28	0	0.00						
		Other-Lo Lim.	6.5	57	3	0.05	29	2	0.07	28	1	0.04						
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	31	0	0.00	16	0	0.00	15	0	0.00						
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	29	0	0.00	13	0	0.00	16	0	0.00						
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	2	0	0.00									
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	21	0	0.00	9	0	0.00	12	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	61	0	0.00	35	0	0.00	26	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	94	0	0.00	51	0	0.00	43	0	0.00						
00720	CYANIDE, TOTAL	Fresh Acute	0.022	12	0	0.00	7	0	0.00	5	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	122	0	0.00	63	0	0.00	59	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	124	0	0.00	65	0	0.00	59	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	46	0	0.00	26	0	0.00	20	0	0.00						
		Drinking Water	50.	46	0	0.00	26	0	0.00	20	0	0.00						
01001	ARSENIC, SUSPENDED	Fresh Acute	360.	17	0	0.00	12	0	0.00	5	0	0.00						
		Drinking Water	50.	17	0	0.00	12	0	0.00	5	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	22	0	0.00	15	0	0.00	7	0	0.00						
		Drinking Water	50.	22	0	0.00	15	0	0.00	7	0	0.00						
01005	BARIUM, DISSOLVED	Drinking Water	2000.	43	0	0.00	23	0	0.00	20	0	0.00						
01006	BARIUM, SUSPENDED	Drinking Water	2000.	4	0	0.00	4	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	14	0	0.00	9	0	0.00	5	0	0.00						
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	36	0	0.00	19	0	0.00	17	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	46	1	0.02	26	1	0.04	20	0	0.00						
		Drinking Water	5.	46	0	0.00	26	0	0.00	20	0	0.00						
01026	CADMIUM, SUSPENDED	Fresh Acute	3.9	15	2	0.13	11	2	0.18	4	0	0.00						
		Drinking Water	5.	15	2	0.13	11	2	0.18	4	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	20 &	0	0.00	13	0	0.00	7	0	0.00						
		Drinking Water	5.	20 &	0	0.00	13	0	0.00	7	0	0.00						

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

EPA Water Quality Criteria Analysis for Station: GRSM0184

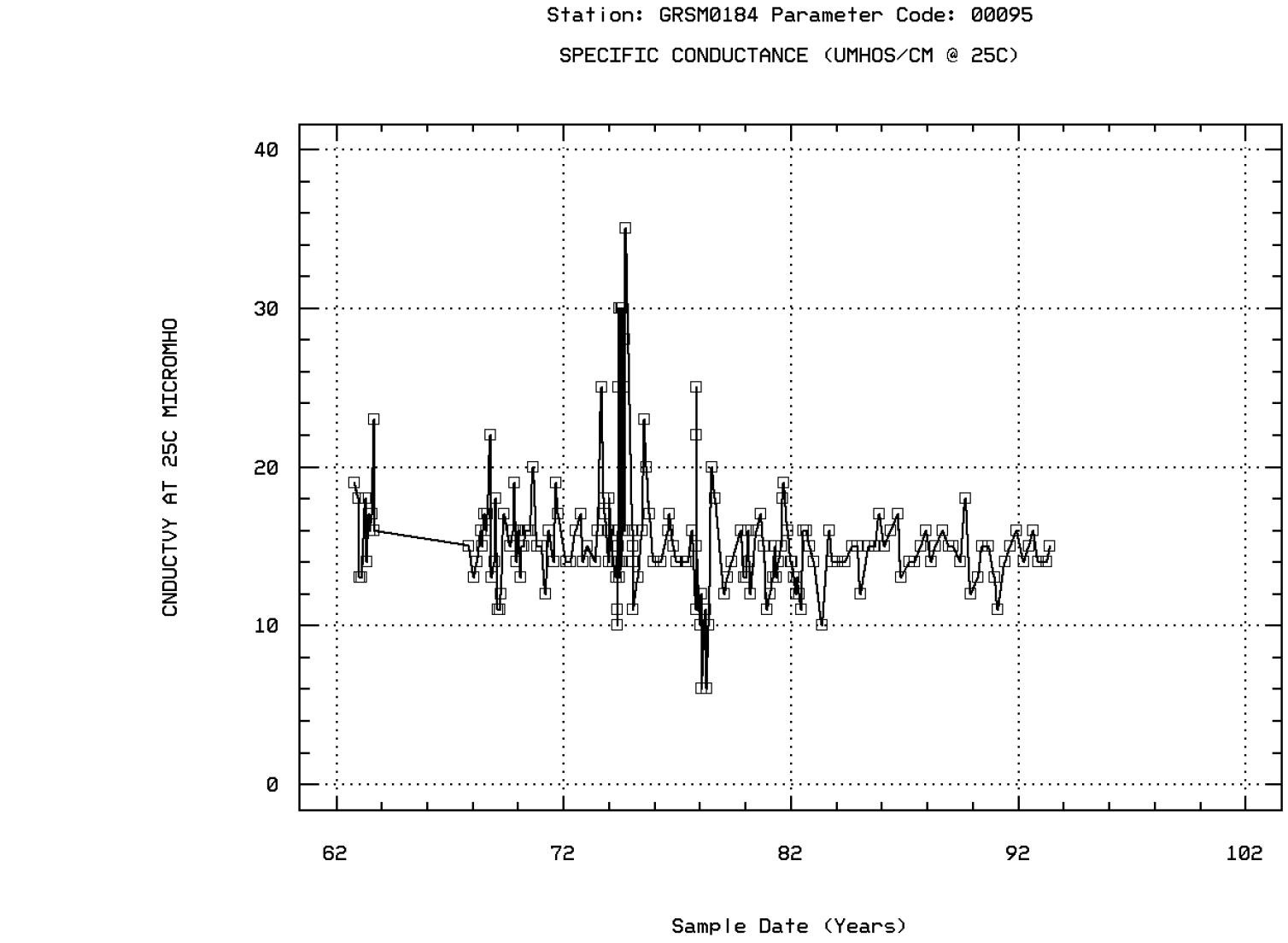
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	63	0	0.00	35	0	0.00	28	0	0.00						
01031	CHROMIUM, SUSPENDED	Drinking Water	100.	31	0	0.00	20	0	0.00	11	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	35	0	0.00	22	0	0.00	13	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	67	0	0.00	38	0	0.00	29	0	0.00						
		Drinking Water	1300.	67	0	0.00	38	0	0.00	29	0	0.00						
01041	COPPER, SUSPENDED	Fresh Acute	18.	29	1	0.03	17	0	0.00	12	1	0.08						
		Drinking Water	1300.	29	0	0.00	17	0	0.00	12	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	34	1	0.03	20	0	0.00	14	1	0.07						
		Drinking Water	1300.	34	0	0.00	20	0	0.00	14	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	66	0	0.00	38	0	0.00	28	0	0.00						
		Drinking Water	5.	61 &	10	0.16	34	6	0.18	27	4	0.15						
01050	LEAD, SUSPENDED	Fresh Acute	82.	30	2	0.07	18	1	0.06	12	1	0.08						
		Drinking Water	5.	30	15	0.50	18	10	0.56	12	5	0.42						
01051	LEAD, TOTAL	Fresh Acute	82.	33 &	1	0.03	19	0	0.00	14	1	0.07						
		Drinking Water	5.	32 &	18	0.56	18	10	0.56	14	8	0.57						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	40	0	0.00	22	0	0.00	18	0	0.00						
		Drinking Water	100.	40	0	0.00	22	0	0.00	18	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	43	0	0.00	23	0	0.00	20	0	0.00						
		Drinking Water	50.	43	0	0.00	23	0	0.00	20	0	0.00						
01076	SILVER, SUSPENDED	Fresh Acute	4.1	5	0	0.00	4	0	0.00	1	0	0.00						
		Drinking Water	50.	5	0	0.00	4	0	0.00	1	0	0.00						
01077	SILVER, TOTAL	Fresh Acute	4.1	13	0	0.00	8	0	0.00	5	0	0.00						
		Drinking Water	50.	13	0	0.00	8	0	0.00	5	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	66	0	0.00	37	0	0.00	29	0	0.00						
01091	ZINC, SUSPENDED	Fresh Acute	120.	28	0	0.00	16	0	0.00	12	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	33	0	0.00	19	0	0.00	14	0	0.00						
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	43	0	0.00	23	0	0.00	20	0	0.00						
		Drinking Water	50.	43	0	0.00	23	0	0.00	20	0	0.00						
01146	SELENIUM, SUSPENDED	Fresh Acute	20.	5	0	0.00	4	0	0.00	1	0	0.00						
		Drinking Water	50.	5	0	0.00	4	0	0.00	1	0	0.00						
01147	SELENIUM, TOTAL	Fresh Acute	20.	12	0	0.00	8	0	0.00	4	0	0.00						
		Drinking Water	50.	12	0	0.00	8	0	0.00	4	0	0.00						
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	11	0	0.00	6	0	0.00	5	0	0.00						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	38	0	0.00	18	0	0.00	20	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	67	2	0.03	27	0	0.00	40	2	0.05						
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	72	2	0.03	37	0	0.00	35	2	0.06						
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	13	0	0.00	8	0	0.00	5	0	0.00						
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	11	0	0.00	7	0	0.00	4	0	0.00						
		Drinking Water	0.2	11	0	0.00	7	0	0.00	4	0	0.00						
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	10	0	0.00	7	0	0.00	3	0	0.00						
		Drinking Water	2.	10	0	0.00	7	0	0.00	3	0	0.00						
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	13	0	0.00	8	0	0.00	5	0	0.00						
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	13	0	0.00	8	0	0.00	5	0	0.00						
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	13	0	0.00	8	0	0.00	5	0	0.00						
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	13	0	0.00	8	0	0.00	5	0	0.00						
39388	ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute	0.22	5	0	0.00	3	0	0.00	2	0	0.00						
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	13	0	0.00	8	0	0.00	5	0	0.00						
		Drinking Water	0.2	13	0	0.00	8	0	0.00	5	0	0.00						
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	7	0	0.00	5	0	0.00	2	0	0.00						
		Drinking Water	3.	7	0	0.00	5	0	0.00	2	0	0.00						
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	13	0	0.00	8	0	0.00	5	0	0.00						
		Drinking Water	0.4	13	0	0.00	8	0	0.00	5	0	0.00						
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	12	0	0.00	8	0	0.00	4	0	0.00						
		Drinking Water	0.2	12	0	0.00	8	0	0.00	4	0	0.00						
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	5	0	0.00	3	0	0.00	2	0	0.00						
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	9	0	0.00	6	0	0.00	3	0	0.00						
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	10	0	0.00	6	0	0.00	4	0	0.00						
39760	SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	10	0	0.00	6	0	0.00	4	0	0.00						

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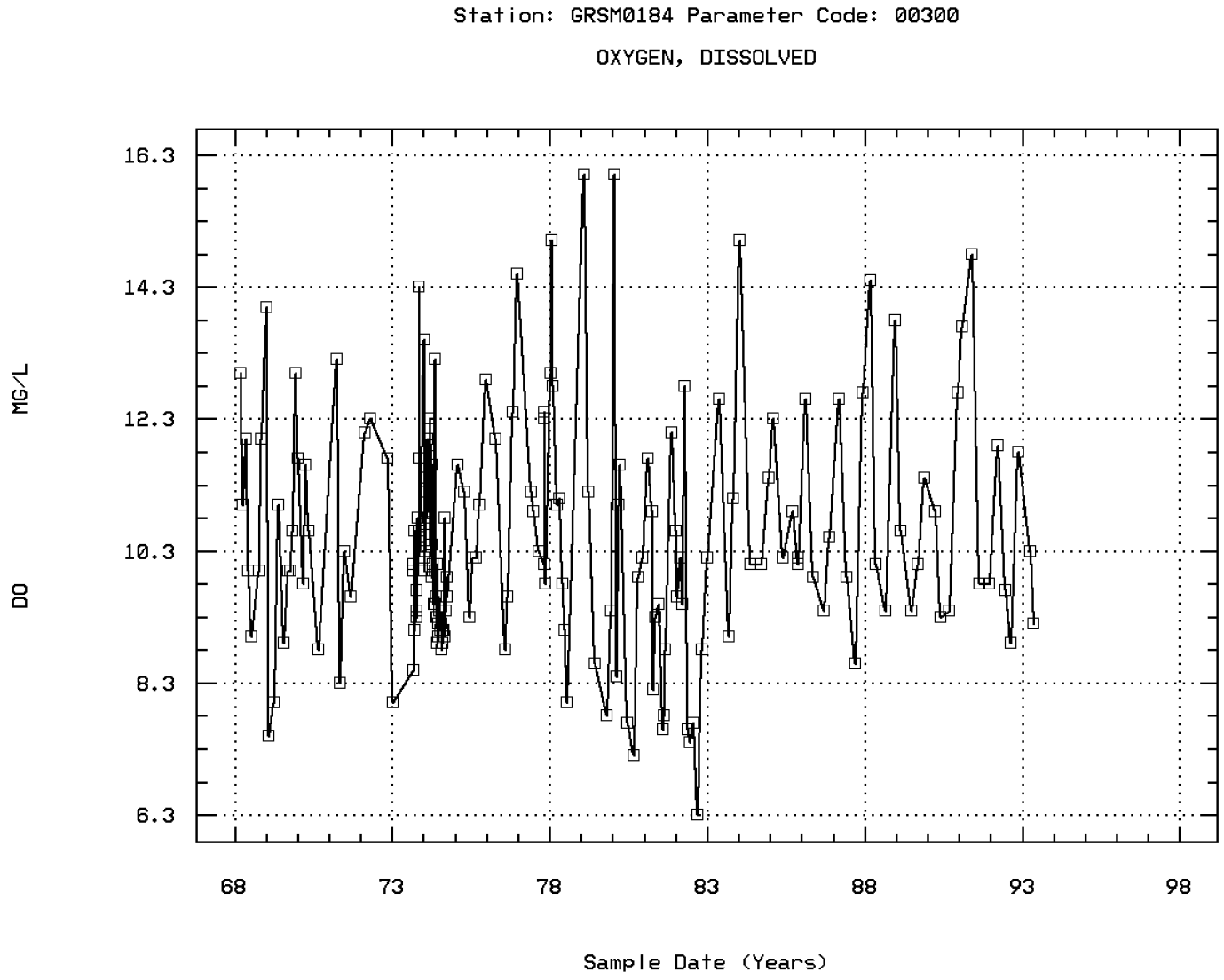
EPA Water Quality Criteria Analysis for Station: GRSM0184

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	24	0	0.00	10	0	0.00	14	0	0.00						
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	43	0	0.00	25	0	0.00	18	0	0.00						
		Drinking Water	2.	43	0	0.00	25	0	0.00	18	0	0.00						
71895	MERCURY, SUSPENDED	Fresh Acute	2.4	12	0	0.00	9	0	0.00	3	0	0.00						
		Drinking Water	2.	12	0	0.00	9	0	0.00	3	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	22	0	0.00	15	0	0.00	7	0	0.00						
		Drinking Water	2.	22	0	0.00	15	0	0.00	7	0	0.00						
80020	URANIUM, DISS. BY EXTRACTION FLUOROMETRI	Drinking Water	20.	15	0	0.00	8	0	0.00	7	0	0.00						

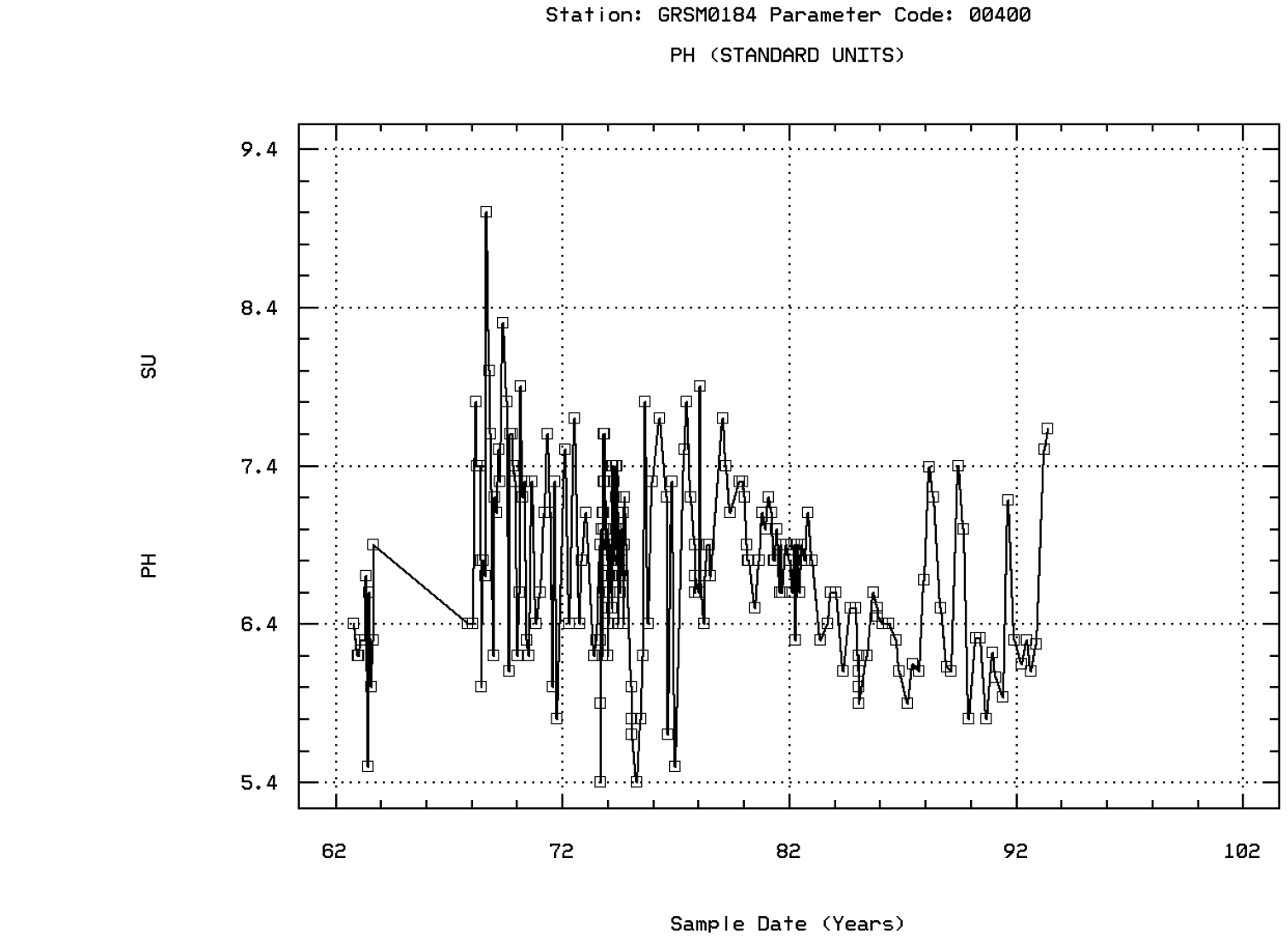
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter



CATALOOCHEE CREEK NEAR CATALOOCHEE N C



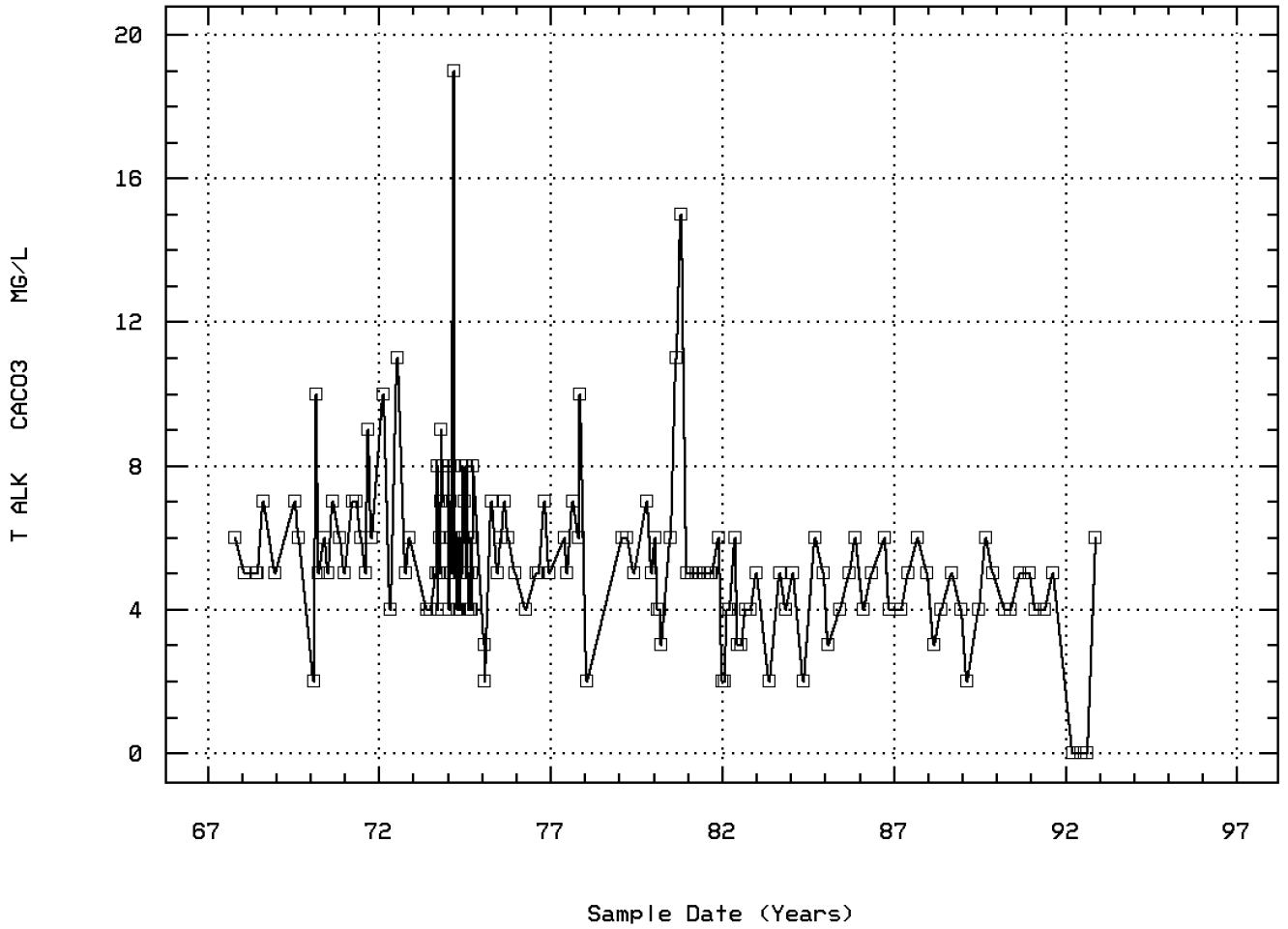
CATALOOCHEE CREEK NEAR CATALOOCHEE N C



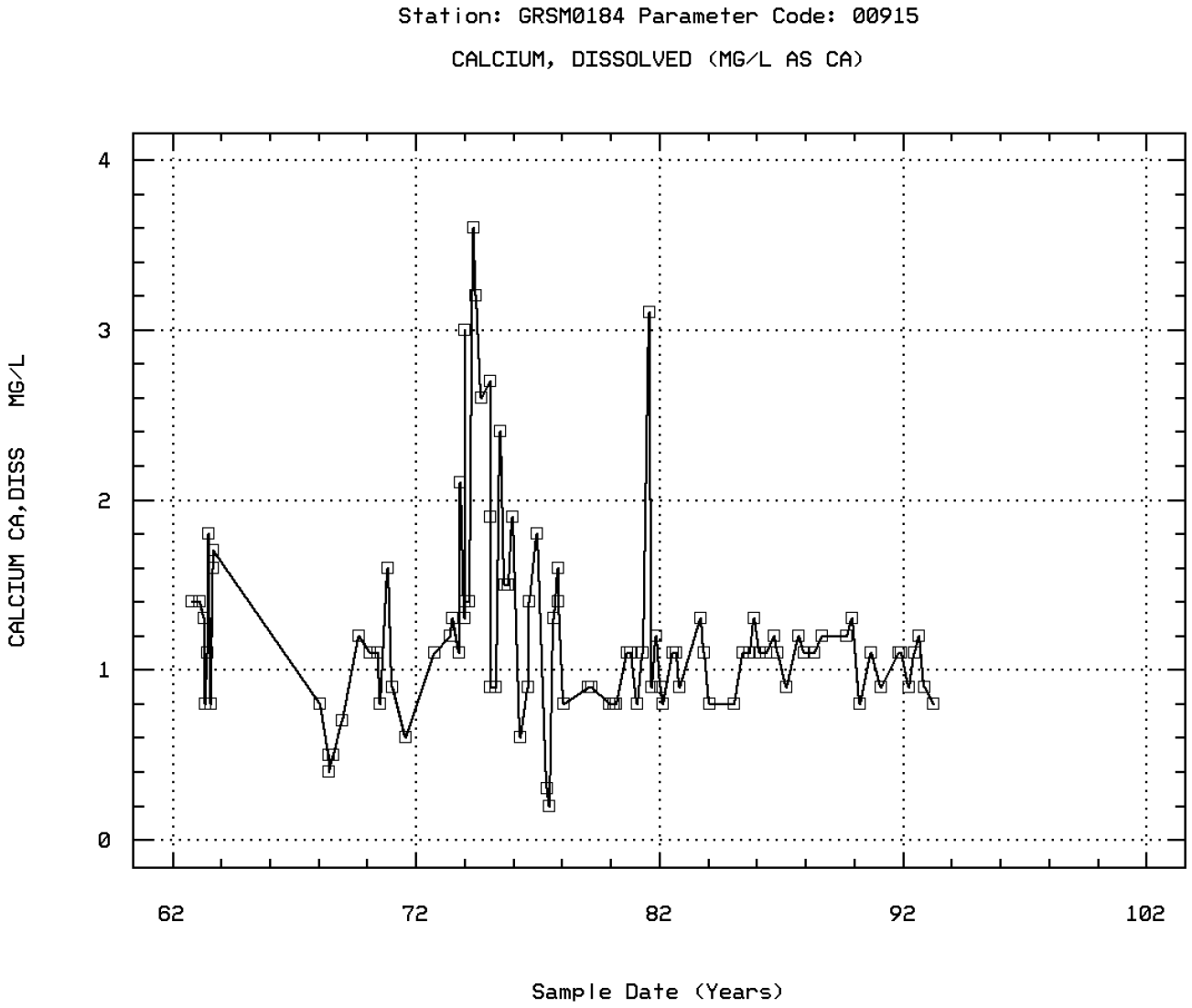
CATALOOCHEE CREEK NEAR CATALOOCHEE N C

Station: GRSM0184 Parameter Code: 00410

ALKALINITY, TOTAL (MG/L AS CACO3)



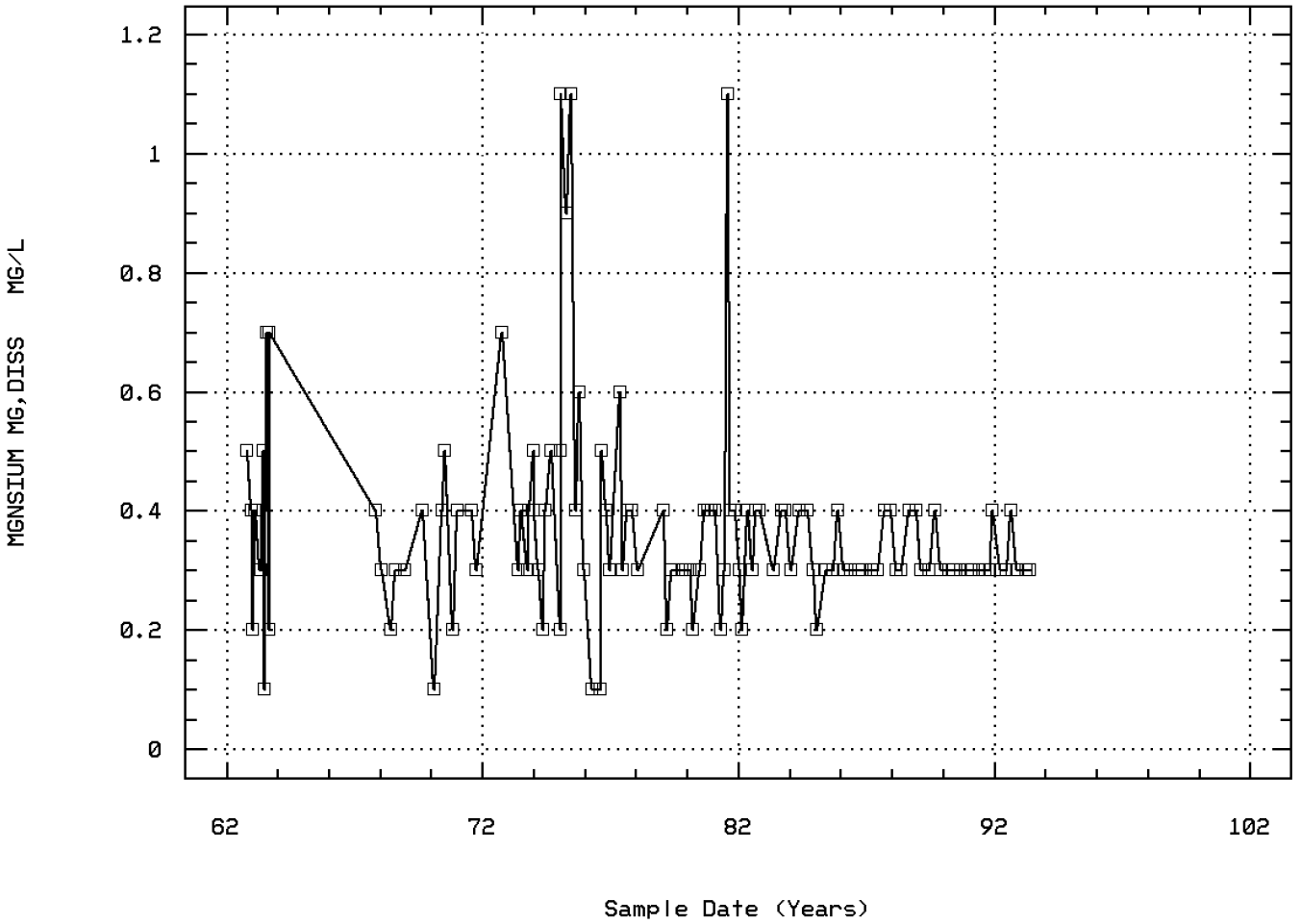
CATALOOCHEE CREEK NEAR CATALOOCHEE N C



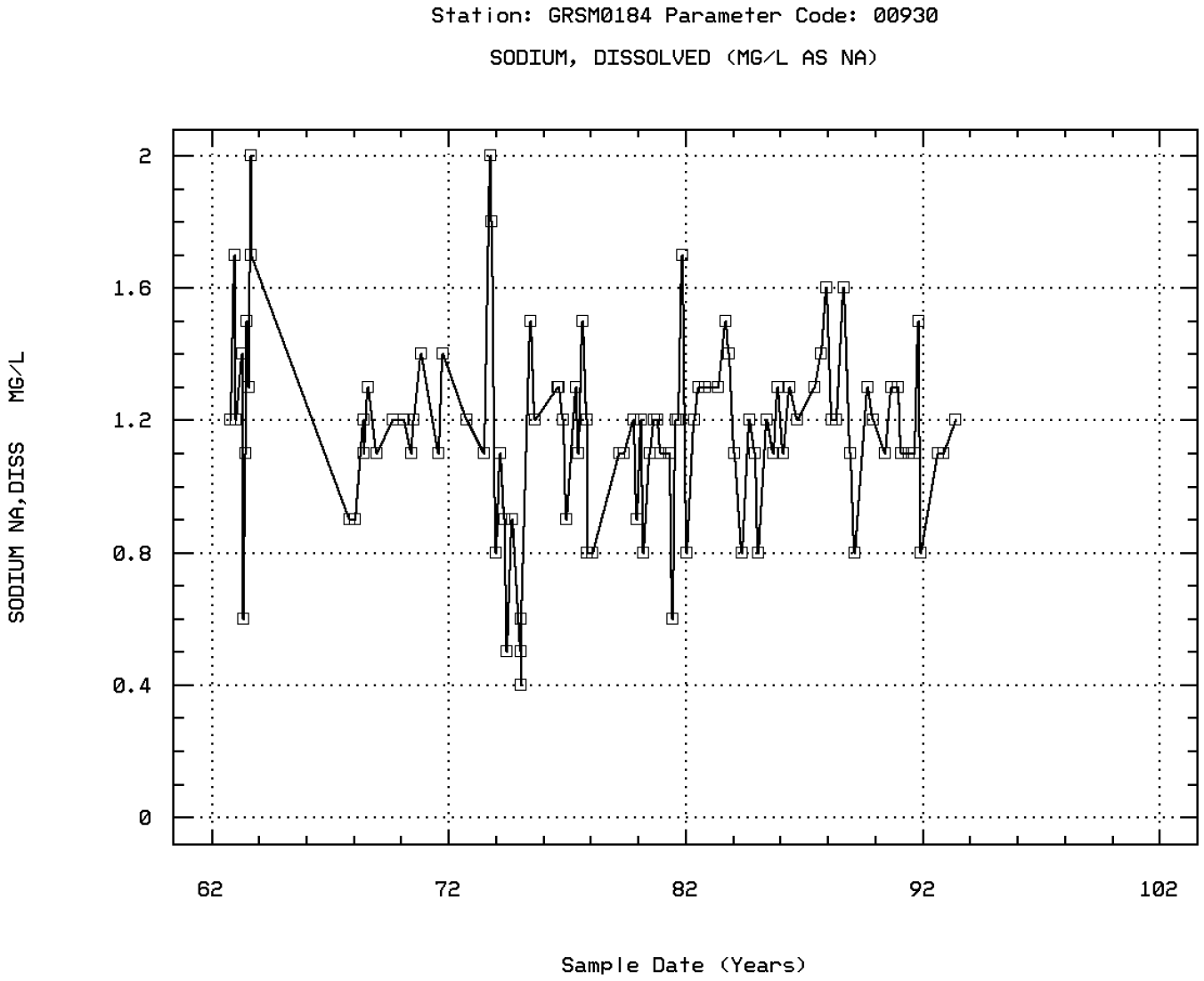
CATALOOCHEE CREEK NEAR CATALOOCHEE N C

Station: GRSM0184 Parameter Code: 00925

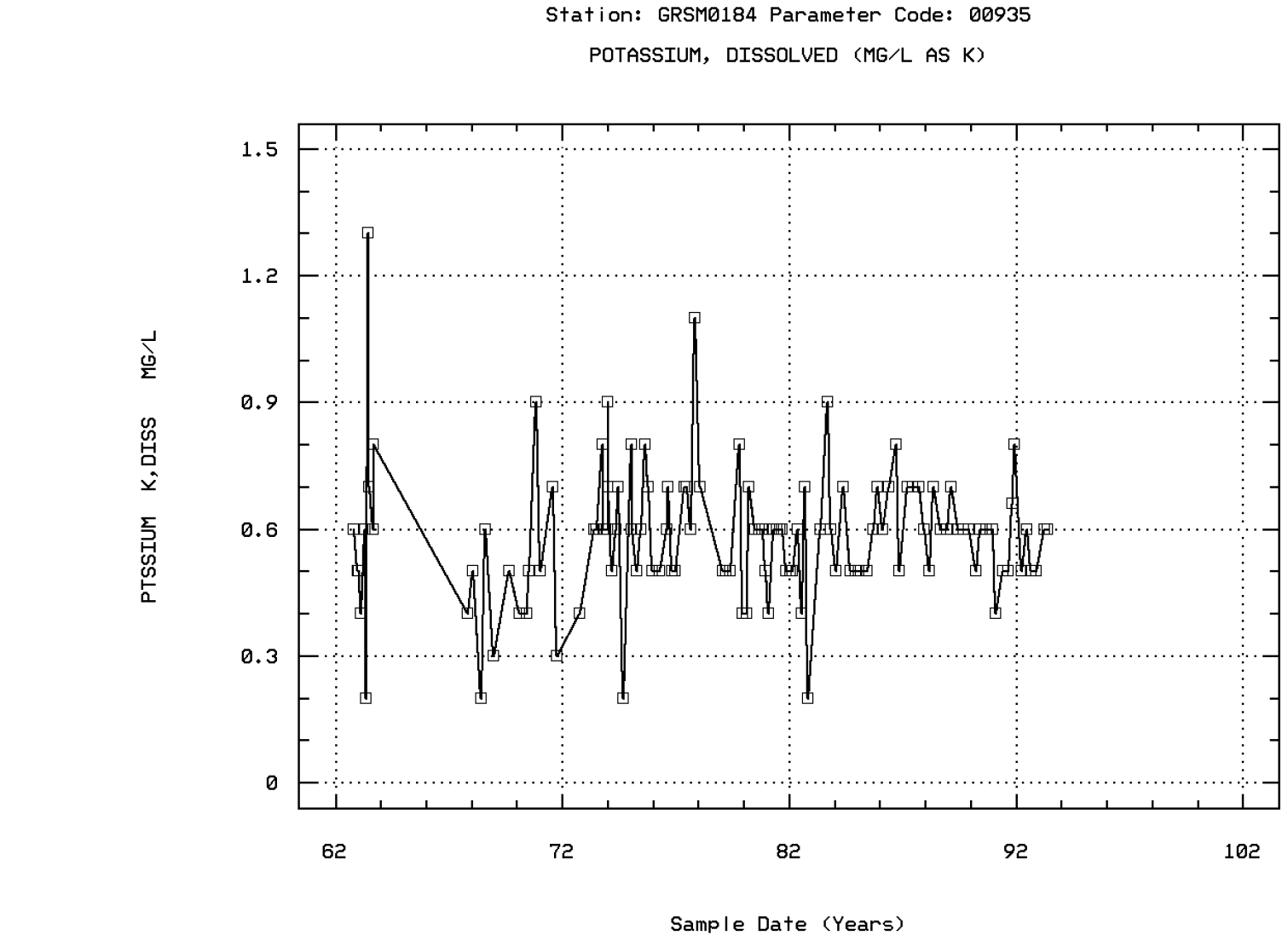
MAGNESIUM, DISSOLVED (MG/L AS MG)



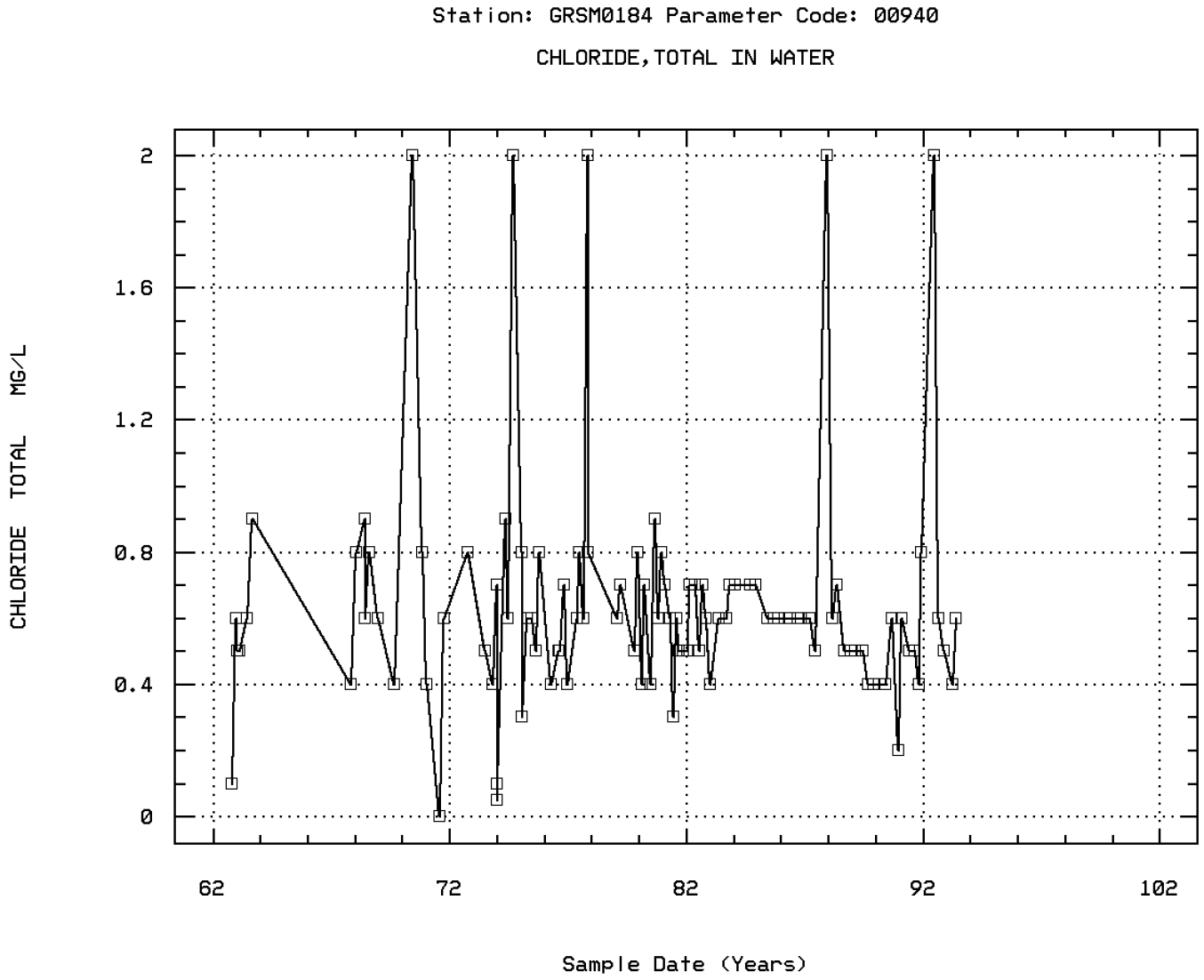
CATALOOCHEE CREEK NEAR CATALOOCHEE N C



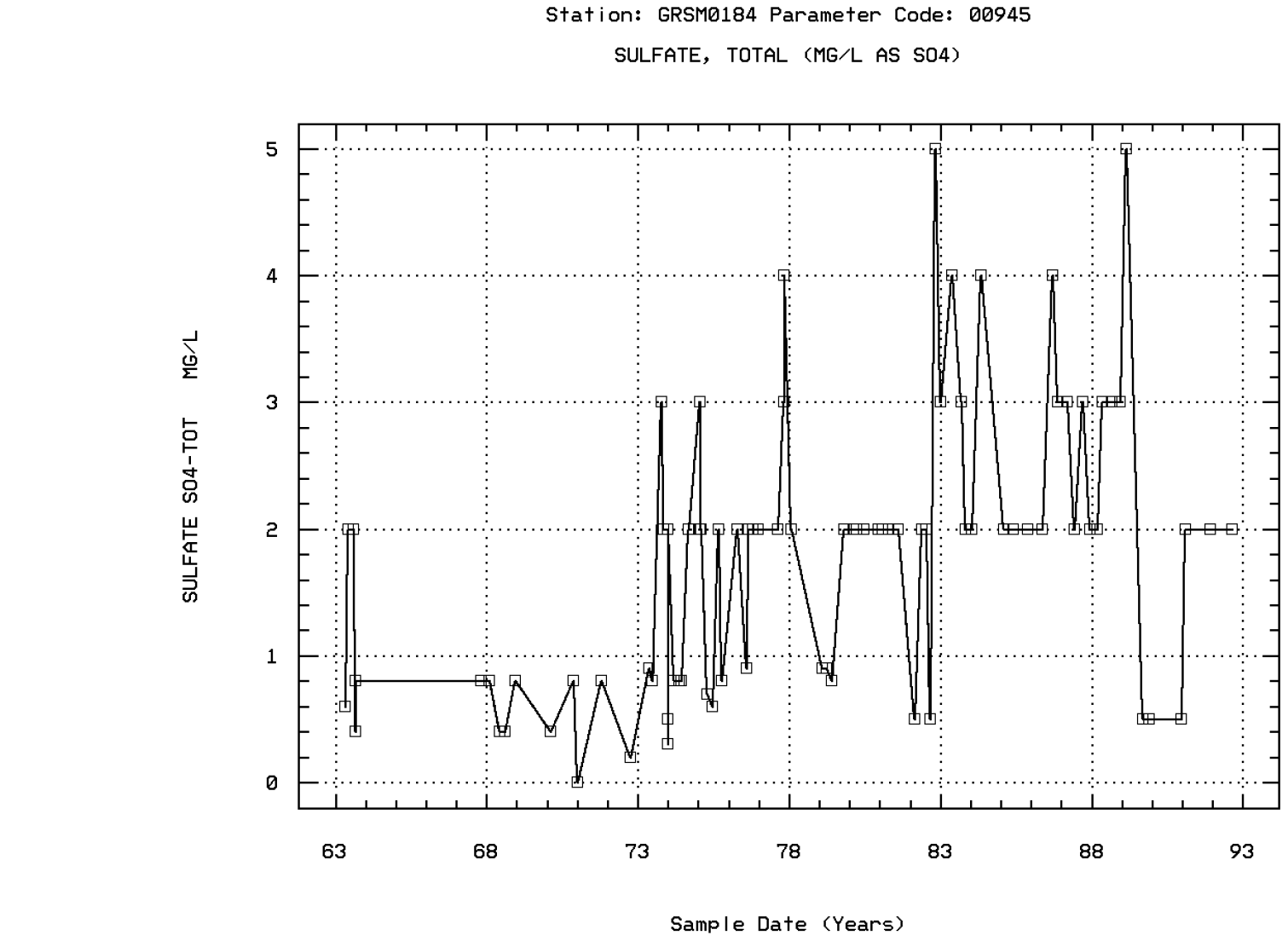
CATALOOCHEE CREEK NEAR CATALOOCHEE N C



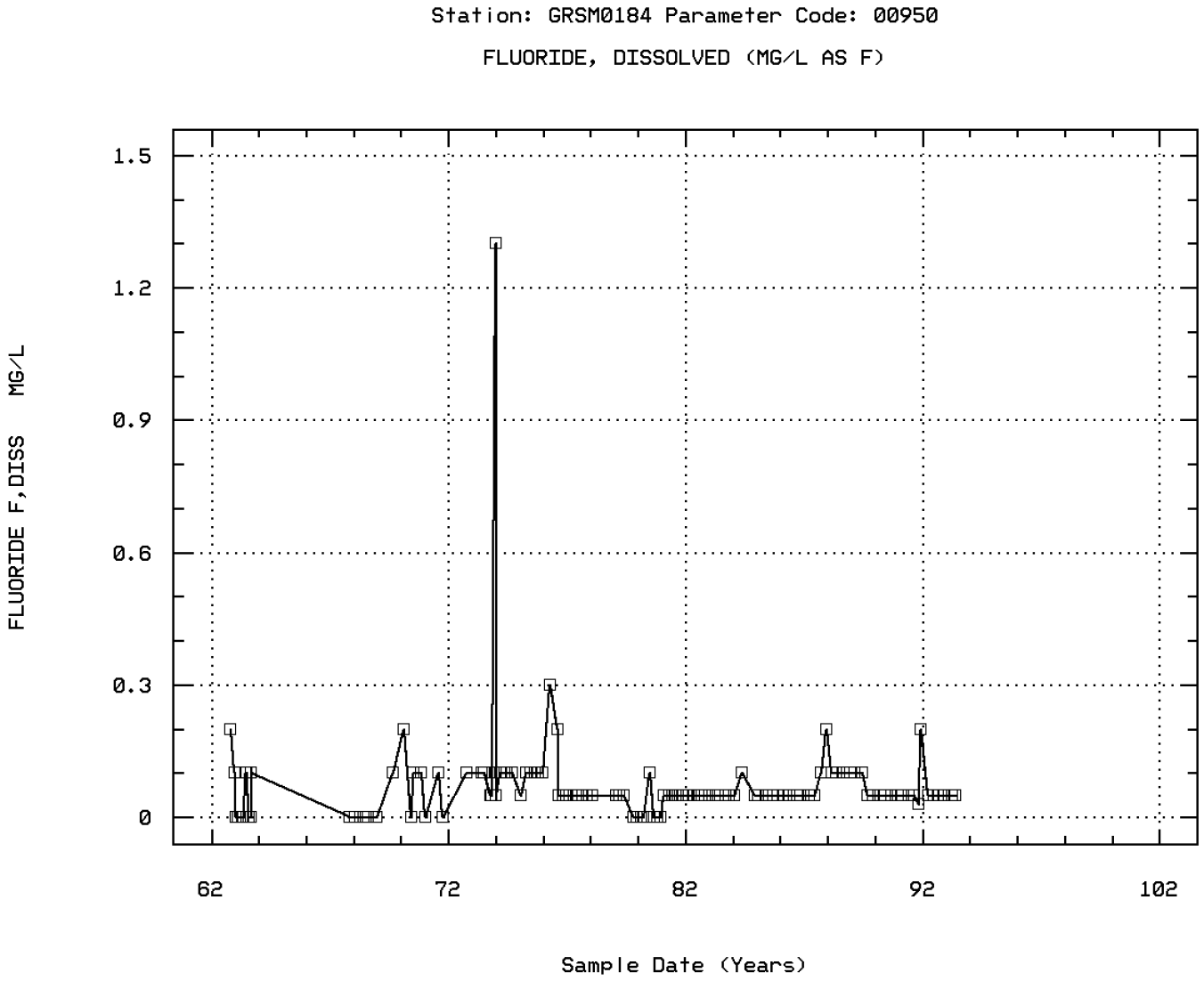
CATALOOCHEE CREEK NEAR CATALOOCHEE N C



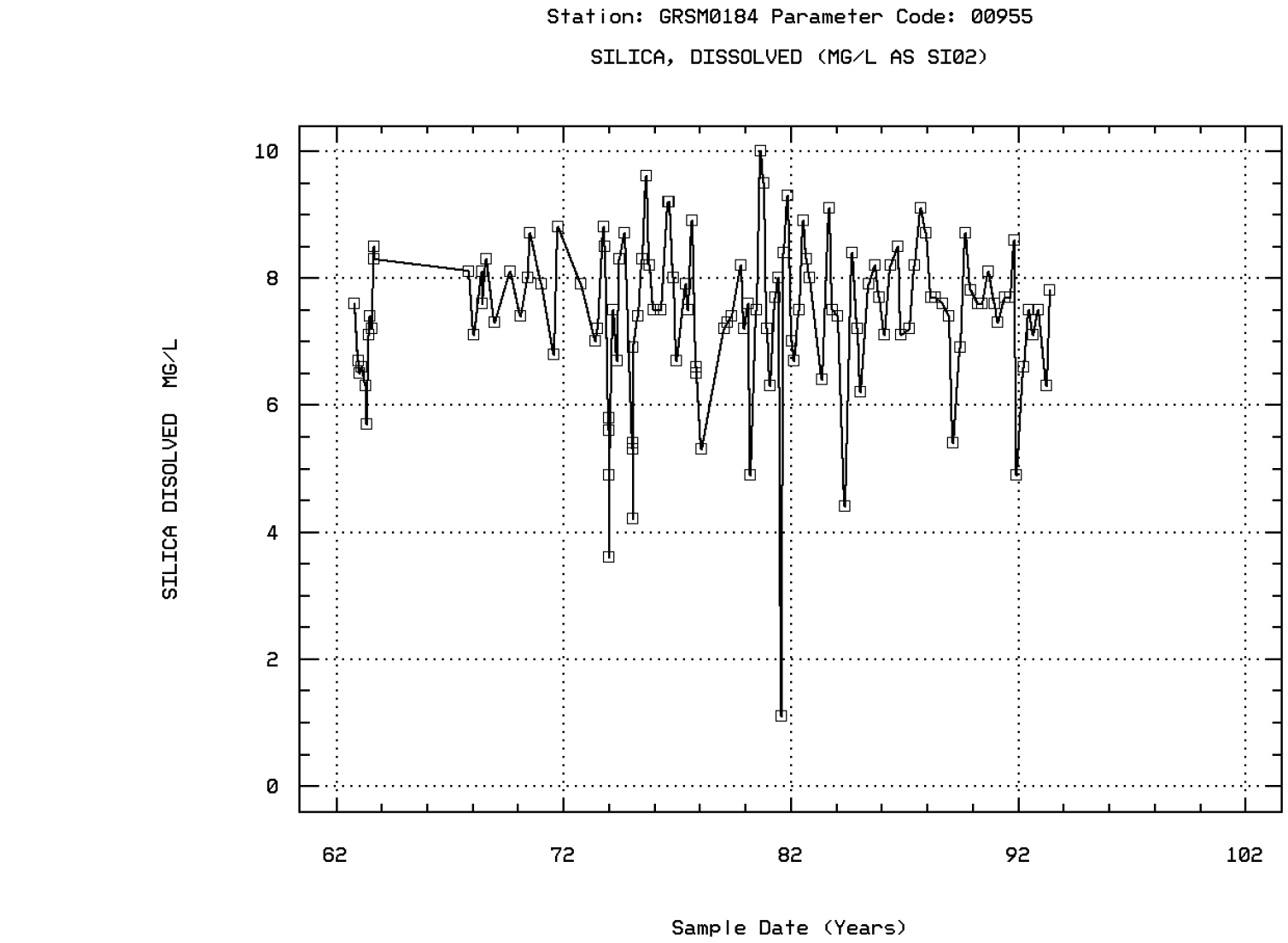
CATALOOCHEE CREEK NEAR CATALOOCHEE N C



CATALOOCHEE CREEK NEAR CATALOOCHEE N C



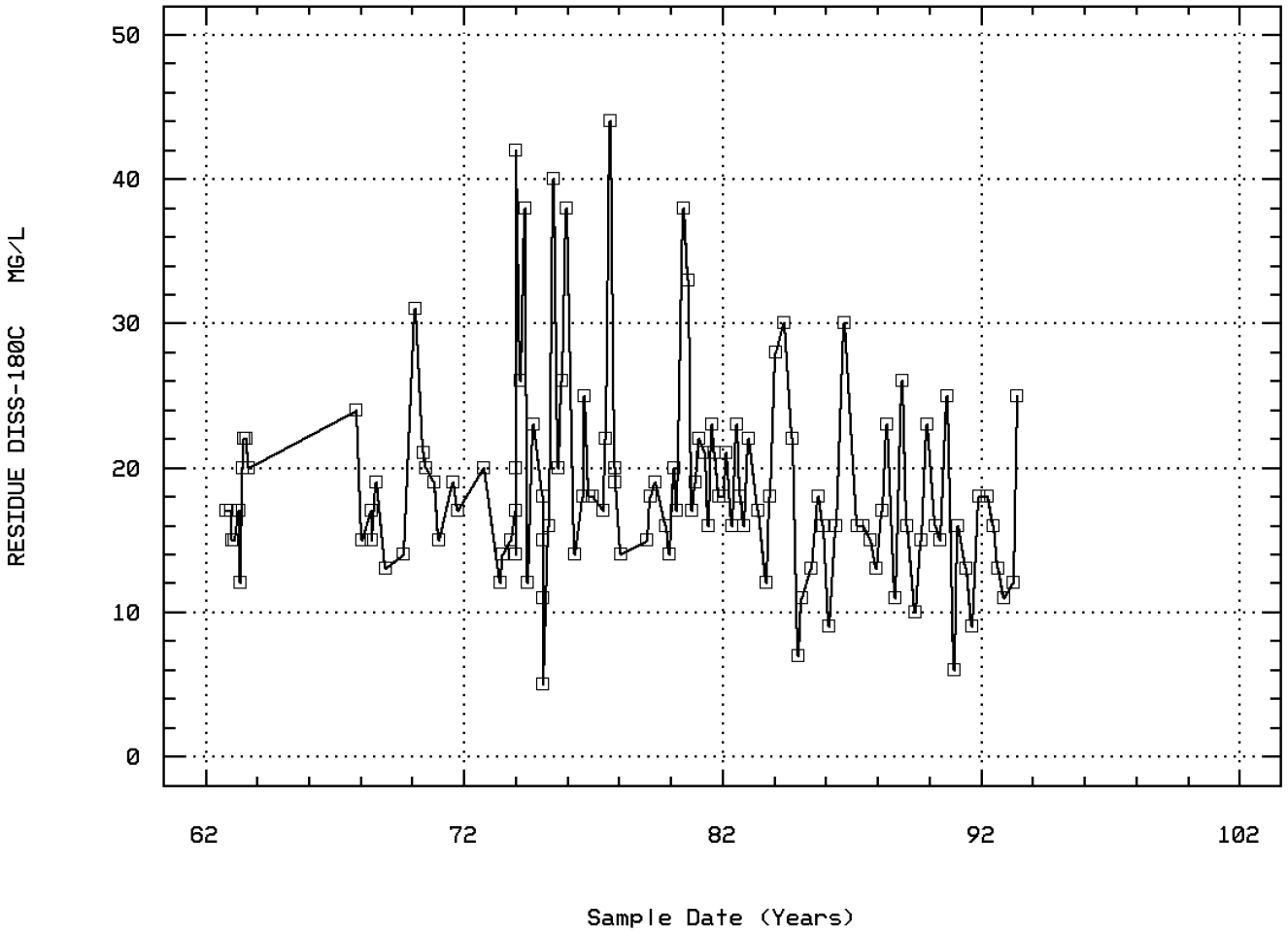
CATALOOCHEE CREEK NEAR CATALOOCHEE N C



CATALOOCHEE CREEK NEAR CATALOOCHEE N C

Station: GRSM0184 Parameter Code: 70300

RESIDUE,TOTAL FILTRABLE (DRIED AT 180C)



CATALOOCHEE CREEK NEAR CATALOOCHEE N C

Annual Analysis for 1962 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/18/62-06/28/73	2	41.	41.	45.	37.	32.	5.657	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	2	18.5	18.5	19.	18.	0.5	0.707	**	**	**	**
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	2	6.3	6.3	6.4	6.2	0.02	0.141	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	2	6.289	6.289	6.4	6.2	0.02	0.142	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	2	0.515	0.515	0.631	0.398	0.027	0.165	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/18/62-12/07/88	2	7.5	7.5	9.	6.	4.5	2.121	**	**	**	**

** - Less 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 1963 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/18/62-06/28/73	9	74.	82.556	180.	34.	1753.028	41.869	34.	58.5	95.5	180.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	9	16.	16.333	23.	13.	9.5	3.082	13.	13.5	17.5	23.
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	9	6.3	6.311	6.9	5.5	0.169	0.411	5.5	6.1	6.65	6.9
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	9	6.3	6.117	6.9	5.5	0.211	0.459	5.5	6.1	6.65	6.9
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	9	0.501	0.764	3.162	0.126	0.878	0.937	0.126	0.225	0.815	3.162
00440	BICARBONATE ION (MG/L AS HCO3)	10/18/62-12/07/88	9	8.	7.889	11.	5.	3.611	1.9	5.	6.5	9.5	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

Annual Analysis for 1967 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	3	9.	9.	10.	8.	1.	1.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	10/18/62-06/28/73	2	116.5	116.5	167.	66.	5100.5	71.418	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	1	0.398	0.398	0.398	0.398	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/18/62-12/07/88	1	8.	8.	8.	8.	0.	0.	**	**	**	**

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Annual Analysis for 1968 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	12	11.5	9.417	17.	0.	31.174	5.583	0.	5.5	13.75	16.1
00060	FLOW, STREAM, MEAN DAILY CFS	10/18/62-06/28/73	13	64.	80.154	174.	27.	2268.808	47.632	28.6	43.5	113.5	169.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	11	15.	15.636	22.	13.	6.455	2.541	13.	14.	17.	21.
00300	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	8	10.5	10.875	13.	9.	1.839	1.356	**	**	**	**
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	12	7.1	7.175	9.	6.	0.738	0.859	6.06	6.475	7.75	8.7
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	12	7.004	6.652	9.	6.	1.037	1.019	6.06	6.475	7.75	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	12	0.099	0.223	1.	0.001	0.096	0.309	0.004	0.018	0.348	0.889
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	5	5.	5.4	7.	5.	0.8	0.894	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/18/62-12/07/88	5	6.	6.4	8.	6.	0.8	0.894	**	**	**	**

** - Less 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 GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	8	7.5	7.625	16.	0.	29.411	5.423	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	10/18/62-06/28/73	11	67.	84.455	224.	47.	2730.273	52.252	47.	54.	96.	205.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	9	15.	14.778	19.	11.	8.944	2.991	11.	11.5	17.5	19.
00300	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	9	10.	10.333	14.	7.5	4.602	2.145	7.5	8.45	12.	14.
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	11	7.4	7.382	8.3	6.1	0.29	0.538	6.3	7.2	7.6	8.2
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	11	7.4	6.97	8.3	6.1	0.477	0.69	6.3	7.2	7.6	8.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	11	0.04	0.107	0.794	0.005	0.052	0.229	0.007	0.025	0.063	0.651
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	2	6.5	6.5	7.	6.	0.5	0.707	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/18/62-12/07/88	2	7.5	7.5	8.	7.	0.5	0.707	**	**	**	**

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Annual Analysis for 1970 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	10	9.15	9.32	17.3	1.	29.266	5.41	1.22	3.8	14.2	17.05
00060	FLOW, STREAM, MEAN DAILY CFS	10/18/62-06/28/73	10	94.	175.6	1080.	23.	102550.933	320.236	23.6	33.5	118.25	985.1
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	9	16.	15.778	20.	13.	3.444	1.856	13.	15.	16.	20.
00300	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	5	10.6	10.5	11.7	8.8	1.51	1.229	**	**	**	**
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	9	6.6	6.822	7.9	6.2	0.379	0.616	6.2	6.25	7.3	7.9
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	9	6.6	6.541	7.9	6.2	0.468	0.684	6.2	6.25	7.3	7.9
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	9	0.251	0.288	0.631	0.013	0.067	0.258	0.013	0.05	0.566	0.631
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	7	6.	5.857	10.	2.	5.81	2.41	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/18/62-12/07/88	6	6.5	6.833	12.	3.	8.567	2.927	**	**	**	**

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Annual Analysis for 1971 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	7	11.7	10.014	15.4	3.8	23.231	4.82	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	10/18/62-06/28/73	7	74.	118.857	322.	38.	9309.476	96.486	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	6	15.5	15.5	19.	12.	5.9	2.429	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	4	9.95	10.35	13.2	8.3	4.297	2.073	**	**	**	**
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	7	7.1	6.786	7.6	5.8	0.458	0.677	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	7	7.1	6.358	7.6	5.8	0.672	0.82	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	7	0.079	0.439	1.585	0.025	0.374	0.612	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	7	6.	6.429	9.	5.	1.952	1.397	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/18/62-12/07/88	3	6.	6.333	7.	6.	0.333	0.577	**	**	**	**

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Annual Analysis for 1972 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	5	7.	8.92	15.5	3.2	32.817	5.729	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	10/18/62-06/28/73	6	97.5	101.5	169.	57.	1528.3	39.093	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	5	14.	15.	17.	14.	2.	1.414	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	3	12.1	12.033	12.3	11.7	0.093	0.306	**	**	**	**
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	5	6.8	6.96	7.7	6.4	0.373	0.611	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	5	6.8	6.696	7.7	6.4	0.46	0.678	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	5	0.158	0.201	0.398	0.02	0.035	0.188	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	5	6.	7.2	11.	4.	9.7	3.114	**	**	**	**

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Annual Analysis for 1972 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00440	BICARBONATE ION (MG/L AS HCO3)	10/18/62-12/07/88	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

Annual Analysis for 1973 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	21	9.	10.214	18.	0.5	26.139	5.113	2.4	7.	16.	17.6
00060	FLOW, STREAM, MEAN DAILY CFS	10/18/62-06/28/73	3	114.	114.333	115.	114.	0.333	0.577	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/73-05/11/93	23	44.	163.696	1240.	33.	80867.767	284.373	35.4	38.	93.	580.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	10	16.5	17.1	25.	14.	10.1	3.178	14.	14.75	18.	24.3
00300	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	20	10.25	10.42	14.3	8.	2.192	1.481	8.56	9.475	10.75	13.32
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	23	6.9	6.743	7.6	5.4	0.318	0.564	6.02	6.3	7.1	7.48
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	23	6.9	6.356	7.6	5.4	0.475	0.689	6.02	6.3	7.1	7.48
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	23	0.126	0.44	3.981	0.025	0.686	0.828	0.035	0.079	0.501	1.008
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	21	7.	6.524	9.	4.	2.462	1.569	4.	5.	8.	8.
00440	BICARBONATE ION (MG/L AS HCO3)	10/18/62-12/07/88	9	8.	7.778	10.	5.	3.194	1.787	5.	6.5	9.	10.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/73-05/11/93	6	17.5	57.833	232.	2.	7776.967	88.187	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/11/73-09/08/82	6	18.	153.615	777.	0.19	94848.575	307.975	**	**	**	**

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Annual Analysis for 1974 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	38	13.	12.284	18.	5.	12.707	3.565	6.	9.5	15.25	17.
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/73-05/11/93	39	131.	152.333	435.	39.	10131.912	100.657	47.	67.	194.	321.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	19	16.	20.158	35.	10.	67.696	8.228	11.	14.	30.	30.
00300	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	37	9.6	10.059	13.2	8.8	1.189	1.09	8.98	9.2	10.75	11.92
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	36	6.9	6.889	7.4	6.4	0.079	0.281	6.47	6.7	7.075	7.4
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	36	6.9	6.806	7.4	6.4	0.086	0.293	6.47	6.7	7.075	7.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	36	0.126	0.156	0.398	0.04	0.01	0.098	0.04	0.085	0.2	0.341
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	35	6.	6.029	19.	4.	6.499	2.549	4.	5.	6.	8.
00440	BICARBONATE ION (MG/L AS HCO3)	10/18/62-12/07/88	4	6.5	6.25	7.	5.	0.917	0.957	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/73-05/11/93	3	9.	15.	34.	2.	283.	16.823	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/11/73-09/08/82	3	2.3	2.533	4.6	0.7	3.843	1.96	**	**	**	**

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Annual Analysis for 1975 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	10	8.5	10.45	17.	5.	19.469	4.412	5.2	7.	14.75	17.
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/73-05/11/93	15	114.	304.	1610.	35.	178380.	422.351	41.6	60.	293.	1118.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	10	15.5	15.9	23.	11.	12.1	3.479	11.2	13.75	17.75	22.7
00300	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	7	11.	10.914	12.9	9.3	1.355	1.164	**	**	**	**
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	10	5.9	6.21	7.8	5.4	0.59	0.768	5.43	5.7	6.625	7.75
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	10	5.889	5.878	7.8	5.4	0.712	0.844	5.43	5.7	6.625	7.75
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	10	1.292	1.324	3.981	0.016	1.43	1.196	0.019	0.311	1.995	3.782
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	10	5.	4.6	7.	2.	3.822	1.955	2.	2.75	6.25	7.
00440	BICARBONATE ION (MG/L AS HCO3)	10/18/62-12/07/88	9	6.	5.444	8.	3.	4.028	2.007	3.	3.5	7.5	8.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/73-05/11/93	14	4.	34.143	383.	2.	10170.44	100.849	2.5	3.	8.	211.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/11/73-09/08/82	14	1.75	126.542	1670.	0.38	197819.365	444.769	0.435	0.59	3.35	876.5

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Annual Analysis for 1976 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	5	7.	8.9	17.	1.5	41.3	6.427	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/73-05/11/93	14	71.5	79.714	167.	29.	1949.143	44.149	30.	43.75	108.5	157.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	5	15.	15.2	17.	14.	1.7	1.304	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	5	12.	11.46	14.5	8.8	5.238	2.289	**	**	**	**
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	5	7.2	6.68	7.7	5.5	1.012	1.006	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	5	7.2	5.975	7.7	5.5	1.632	1.278	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	5	0.063	1.058	3.162	0.02	2.097	1.448	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	5	5.	5.2	7.	4.	1.2	1.095	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/18/62-12/07/88	5	6.	6.2	8.	5.	1.2	1.095	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/73-05/11/93	13	3.	4.	17.	1.	18.167	4.262	1.4	2.	3.5	13.4
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/11/73-09/08/82	13	0.51	0.755	2.	0.08	0.406	0.637	0.116	0.27	1.05	2.

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Annual Analysis for 1977 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	8	13.75	12.375	18.5	0.	31.768	5.636	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/73-05/11/93	15	90.	134.533	500.	43.	14600.981	120.835	45.4	55.	170.	360.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	8	14.5	15.875	25.	10.	26.696	5.167	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	8	11.05	11.25	13.	9.8	1.42	1.192	**	**	**	**
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	7	6.9	7.043	7.8	6.6	0.223	0.472	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	7	6.9	6.873	7.8	6.6	0.257	0.507	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	7	0.126	0.134	0.251	0.016	0.01	0.101	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	5	6.	6.8	10.	5.	3.7	1.924	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/18/62-12/07/88	5	7.	8.	12.	6.	5.5	2.345	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/17/77-03/30/93	3	100.	81.667	100.	45.	1008.333	31.754	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/73-05/11/93	12	3.	5.583	31.	1.	69.356	8.328	1.	1.	6.25	24.1
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/11/73-09/08/82	12	0.71	3.085	17.	0.12	28.484	5.337	0.129	0.168	2.875	15.2

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Annual Analysis for 1978 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	8	11.5	10.875	19.	1.	46.125	6.792	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/73-05/11/93	17	116.	164.765	890.	27.	40155.441	200.388	33.4	59.5	186.5	416.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	7	11.	11.857	20.	6.	29.476	5.429	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	7	11.	10.971	15.	8.	5.549	2.356	**	**	**	**
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	7	6.7	6.886	7.9	6.4	0.228	0.478	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	7	6.7	6.744	7.9	6.4	0.251	0.501	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	7	0.2	0.18	0.398	0.013	0.014	0.117	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/18/62-12/07/88	1	3.	3.	3.	3.	0.	0.	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/17/77-03/30/93	8	100.	91.75	100.	62.	189.071	13.75	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/73-05/11/93	9	4.	5.556	24.	1.	51.778	7.196	1.	1.5	6.	24.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/11/73-09/08/82	9	1.	7.301	58.	0.07	361.91	19.024	0.07	0.415	1.95	58.

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Annual Analysis for 1979 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	5	10.	7.	12.	1.	30.5	5.523	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/73-05/11/93	10	108.	121.7	282.	59.	3647.789	60.397	61.8	93.	126.5	267.8
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	5	13.	13.6	16.	12.	2.3	1.517	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	5	9.4	10.6	16.	7.8	10.7	3.271	**	**	**	**
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	5	7.3	7.36	7.7	7.1	0.048	0.219	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	5	7.3	7.32	7.7	7.1	0.05	0.224	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	5	0.05	0.048	0.079	0.02	0.	0.022	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	5	6.	5.8	7.	5.	0.7	0.837	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/18/62-12/07/88	5	7.	6.8	8.	6.	0.7	0.837	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/17/77-03/30/93	10	100.	85.7	100.	50.	377.122	19.42	51.3	69.	100.	100.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/73-05/11/93	10	1.5	1.9	8.	0.	6.322	2.514	0.	0.	2.5	7.6
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/11/73-09/08/82	10	0.29	0.563	2.5	0.	0.673	0.82	0.	0.	0.81	2.4

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Annual Analysis for 1980 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	9	7.5	8.389	15.5	2.5	18.674	4.321	2.5	5.5	12.	15.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/73-05/11/93	13	80.	279.615	1480.	26.	227235.256	476.692	26.	52.	175.5	1368.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	8	14.5	14.25	17.	11.	4.5	2.121	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	8	10.05	10.25	16.	7.2	7.829	2.798	**	**	**	**
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	8	6.85	6.888	7.2	6.5	0.047	0.217	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	8	6.847	6.839	7.2	6.5	0.05	0.223	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	8	0.142	0.145	0.316	0.063	0.006	0.079	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	8	5.5	6.75	15.	3.	17.071	4.132	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/18/62-12/07/88	8	6.5	7.5	18.	4.	19.714	4.44	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/17/77-03/30/93	12	57.	60.917	88.	33.	294.447	17.159	36.3	48.5	75.	86.5
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/73-05/11/93	13	3.	9.308	51.	1.	229.731	15.157	1.	1.5	7.5	43.8
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/11/73-09/08/82	13	0.58	24.647	204.	0.07	3765.49	61.364	0.098	0.285	2.75	165.2

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Annual Analysis for 1981 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	11	10.	8.955	17.5	0.	53.723	7.33	0.2	1.5	16.5	17.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/73-05/11/93	14	50.	72.357	202.	28.	3056.555	55.286	29.	36.5	89.75	188.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	10	14.5	14.9	19.	12.	4.989	2.234	12.1	13.	16.5	18.9
00300	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	10	9.4	9.65	12.1	7.6	2.585	1.608	7.62	8.1	11.1	12.06
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	10	6.85	6.87	7.2	6.6	0.038	0.195	6.6	6.75	7.025	7.19
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	10	6.847	6.832	7.2	6.6	0.039	0.199	6.6	6.75	7.025	7.19
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	10	0.142	0.147	0.251	0.063	0.004	0.064	0.065	0.095	0.182	0.251
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	10	5.	4.8	6.	2.	1.067	1.033	2.3	5.	5.	5.9
00440	BICARBONATE ION (MG/L AS HCO3)	10/18/62-12/07/88	10	6.	5.9	7.	3.	1.211	1.101	3.3	6.	6.25	7.
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/17/77-03/30/93	13	50.	45.769	72.	17.	339.359	18.422	20.2	27.5	63.5	70.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/73-05/11/93	13	2.	2.923	9.	1.	4.91	2.216	1.	2.	3.	7.8
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/11/73-09/08/82	13	0.31	0.752	4.9	0.08	1.638	1.28	0.092	0.21	0.8	3.34

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Annual Analysis for 1982 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	9	11.	10.778	17.	3.5	21.507	4.638	3.5	6.5	14.	17.
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/73-05/11/93	10	83.	96.6	231.	41.	3361.156	57.975	41.6	53.	120.25	223.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	9	13.	13.556	16.	11.	3.278	1.81	11.	12.	15.5	16.
00300	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	9	8.8	8.878	12.8	6.3	3.737	1.933	6.3	7.5	9.9	12.8
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	9	6.8	6.767	7.1	6.3	0.055	0.235	6.3	6.6	6.9	7.1
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	9	6.8	6.704	7.1	6.3	0.059	0.244	6.3	6.6	6.9	7.1
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	9	0.158	0.198	0.501	0.079	0.016	0.128	0.079	0.126	0.251	0.501
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	8	4.	3.75	6.	2.	1.357	1.165	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/18/62-12/07/88	8	5.	4.75	7.	3.	1.357	1.165	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/17/77-03/30/93	10	73.	74.1	100.	57.	200.767	14.169	57.2	59.75	84.75	99.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/73-05/11/93	10	3.5	4.3	12.	1.	11.567	3.401	1.	1.75	6.25	11.5
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/11/73-09/08/82	8	0.73	0.94	2.5	0.15	0.558	0.747	**	**	**	**

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Annual Analysis for 1983 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	4	9.75	10.5	17.	5.5	29.833	5.462	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/73-05/11/93	4	78.	140.75	374.	33.	25920.917	161.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	4	14.	13.5	16.	10.	6.333	2.517	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	4	10.65	10.725	12.6	9.	2.303	1.517	**	**	**	**
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	4	6.5	6.525	6.8	6.3	0.049	0.222	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	4	6.489	6.485	6.8	6.3	0.051	0.226	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	4	0.325	0.327	0.501	0.158	0.023	0.152	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	4	4.5	4.	5.	2.	2.	1.414	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/18/62-12/07/88	4	5.5	5.	6.	3.	2.	1.414	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/17/77-03/30/93	4	75.	75.	86.	64.	80.667	8.981	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/73-05/11/93	4	2.5	14.25	51.	1.	600.917	24.514	**	**	**	**

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Annual Analysis for 1984 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	4	8.	7.375	11.	2.5	14.063	3.75	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/73-05/11/93	7	59.	286.143	1550.	38.	313098.476	559.552	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	4	14.5	14.5	15.	14.	0.333	0.577	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	4	10.75	11.65	15.	10.1	5.363	2.316	**	**	**	**
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	4	6.5	6.425	6.6	6.1	0.049	0.222	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	4	6.5	6.377	6.6	6.1	0.052	0.228	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	4	0.316	0.419	0.794	0.251	0.063	0.252	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	4	5.	4.5	6.	2.	3.	1.732	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/18/62-12/07/88	4	6.	5.25	7.	2.	4.917	2.217	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/17/77-03/30/93	7	55.	62.286	93.	50.	226.238	15.041	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/73-05/11/93	7	3.	34.429	225.	1.	7062.952	84.041	**	**	**	**

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

Annual Analysis for 1985 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	22	11.25	8.318	12.	4.	16.013	4.002	4.	4.	12.	12.
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/73-05/11/93	4	44.	100.	280.	32.	14498.667	120.41	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	22	15.	14.545	17.	12.	5.974	2.444	12.	12.	17.	17.
00300	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	22	10.55	11.15	12.3	10.1	1.182	1.087	10.1	10.1	12.3	12.3
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	22	6.325	6.284	6.6	5.9	0.052	0.229	6.	6.075	6.5	6.5
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	22	6.307	6.226	6.6	5.9	0.056	0.237	6.	6.075	6.5	6.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	22	0.493	0.594	1.259	0.251	0.098	0.313	0.316	0.316	0.846	1.
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	4	4.5	4.5	6.	3.	1.667	1.291	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/18/62-12/07/88	3	5.	4.667	6.	3.	2.333	1.528	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/17/77-03/30/93	6	58.5	55.833	80.	25.	327.767	18.104	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/73-05/11/93	7	2.	2.	3.	1.	0.333	0.577	**	**	**	**

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Annual Analysis for 1986 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	4	11.5	10.5	15.	4.	25.667	5.066	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/73-05/11/93	4	48.5	45.75	59.	27.	254.25	15.945	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	4	15.5	15.25	17.	13.	2.917	1.708	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	4	10.2	10.6	12.6	9.4	1.98	1.407	**	**	**	**
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	4	6.35	6.3	6.4	6.1	0.02	0.141	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	4	6.347	6.282	6.4	6.1	0.02	0.143	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	4	0.45	0.523	0.794	0.398	0.035	0.187	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	4	4.5	4.75	6.	4.	0.917	0.957	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/17/77-03/30/93	2	62.5	62.5	77.	48.	420.5	20.506	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/73-05/11/93	4	1.	2.25	7.	0.	10.917	3.304	**	**	**	**

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Annual Analysis for 1987 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	4	9.25	9.375	16.	3.	37.563	6.129	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/73-05/11/93	4	52.	66.	138.	22.	2770.667	52.637	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	4	14.5	14.75	16.	14.	0.917	0.957	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	4	11.25	10.95	12.7	8.6	4.137	2.034	**	**	**	**
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	4	6.125	6.208	6.68	5.9	0.111	0.333	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	4	6.124	6.129	6.68	5.9	0.119	0.345	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	4	0.751	0.743	1.259	0.209	0.185	0.43	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	4	5.	5.	6.	4.	0.667	0.816	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/17/77-03/30/93	4	31.5	25.5	39.	0.	303.	17.407	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/73-05/11/93	4	3.	3.75	9.	0.	14.917	3.862	**	**	**	**

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Annual Analysis for 1988 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	4	7.	7.25	14.	1.	44.917	6.702	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/73-05/11/93	4	51.	55.5	72.	48.	123.667	11.121	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	4	15.	15.	16.	14.	0.667	0.816	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	4	11.95	11.925	14.4	9.4	6.449	2.54	**	**	**	**

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Annual Analysis for 1988 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	4	6.85	6.805	7.39	6.13	0.349	0.591	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	4	6.722	6.537	7.39	6.13	0.445	0.667	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	4	0.19	0.29	0.741	0.041	0.106	0.326	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	4	4.	4.	5.	3.	0.667	0.816	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/18/62-12/07/88	1	5.	5.	5.	5.	0.	0.	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/17/77-03/30/93	4	10.	13.	32.	0.	249.333	15.79	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/73-05/11/93	4	1.	2.25	7.	0.	10.917	3.304	**	**	**	**

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Annual Analysis for 1989 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	4	11.	11.5	16.	8.	13.667	3.697	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/73-05/11/93	4	239.5	284.5	605.	54.	60720.333	246.415	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	4	14.5	14.75	18.	12.	6.25	2.5	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	4	10.35	10.375	11.4	9.4	0.709	0.842	**	**	**	**
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	4	6.55	6.575	7.4	5.8	0.563	0.75	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	4	6.35	6.201	7.4	5.8	0.749	0.866	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	4	0.447	0.63	1.585	0.04	0.523	0.723	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	4	4.5	4.25	6.	2.	2.917	1.708	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/17/77-03/30/93	4	32.5	26.25	40.	0.	356.25	18.875	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/73-05/11/93	4	15.5	25.25	69.	1.	945.583	30.75	**	**	**	**

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Annual Analysis for 1990 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	4	11.25	10.25	16.5	2.	39.75	6.305	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/73-05/11/93	4	76.5	98.25	188.	52.	4081.583	63.887	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	4	14.	14.	15.	13.	1.333	1.155	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	4	10.15	10.575	12.7	9.3	2.542	1.595	**	**	**	**
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	4	6.265	6.16	6.31	5.8	0.059	0.244	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	4	6.263	6.101	6.31	5.8	0.064	0.253	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	4	0.546	0.792	1.585	0.49	0.282	0.531	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	4	4.5	4.5	5.	4.	0.333	0.577	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/17/77-03/30/93	3	17.	26.	55.	6.	661.	25.71	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/73-05/11/93	4	2.5	2.	3.	0.	2.	1.414	**	**	**	**

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Annual Analysis for 1991 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	4	11.75	10.5	14.5	4.	21.5	4.637	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/73-05/11/93	4	153.	249.75	626.	67.	64560.917	254.088	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	4	14.5	14.	16.	11.	4.667	2.16	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	4	11.75	12.025	14.8	9.8	6.802	2.608	**	**	**	**
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	4	6.18	6.37	7.18	5.94	0.314	0.56	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	4	6.164	6.189	7.18	5.94	0.358	0.598	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	4	0.686	0.647	1.148	0.066	0.22	0.469	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	3	4.	4.333	5.	4.	0.333	0.577	**	**	**	**

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Annual Analysis for 1991 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/17/77-03/30/93	4	46.	37.	56.	0.	631.333	25.126	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/73-05/11/93	4	5.5	6.25	12.	2.	17.583	4.193	**	**	**	**

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Annual Analysis for 1992 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	4	9.1	9.425	15.	4.5	32.623	5.712	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/73-05/11/93	4	124.5	135.	197.	94.	1975.333	44.445	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	4	14.5	14.75	16.	14.	0.917	0.957	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	4	10.75	10.575	11.9	8.9	2.276	1.509	**	**	**	**
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	4	6.21	6.205	6.3	6.1	0.009	0.095	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	4	6.206	6.197	6.3	6.1	0.009	0.096	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	4	0.622	0.635	0.794	0.501	0.019	0.139	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	4	0.	1.5	6.	0.	9.	3.	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/17/77-03/30/93	3	57.	53.	70.	32.	373.	19.313	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/73-05/11/93	3	3.	2.667	4.	1.	2.333	1.528	**	**	**	**

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Annual Analysis for 1993 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	2	11.5	11.5	13.	10.	4.5	2.121	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/73-05/11/93	2	180.5	180.5	275.	86.	17860.5	133.643	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	2	14.5	14.5	15.	14.	0.5	0.707	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	2	9.75	9.75	10.3	9.2	0.605	0.778	**	**	**	**
00400	PH (STANDARD UNITS)	10/18/62-05/11/93	2	7.565	7.565	7.63	7.5	0.008	0.092	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	2	7.56	7.56	7.63	7.5	0.008	0.092	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	2	0.028	0.028	0.032	0.023	0.	0.006	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/17/77-03/30/93	1	54.	54.	54.	54.	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/73-05/11/93	2	3.	3.	3.	3.	0.	0.	**	**	**	**

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Seasonal Analysis for Season #1: 10/01 to 3/31 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	124	7.	6.777	16.	0.	15.565	3.945	1.25	4.	10.	12.
00060	FLOW, STREAM, MEAN DAILY CFS	10/18/62-06/28/73	30	70.5	85.133	224.	23.	2246.533	47.398	31.4	46.5	112.5	160.1
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/73-05/11/93	110	111.	200.191	1610.	22.	80200.229	283.196	36.	52.75	200.5	538.5
00065	STAGE, STREAM (FEET)	05/12/86-05/11/93	14	2.625	2.757	3.97	2.04	0.365	0.604	2.145	2.29	3.05	3.95
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/02/82-05/11/93	22	0.5	1.3	15.	0.2	9.665	3.109	0.23	0.4	0.775	2.29
00080	COLOR (PLATINUM-COBALT UNITS)	10/18/62-05/29/79	31	7.	11.032	40.	0.	103.966	10.196	0.6	5.	20.	29.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	107	14.	14.477	25.	6.	7.12	2.668	12.	13.	16.	17.2
00300p	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	108	11.05	11.344	16.	7.5	2.649	1.627	9.69	10.125	12.3	13.52
00310	BOD, 5 DAY, 20 DEG C MG/L	11/01/67-07/12/78	31	0.5	0.535	1.4	0.	0.117	0.342	0.12	0.3	0.7	1.1
00400p	PH (STANDARD UNITS)	10/18/62-05/11/93	124	6.6	6.693	8.	5.5	0.299	0.547	6.	6.278	7.1	7.45
00400p	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	124	6.6	6.404	8.	5.5	0.383	0.619	6.	6.277	7.1	7.45
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	124	0.251	0.394	3.162	0.01	0.228	0.478	0.036	0.079	0.528	1.
00403	PH, LAB, STANDARD UNITS SU	10/15/80-05/11/93	29	7.1	7.114	8.2	6.5	0.198	0.445	6.6	6.85	7.35	8.
00403	CONVERTED PH, LAB, STANDARD UNITS	10/15/80-05/11/93	29	7.1	6.944	8.2	6.5	0.228	0.478	6.6	6.85	7.35	8.
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/15/80-05/11/93	29	0.079	0.114	0.316	0.006	0.008	0.092	0.01	0.045	0.142	0.251
00405	CARBON DIOXIDE (MG/L AS CO2)	10/03/72-01/03/83	37	1.3	3.295	30.	0.1	29.113	5.396	0.44	0.65	3.9	8.4
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	83	5.	5.542	19.	0.	7.129	2.67	2.4	4.	7.	8.
00440p	BICARBONATE ION (MG/L AS HCO3)	10/18/62-12/07/88	55	6.	6.455	18.	3.	6.623	2.573	3.	5.	8.	8.4
00445	CARBONATE ION (MG/L AS CO3)	11/01/67-01/03/83	41	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00600	NITROGEN, TOTAL (MG/L AS N)	10/11/73-09/08/82	23	0.35	0.487	1.7	0.11	0.145	0.38	0.16	0.24	0.72	1.06
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	11/07/73-02/11/86	22	0.11	0.26	1.5	0.	0.12	0.346	0.	0.065	0.383	0.727
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	11/07/73-09/08/82	20	0.085	0.113	0.47	0.	0.014	0.119	0.	0.018	0.155	0.268
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	11/07/73-05/11/93	44	0.01	0.026	0.15	0.005	0.001	0.032	0.005	0.005	0.04	0.075
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/07/73-11/17/92	38	0.01	0.017	0.1	0.	0.	0.021	0.005	0.005	0.02	0.031
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/18/85-05/11/93	16 ##	0.005	0.006	0.02	0.005	0.	0.004	0.005	0.005	0.005	0.01
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/17/73-11/17/92	13 ##	0.005	0.008	0.02	0.005	0.	0.004	0.005	0.005	0.01	0.016
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/03/72-05/29/79	9	0.18	0.213	0.46	0.06	0.019	0.139	0.06	0.12	0.315	0.46
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	10/11/73-08/20/91	23	0.09	0.133	0.51	0.01	0.015	0.121	0.044	0.05	0.15	0.336
00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	12/26/73-09/08/82	19	0.05	0.167	1.2	0.	0.094	0.307	0.	0.	0.13	0.66
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/11/73-05/11/93	47	0.18	0.297	1.5	0.05	0.105	0.323	0.05	0.1	0.4	0.9
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/11/73-11/17/92	35	0.2	0.207	0.63	0.	0.016	0.127	0.056	0.15	0.24	0.388
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/11/73-05/11/93	51	0.2	0.171	0.4	0.	0.007	0.083	0.05	0.1	0.2	0.2
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/01/68-11/02/82	25	0.03	0.041	0.15	0.	0.002	0.045	0.	0.	0.09	0.102
00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/09/70-05/11/93	57	0.01	0.026	0.36	0.	0.003	0.054	0.	0.005	0.02	0.044
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/11/73-05/11/93	43	0.01	0.014	0.06	0.005	0.	0.014	0.005	0.005	0.01	0.036
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/07/73-05/11/93	45	0.005	0.013	0.06	0.	0.	0.013	0.005	0.005	0.02	0.03
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/15/69-07/12/82	16	4.5	10.513	66.	0.5	257.346	16.042	0.99	2.525	13.3	35.9
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	10/11/73-09/08/82	22	3.8	5.386	20.	0.9	26.155	5.114	1.06	2.025	7.25	15.8
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/18/62-02/11/86	45	4.	4.756	9.	2.	2.416	1.554	3.	4.	6.	7.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/18/62-02/11/86	45	0.	0.622	6.	0.	1.831	1.353	0.	0.	0.5	3.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	10/18/62-05/11/93	64	1.	1.178	3.	0.7	0.223	0.472	0.8	0.9	1.3	1.85
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/18/62-05/11/93	64	0.3	0.353	1.1	0.1	0.019	0.138	0.2	0.3	0.4	0.5
00930p	SODIUM, DISSOLVED (MG/L AS NA)	10/18/62-05/11/93	64	1.1	1.086	2.	0.4	0.088	0.296	0.8	0.925	1.2	1.45
00931	SODIUM ADSORPTION RATIO	11/01/67-02/11/86	41	0.2	0.232	0.4	0.1	0.006	0.076	0.1	0.2	0.3	0.3
00932	SODIUM, PERCENT	11/01/67-02/11/86	41	32.	30.805	47.	8.	85.561	9.25	15.6	25.5	36.5	42.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	10/18/62-05/11/93	64	0.5	0.579	1.1	0.2	0.029	0.17	0.4	0.5	0.7	0.8
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/18/62-05/11/93	63	0.6	0.656	2.	0.05	0.118	0.343	0.34	0.5	0.8	1.
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/18/62-05/11/93	65	1.	1.635	5.	0.	1.118	1.057	0.5	0.9	2.	3.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	10/18/62-05/11/93	65 ##	0.05	0.077	1.3	0.	0.026	0.161	0.	0.05	0.075	0.1
00955p	SILICA, DISSOLVED (MG/L AS SI02)	10/18/62-05/11/93	64	7.2	6.959	9.5	1.	1.971	1.404	5.1	6.5	7.7	8.55
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/11/73-08/20/91	26 ##	0.5	1.942	11.	0.	10.667	3.266	0.	0.5	1.	8.9
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/22/79-05/11/93	23	9.	9.522	40.	5.	48.534	6.967	6.	6.	10.	12.
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/22/79-08/20/91	19 ##	0.25	0.353	0.7	0.25	0.03	0.174	0.25	0.25	0.5	0.7
01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/11/73-08/20/91	26 ##	0.5	1.058	4.	0.	1.147	1.071	0.35	0.5	1.25	3.
01026	CADMIUM, SUSPENDED (UG/L AS CD)	10/11/73-01/20/82	11	0.	1.818	10.	0.	16.364	4.045	0.	0.	0.	10.
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	12/12/68-08/20/91	35 ##	0.5	1.471	13.	0.	8.779	2.963	0.	0.	1.	5.1
01031	CHROMIUM, SUSPEND (UG/L AS CR)	10/11/73-01/20/82	20	4.75	5.525	20.	0.	27.144	5.21	0.	0.5	9.	10.9
01034	CHROMIUM, TOTAL (UG/L AS CR)	11/01/67-09/08/82	22 ##	10.	7.636	30.	0.	54.242	7.365	0.	0.	10.	17.
01035	COBALT, DISSOLVED (UG/L AS CO)	10/11/73-05/11/93	30 ##	1.5	1.483	9.	0.	2.336	1.528	0.	1.5	1.5	1.5

** - 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 #1: 10/01 to 3/31 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01040	COPPER, DISSOLVED (UG/L AS CU)	11/01/67-08/20/91	38 ##	1.	1.803	5.	0.	3.778	1.944	0.	0.	4.	5.
01041	COPPER, SUSPENDED (UG/L AS CU)	10/11/73-03/21/80	17	1.	3.471	17.	0.	26.39	5.137	0.	0.	6.5	12.2
01042	COPPER, TOTAL (UG/L AS CU)	10/11/73-09/08/82	20	2.	3.9	17.	0.	21.989	4.689	0.	0.25	5.	10.9
01045	IRON, TOTAL (UG/L AS FE)	08/07/68-09/08/82	20	130.	207.851	610.	0.02	37181.486	192.825	19.3	70.	330.	587.
01046p	IRON, DISSOLVED (UG/L AS FE)	11/01/67-05/11/93	45	11.	24.622	200.	0.	1335.365	36.543	3.6	7.	23.5	79.
01049	LEAD, DISSOLVED (UG/L AS PB)	11/01/67-08/20/91	38	2.	3.895	27.	0.	45.502	6.746	0.	0.	5.	8.8
01050	LEAD, SUSPENDED (UG/L AS PB)	10/11/73-02/09/81	18	6.	16.111	100.	0.	675.516	25.991	0.	0.	23.	55.
01051	LEAD, TOTAL (UG/L AS PB)	10/11/73-09/08/82	20	6.	18.35	100.	0.	600.871	24.513	0.	2.25	32.5	46.9
01054	MANGANESE, SUSPENDED (UG/L AS MN)	10/11/73-10/15/80	10	0.	6.1	30.	0.	95.656	9.78	0.	0.	10.75	28.3
01055	MANGANESE, TOTAL (UG/L AS MN)	02/01/68-09/08/82	18	5.	7.556	30.	0.	47.673	6.905	0.	5.	10.	14.7
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/21/69-05/11/93	32 ##	1.	2.531	25.	0.	19.709	4.439	0.5	0.5	2.75	5.
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/22/79-05/11/93	23 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01065p	NICKEL, DISSOLVED (UG/L AS NI)	11/01/67-05/11/93	22 ##	0.5	1.318	5.	0.	2.108	1.452	0.	0.5	2.	4.
01075	SILVER, DISSOLVED (UG/L AS AG)	10/22/79-05/11/93	23 ##	0.5	0.435	1.	0.	0.052	0.229	0.	0.5	0.5	0.5
01080p	STRONTIUM, DISSOLVED (UG/L AS SR)	02/01/68-05/11/93	25	8.	7.32	11.	0.	5.977	2.445	3.6	7.	8.5	9.
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/22/79-05/11/93	23 ##	3.	3.	3.	3.	0.	0.	3.	3.	3.	3.
01090	ZINC, DISSOLVED (UG/L AS ZN)	11/01/67-08/20/91	37 ##	2.	4.609	40.	0.	54.844	7.406	0.	0.	5.5	10.2
01091	ZINC, SUSPENDED (UG/L ZN)	10/11/73-03/21/80	16	10.	11.625	30.	0.	138.25	11.758	0.	0.	20.	30.
01092	ZINC, TOTAL (UG/L AS ZN)	10/11/73-09/08/82	19	20.	17.789	50.	0.	184.398	13.579	0.	10.	30.	40.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/21/69-05/11/93	19	20.	25.526	80.	5.	555.263	23.564	5.	5.	50.	60.
01130p	LITHIUM, DISSOLVED (UG/L AS LI)	11/01/67-05/11/93	26 ##	2.	2.577	15.	0.	8.174	2.859	0.	2.	2.	6.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/22/79-05/11/93	23 ##	0.5	0.413	0.5	0.	0.038	0.194	0.	0.5	0.5	0.5
03515p	BETA, DISSOLVED GROSS, AS CS-137, PC/L	10/03/67-03/30/93	14	0.9	0.914	1.6	0.2	0.126	0.355	0.4	0.675	1.125	1.5
03516p	BETA, SUSPENDED GROSS, AS CS-137, PC/L	10/03/67-03/30/93	14 ##	0.2	0.364	1.	0.2	0.079	0.282	0.2	0.2	0.4	0.95
09511p	RADIUM 226, DISSOLVED, RADON METHOD	10/03/67-03/30/93	13	0.04	0.037	0.07	0.01	0.	0.019	0.01	0.02	0.053	0.066
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/14/69-10/15/80	18	5.	21.5	82.	0.	704.5	26.542	0.9	1.75	46.75	64.9
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/14/69-10/15/80	18	0.661	0.864	1.914	0.	0.524	0.724	0.	0.226	1.67	1.811
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			7.31								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/07/71-07/12/78	27 ##	5.	9.13	100.	0.5	334.069	18.278	5.	5.	5.	10.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/07/71-07/12/78	27 ##	0.699	0.758	2.	-0.301	0.114	0.338	0.699	0.699	0.699	1.
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.723								
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	10/19/76-05/11/93	37	2.	5.676	110.	0.5	325.864	18.052	0.5	0.5	3.5	7.
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	10/19/76-05/11/93	37	0.301	0.247	2.041	-0.301	0.288	0.536	-0.301	-0.301	0.54	0.831
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			1.767								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/05/74-05/11/93	36	305.	458.986	2000.	0.5	224560.064	473.878	4.4	28.	740.	1130.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/05/74-05/11/93	36	2.484	2.135	3.301	-0.301	0.963	0.981	0.632	1.441	2.869	3.053
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			136.598								
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	11/17/70-05/29/79	23	0.	0.01	0.12	0.	0.001	0.027	0.	0.	0.	0.042
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/18/62-05/11/93	62	17.	17.806	42.	5.	40.159	6.337	11.	15.	20.	26.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/01/67-02/11/86	39	16.	16.231	21.	12.	6.972	2.64	13.	14.	18.	20.
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/01/67-01/03/83	40	4.62	13.195	67.9	1.19	370.692	19.253	1.763	2.633	12.618	59.52
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/01/67-01/03/83	40	0.02	0.026	0.06	0.01	0.	0.01	0.02	0.02	0.03	0.04
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/17/77-03/30/93	56	57.	58.5	100.	0.	824.727	28.718	17.	45.5	76.5	100.
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/07/73-11/17/92	24	0.01	0.017	0.1	0.005	0.	0.022	0.005	0.005	0.02	0.045
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	11/07/73-02/11/86	26	0.01	0.025	0.12	0.	0.001	0.031	0.	0.	0.05	0.066
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/18/62-08/02/71	10	0.4	0.44	0.9	0.1	0.043	0.207	0.12	0.375	0.525	0.87
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	01/26/78-11/18/85	16	0.045	0.045	0.12	0.	0.001	0.036	0.	0.008	0.06	0.099
71887	NITROGEN, TOTAL, AS NO3 - MG/L	10/11/73-09/08/82	23	1.6	2.178	7.6	0.5	2.936	1.714	0.7	1.1	3.2	4.84
71890	MERCURY, DISSOLVED (UG/L AS HG)	10/11/73-08/20/91	25 ##	0.05	0.124	0.3	0.05	0.01	0.098	0.05	0.05	0.25	0.25
71895	MERCURY, SUSPENDED (UG/L AS HG)	10/11/73-03/21/80	9	0.	0.056	0.3	0.	0.01	0.101	0.	0.	0.1	0.3
80030p	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	10/03/67-03/30/93	14 ##	0.25	0.45	2.1	0.2	0.257	0.506	0.2	0.2	0.6	1.4
80040p	ALPHA,SUSPENDED GROSS, AS URANIUM-NATURAL, UG/L	10/03/67-03/30/93	14 ##	0.2	0.271	0.9	0.2	0.035	0.186	0.2	0.2	0.3	0.6
80050p	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	10/03/67-03/30/93	14	0.85	0.836	1.3	0.2	0.089	0.298	0.35	0.675	1.1	1.25
80060p	BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L	10/03/67-03/30/93	14 ##	0.2	0.357	1.	0.2	0.075	0.274	0.2	0.2	0.375	0.95
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/73-05/11/93	84	2.	13.869	383.	0.	2426.645	49.261	0.5	1.25	5.	22.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/11/73-09/08/82	57	0.75	54.167	1670.	0.	58944.426	242.785	0.07	0.275	2.4	87.8

** - 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: 4/01 to 9/30 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	105	14.	13.748	19.	6.	8.976	2.996	8.92	12.	16.	17.
00060	FLOW, STREAM, MEAN DAILY CFS	10/18/62-06/28/73	33	74.	121.667	1080.	29.	32848.979	181.243	40.4	55.5	114.	177.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/73-05/11/93	105	75.	115.019	1550.	26.	26790.788	163.679	37.2	47.	127.5	200.2
00065	STAGE, STREAM (FEET)	05/12/86-05/11/93	15	2.43	2.499	3.37	2.07	0.115	0.34	2.112	2.25	2.74	3.034
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/02/82-05/11/93	21	0.8	1.943	17.	0.2	13.579	3.685	0.32	0.5	1.25	5.4
00080	COLOR (PLATINUM-COBALT UNITS)	10/18/62-05/29/79	29	6.	7.966	25.	0.	44.177	6.647	0.	3.5	10.	20.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	96	16.	16.542	35.	6.	22.188	4.71	13.	14.	17.	23.6
00300p	OXYGEN, DISSOLVED MG/L	03/05/68-05/11/93	97	9.5	9.689	14.8	6.3	1.758	1.326	8.	9.	10.15	11.28
00310	BOD, 5 DAY, 20 DEG C MG/L	11/01/67-07/12/78	43	0.7	0.751	2.6	0.1	0.216	0.465	0.24	0.4	1.	1.2
00400p	PH (STANDARD UNITS)	10/18/62-05/11/93	112	6.8	6.769	9.	5.4	0.35	0.592	6.03	6.3	7.16	7.47
00400p	CONVERTED PH (STANDARD UNITS)	10/18/62-05/11/93	112	6.8	6.404	9.	5.4	0.485	0.696	6.03	6.3	7.16	7.47
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/62-05/11/93	112	0.158	0.395	3.981	0.001	0.438	0.662	0.034	0.069	0.501	0.938
00403	PH, LAB, STANDARD UNITS SU	10/15/80-05/11/93	28	7.3	7.311	8.4	6.5	0.238	0.488	6.7	6.9	7.675	8.01
00403	CONVERTED PH, LAB, STANDARD UNITS	10/15/80-05/11/93	28	7.3	7.092	8.4	6.5	0.288	0.537	6.7	6.9	7.675	8.01
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/15/80-05/11/93	28	0.05	0.081	0.316	0.004	0.006	0.077	0.01	0.021	0.126	0.2
00405	CARBON DIOXIDE (MG/L AS CO2)	10/03/72-01/03/83	28	1.25	5.218	51.	0.2	109.259	10.453	0.2	0.8	4.3	19.1
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	91	5.	5.341	11.	0.	2.96	1.721	4.	5.	6.	7.
00440p	BICARBONATE ION (MG/L AS HCO3)	10/18/62-12/07/88	50	6.	6.42	11.	2.	2.738	1.655	5.	6.	7.	8.
00445	CARBONATE ION (MG/L AS CO3)	11/01/67-01/03/83	30	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00600	NITROGEN, TOTAL (MG/L AS N)	10/11/73-09/08/82	19	0.32	0.344	0.67	0.06	0.027	0.165	0.14	0.24	0.45	0.6
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	11/07/73-02/11/86	18	0.12	0.182	0.46	0.	0.02	0.141	0.018	0.068	0.303	0.406
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	11/07/73-09/08/82	18	0.105	0.172	0.57	0.	0.029	0.17	0.	0.035	0.273	0.453
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	11/07/73-05/11/93	41	0.02	0.022	0.1	0.	0.001	0.022	0.005	0.005	0.03	0.06
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/07/73-11/17/92	34 ##	0.008	0.016	0.1	0.005	0.	0.019	0.005	0.005	0.02	0.035
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/18/85-05/11/93	15 ##	0.005	0.005	0.01	0.005	0.	0.001	0.005	0.005	0.005	0.007
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/17/73-11/17/92	16 ##	0.005	0.006	0.01	0.004	0.	0.002	0.005	0.005	0.005	0.01
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/03/72-05/29/79	12	0.14	0.121	0.17	0.02	0.002	0.044	0.032	0.095	0.148	0.167
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	10/11/73-08/20/91	19	0.13	0.201	0.6	0.01	0.032	0.178	0.02	0.05	0.3	0.54
00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	12/26/73-09/08/82	17	0.02	0.032	0.15	0.	0.002	0.044	0.	0.	0.04	0.118
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/11/73-05/11/93	41	0.15	0.246	1.9	0.03	0.094	0.307	0.052	0.1	0.3	0.484
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/11/73-11/17/92	26	0.16	0.157	0.21	0.06	0.001	0.036	0.104	0.14	0.18	0.2
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/11/73-05/11/93	43	0.2	0.16	0.2	0.05	0.003	0.054	0.094	0.1	0.2	0.2
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/01/68-11/02/82	16	0.03	0.043	0.21	0.	0.004	0.061	0.	0.005	0.03	0.189
00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/09/70-05/11/93	46	0.02	0.024	0.13	0.	0.001	0.028	0.005	0.01	0.02	0.059
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/11/73-05/11/93	41	0.01	0.014	0.05	0.005	0.	0.01	0.005	0.01	0.02	0.028
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/07/73-05/11/93	36	0.01	0.013	0.07	0.005	0.	0.016	0.005	0.005	0.01	0.032
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/15/69-07/12/82	16	4.55	8.088	37.	0.5	107.968	10.391	1.34	1.75	6.925	30.7
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	10/11/73-09/08/82	15	3.1	5.48	28.	1.5	48.22	6.944	1.5	1.6	5.	19.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/18/62-02/11/86	38	4.	4.868	12.	2.	6.171	2.484	2.	4.	5.	10.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/18/62-02/11/86	38	0.	0.842	7.	0.	3.434	1.853	0.	0.	1.	4.2
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	10/18/62-05/11/93	59	1.1	1.202	3.6	0.2	0.401	0.633	0.6	1.	1.2	1.8
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/18/62-05/11/93	59	0.3	0.381	1.1	0.1	0.037	0.193	0.2	0.3	0.4	0.6
00930p	SODIUM, DISSOLVED (MG/L AS NA)	10/18/62-05/11/93	59	1.2	1.181	2.	0.5	0.061	0.246	0.9	1.1	1.3	1.5
00931	SODIUM ADSORPTION RATIO	11/01/67-02/11/86	31	0.2	0.248	0.4	0.1	0.008	0.089	0.1	0.2	0.3	0.4
00932	SODIUM, PERCENT	11/01/67-02/11/86	31	35.	33.484	54.	9.	114.258	10.689	17.2	29.	38.	47.8
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	10/18/62-05/11/93	59	0.6	0.603	1.3	0.2	0.031	0.176	0.4	0.5	0.7	0.8
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/18/62-05/11/93	59	0.6	0.722	2.	0.	0.135	0.368	0.4	0.5	0.9	1.
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/18/62-05/11/93	59	1.	1.463	4.	0.4	0.844	0.919	0.5	0.9	2.	3.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	10/18/62-05/11/93	58	0.05	0.066	0.3	0.	0.002	0.05	0.	0.05	0.1	0.1
00955p	SILICA, DISSOLVED (MG/L AS SI02)	10/18/62-05/11/93	59	7.9	7.747	10.	1.1	1.645	1.282	6.7	7.4	8.4	9.1
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/11/73-08/20/91	20 ##	0.5	0.575	1.	0.	0.06	0.245	0.5	0.5	0.5	1.
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/22/79-05/11/93	20	8.	8.9	24.	1.	17.884	4.229	6.1	7.	10.	11.
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/22/79-08/20/91	17 ##	0.25	0.279	0.5	0.25	0.007	0.083	0.25	0.25	0.25	0.5
01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/11/73-08/20/91	20 ##	0.5	0.675	3.	0.	0.349	0.591	0.5	0.5	0.5	1.
01026	CADMIUM, SUSPENDED (UG/L AS CD)	10/11/73-01/20/82	4	0.	0.	0.	0.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	12/12/68-08/20/91	28 ##	0.5	0.464	2.	0.	0.276	0.526	0.	0.	0.5	1.1
01031	CHROMIUM, SUSPEND (UG/L AS CR)	10/11/73-01/20/82	11	9.	10.364	20.	0.	67.455	8.213	0.	5.	20.	20.
01034	CHROMIUM, TOTAL (UG/L AS CR)	11/01/67-09/08/82	13 ##	10.	11.154	20.	0.	50.641	7.116	0.	7.5	20.	20.
01035	COBALT, DISSOLVED (UG/L AS CO)	10/11/73-05/11/93	23 ##	1.5	1.435	2.	0.	0.121	0.347	1.2	1.5	1.5	1.5

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

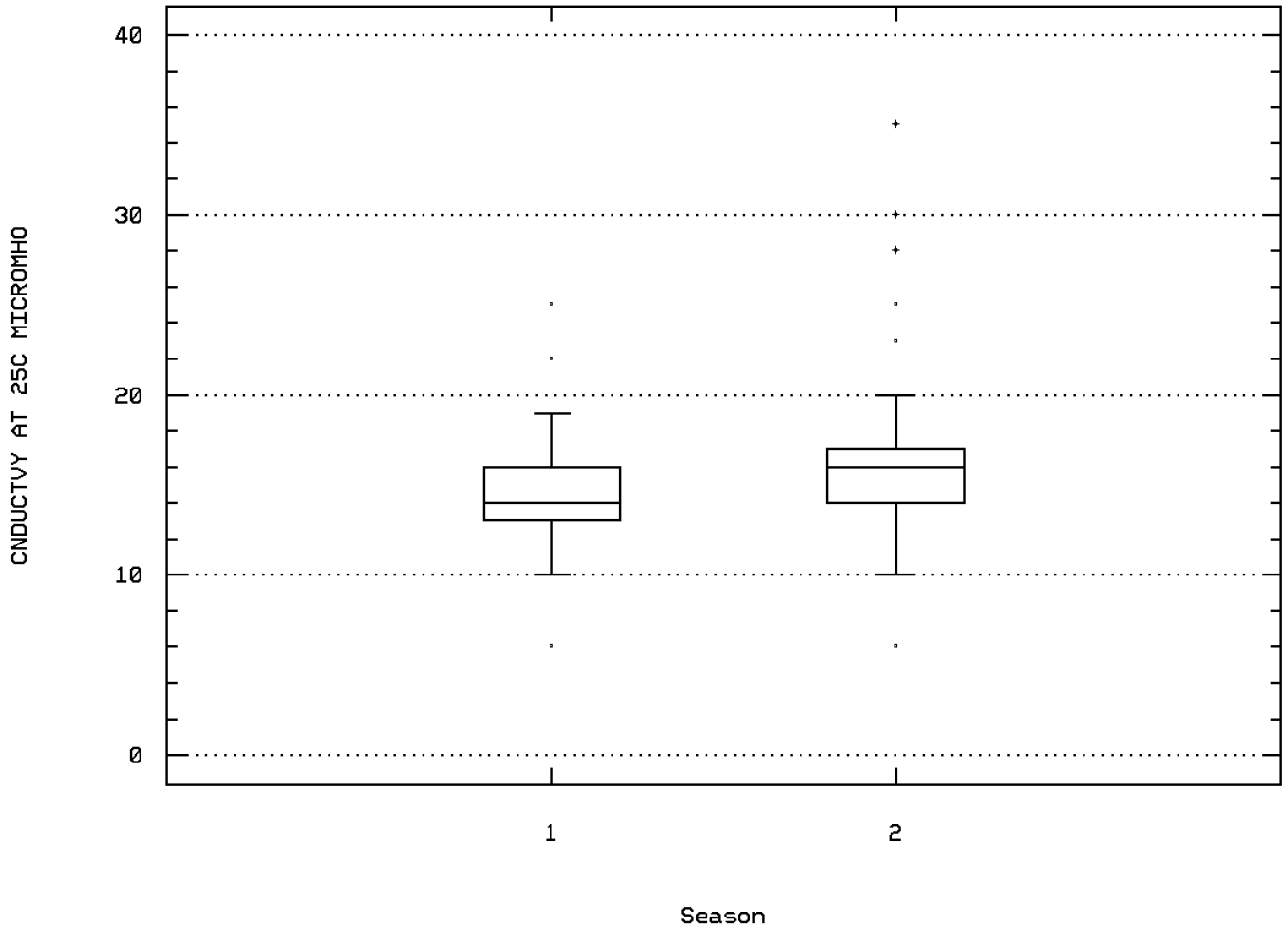
Seasonal Analysis for Season #2: 4/01 to 9/30 - Station GRSM0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01040	COPPER, DISSOLVED (UG/L AS CU)	11/01/67-08/20/91	29	1.	1.655	6.	0.	3.555	1.886	0.	0.	2.	5.
01041	COPPER, SUSPENDED (UG/L AS CU)	10/11/73-03/21/80	12	3.5	5.167	23.	0.	42.697	6.534	0.	0.25	6.75	19.4
01042	COPPER, TOTAL (UG/L AS CU)	10/11/73-09/08/82	14	5.	5.786	23.	0.	35.72	5.977	0.5	1.	7.75	17.
01045	IRON, TOTAL (UG/L AS FE)	08/07/68-09/08/82	16	70.	66.688	110.	17.	1002.229	31.658	19.1	40.	100.	103.
01046p	IRON, DISSOLVED (UG/L AS FE)	11/01/67-05/11/93	37	16.	15.676	30.	5.	72.392	8.508	5.	8.	21.	30.
01049	LEAD, DISSOLVED (UG/L AS PB)	11/01/67-08/20/91	28 ##	2.	2.161	6.	0.	3.297	1.816	0.	0.5	2.875	5.1
01050	LEAD, SUSPENDED (UG/L AS PB)	10/11/73-02/09/81	12	3.5	17.583	88.	0.	742.265	27.245	0.	2.	27.	77.2
01051	LEAD, TOTAL (UG/L AS PB)	10/11/73-09/08/82	14	5.	17.643	88.	1.	669.016	25.865	2.	3.75	29.25	73.
01054	MANGANESE, SUSPENDED (UG/L AS MN)	10/11/73-10/15/80	3	0.	0.	0.	0.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	02/01/68-09/08/82	10 ##	5.	7.2	20.	0.	43.956	6.63	0.	3.75	11.75	19.7
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/21/69-05/11/93	24	1.	3.125	17.	0.5	22.484	4.742	0.5	0.625	2.	13.5
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/22/79-05/11/93	20 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01065p	NICKEL, DISSOLVED (UG/L AS NI)	11/01/67-05/11/93	18 ##	0.5	1.111	6.	0.5	1.81	1.346	0.5	0.5	1.25	2.4
01075	SILVER, DISSOLVED (UG/L AS AG)	10/22/79-05/11/93	20 ##	0.5	0.5	1.	0.	0.026	0.162	0.5	0.5	0.5	0.5
01080p	STRONTIUM, DISSOLVED (UG/L AS SR)	02/01/68-05/11/93	22	9.5	12.591	60.	8.	132.253	11.5	8.	9.	10.	24.3
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/22/79-05/11/93	20 ##	3.	3.	3.	3.	0.	0.	3.	3.	3.	3.
01090	ZINC, DISSOLVED (UG/L AS ZN)	11/01/67-08/20/91	29 ##	3.	3.948	14.	0.	14.72	3.837	0.	1.5	6.	10.
01091	ZINC, SUSPENDED (UG/L ZN)	10/11/73-03/21/80	12	10.	14.167	40.	0.	190.152	13.79	0.	0.	27.5	37.
01092	ZINC, TOTAL (UG/L AS ZN)	10/11/73-09/08/82	14	20.	17.357	40.	0.	168.555	12.983	0.	8.25	22.5	40.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/21/69-05/11/93	19	20.	21.842	100.	5.	453.363	21.292	5.	5.	20.	40.
01130p	LITHIUM, DISSOLVED (UG/L AS LI)	11/01/67-05/11/93	20 ##	2.	2.85	8.	2.	2.766	1.663	2.	2.	3.5	5.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/22/79-05/11/93	20 ##	0.5	0.475	0.5	0.	0.013	0.112	0.5	0.5	0.5	0.5
03515p	BETA, DISSOLVED GROSS, AS CS-137, PC/L	10/03/67-03/30/93	12	0.8	1.025	3.4	0.2	0.693	0.832	0.29	0.525	1.15	2.86
03516p	BETA, SUSPENDED GROSS, AS CS-137, PC/L	10/03/67-03/30/93	12 ##	0.3	1.742	17.	0.2	23.168	4.813	0.2	0.2	0.45	12.26
09511p	RADIUM 226, DISSOLVED, RADON METHOD	10/03/67-03/30/93	12	0.04	0.041	0.07	0.02	0.	0.014	0.023	0.03	0.05	0.067
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/14/69-10/15/80	20	35.5	106.1	900.	3.	40232.516	200.58	5.2	11.	94.5	253.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/14/69-10/15/80	20	1.55	1.562	2.954	0.477	0.427	0.653	0.714	1.037	1.975	2.401
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			36.502								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/07/71-07/12/78	40	10.	338.163	12000.	0.5	3594697.774	1895.969	4.1	5.	20.	85.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/07/71-07/12/78	40	1.	1.104	4.079	-0.301	0.533	0.73	0.612	0.699	1.301	1.919
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			12.699								
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	10/19/76-05/11/93	35	8.	28.314	320.	1.	3981.81	63.102	1.6	4.	18.	71.2
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	10/19/76-05/11/93	35	0.903	0.967	2.505	0.	0.369	0.608	0.181	0.602	1.255	1.845
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			9.261								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/05/74-05/11/93	35	850.	1979.257	13000.	14.	7252821.432	2693.106	48.4	240.	3100.	4740.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/05/74-05/11/93	35	2.929	2.855	4.114	1.146	0.563	0.75	1.671	2.38	3.491	3.676
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			716.499								
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	11/17/70-05/29/79	14	0.	0.023	0.11	0.	0.002	0.042	0.	0.	0.038	0.105
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/18/62-05/11/93	59	18.	19.746	44.	9.	54.814	7.404	12.	15.	22.	30.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/01/67-02/11/86	30	16.5	16.833	23.	14.	4.833	2.198	14.	15.	18.	20.
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/01/67-01/03/83	31	3.3	5.131	26.9	1.81	25.78	5.077	2.09	2.48	5.58	10.738
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/01/67-01/03/83	31	0.03	0.029	0.06	0.02	0.	0.011	0.02	0.02	0.03	0.05
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/17/77-03/30/93	42	61.	60.024	100.	0.	643.78	25.373	30.	39.5	80.	97.
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/07/73-11/17/92	17	0.01	0.009	0.02	0.005	0.	0.004	0.005	0.005	0.01	0.012
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	11/07/73-02/11/86	20	0.01	0.022	0.13	0.	0.001	0.033	0.	0.	0.04	0.059
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/18/62-08/02/71	14	0.5	0.586	2.7	0.	0.455	0.675	0.	0.175	0.7	1.85
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	01/26/78-11/18/85	15	0.06	0.122	0.4	0.	0.015	0.124	0.	0.06	0.15	0.382
71887	NITROGEN, TOTAL, AS NO3 - MG/L	10/11/73-09/08/82	19	1.4	1.537	3.	0.3	0.538	0.733	0.6	1.1	2.	2.7
71890	MERCURY, DISSOLVED (UG/L AS HG)	10/11/73-08/20/91	18 ##	0.05	0.106	0.4	0.05	0.011	0.106	0.05	0.05	0.138	0.265
71895	MERCURY, SUSPENDED (UG/L AS HG)	10/11/73-03/21/80	3	0.1	0.067	0.1	0.	0.003	0.058	**	**	**	**
80030p	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	10/03/67-03/30/93	12 ##	0.3	0.388	1.3	0.2	0.11	0.332	0.2	0.2	0.338	1.15
80040p	ALPHA,SUSPENDED GROSS, AS URANIUM-NATURAL, UG/L	10/03/67-03/30/93	12 ##	0.225	2.054	21.	0.2	35.693	5.974	0.2	0.2	0.3	15.09
80050p	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	10/03/67-03/30/93	12	0.75	0.908	2.9	0.2	0.504	0.71	0.23	0.5	1.05	2.45
80060p	BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L	10/03/67-03/30/93	12 ##	0.3	1.392	13.	0.2	13.415	3.663	0.2	0.2	0.45	9.4
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/73-05/11/93	66	3.	8.909	225.	0.	796.945	28.23	1.	2.	6.	9.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/11/73-09/08/82	44	0.575	1.573	17.	0.08	9.12	3.02	0.155	0.31	1.375	3.95

** - Less 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: GRSM0184 Parameter Code: 00095

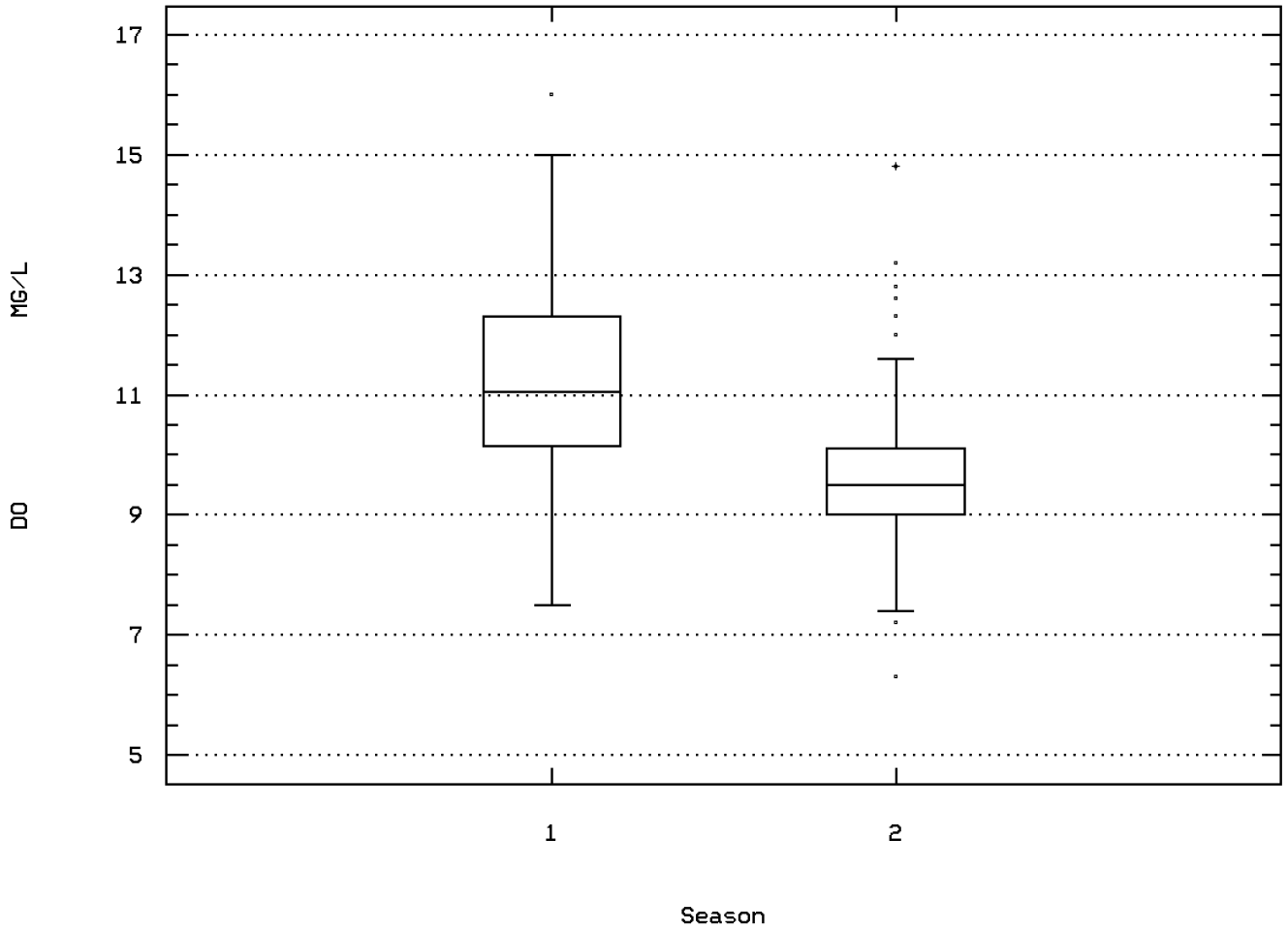
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



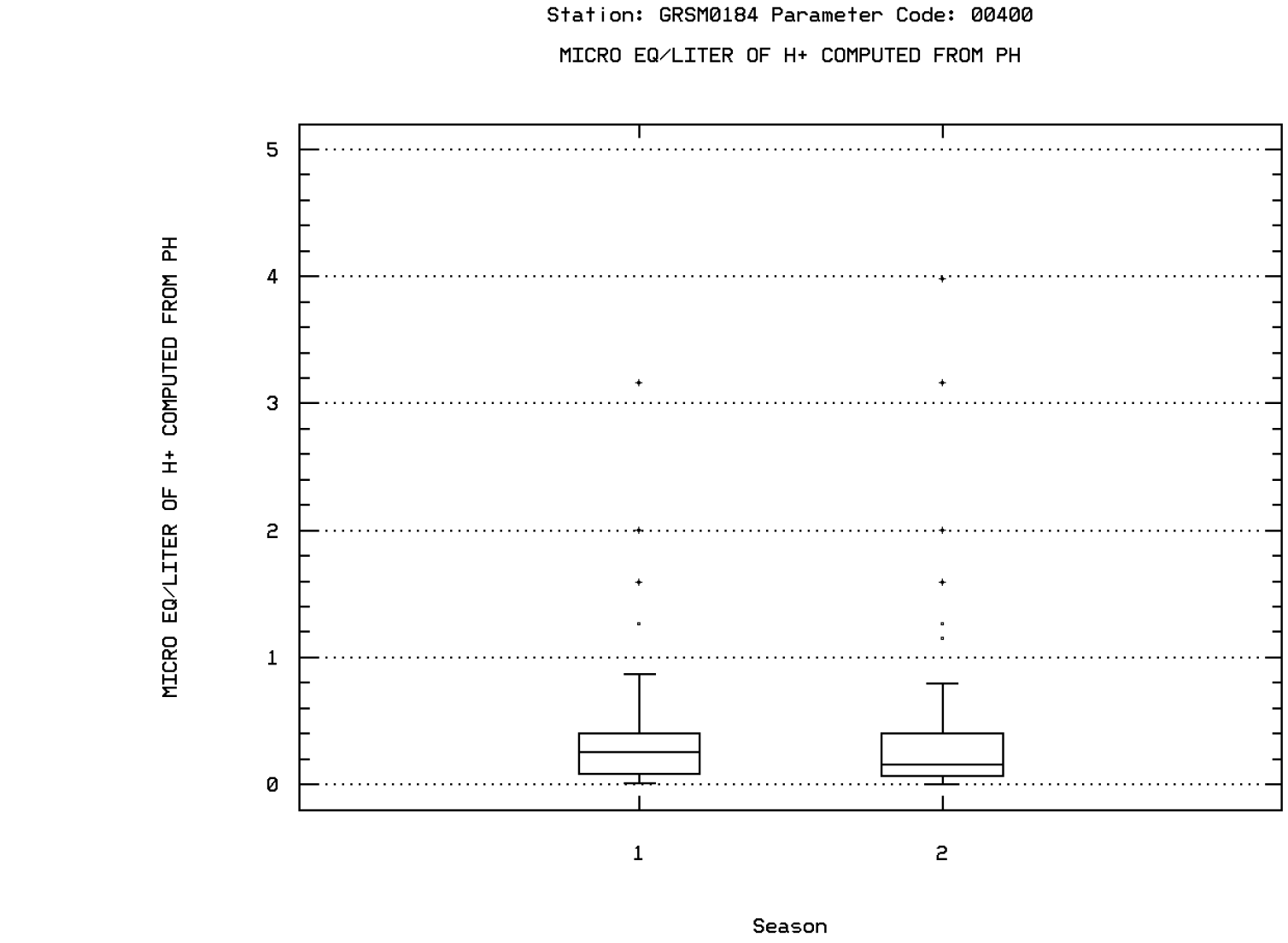
CATALOOCHEE CREEK NEAR CATALOOCHEE N C

Station: GRSM0184 Parameter Code: 00300

OXYGEN, DISSOLVED



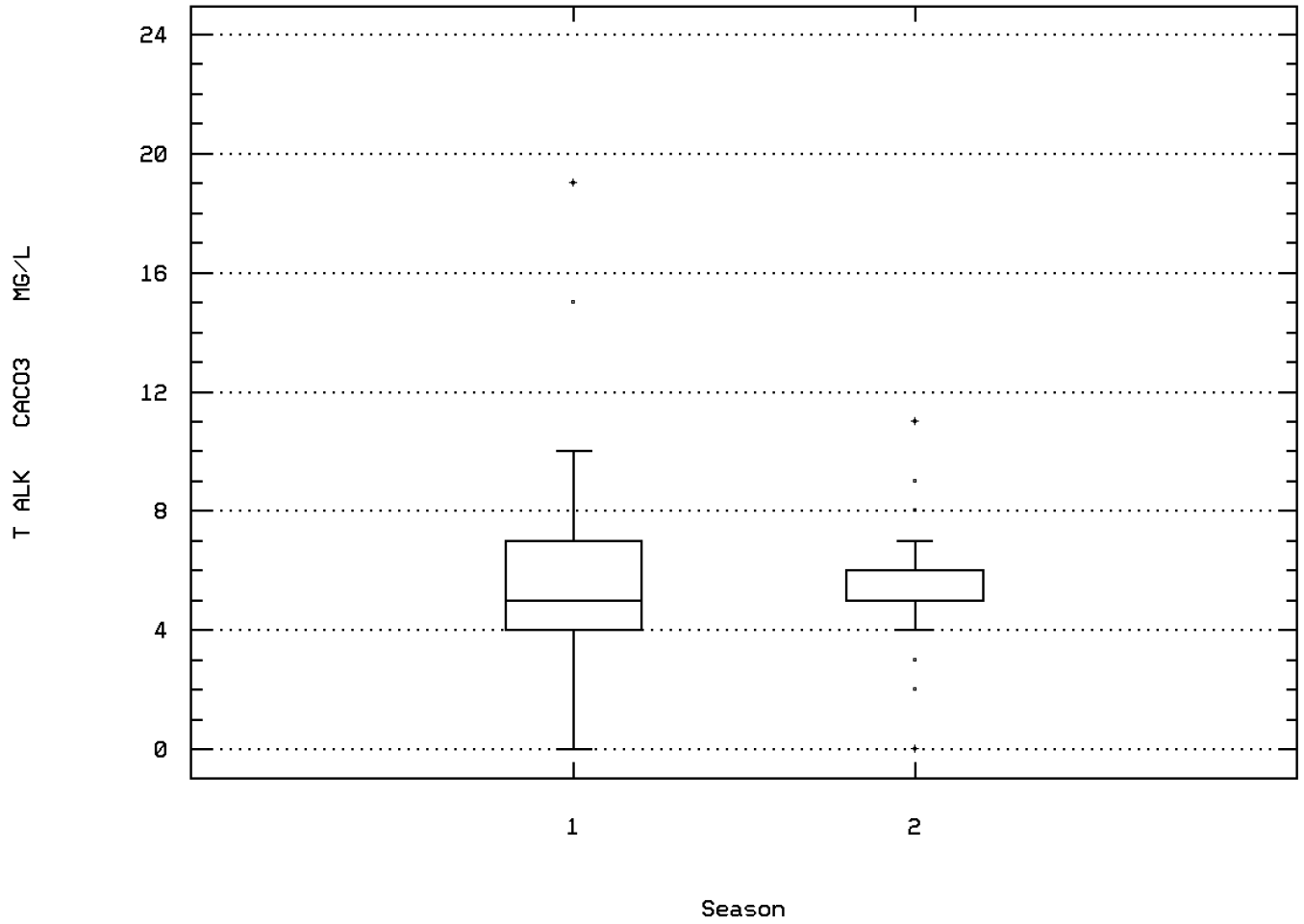
CATALOOCHEE CREEK NEAR CATALOOCHEE N C



CATALOOCHEE CREEK NEAR CATALOOCHEE N C

Station: GRSM0184 Parameter Code: 00410

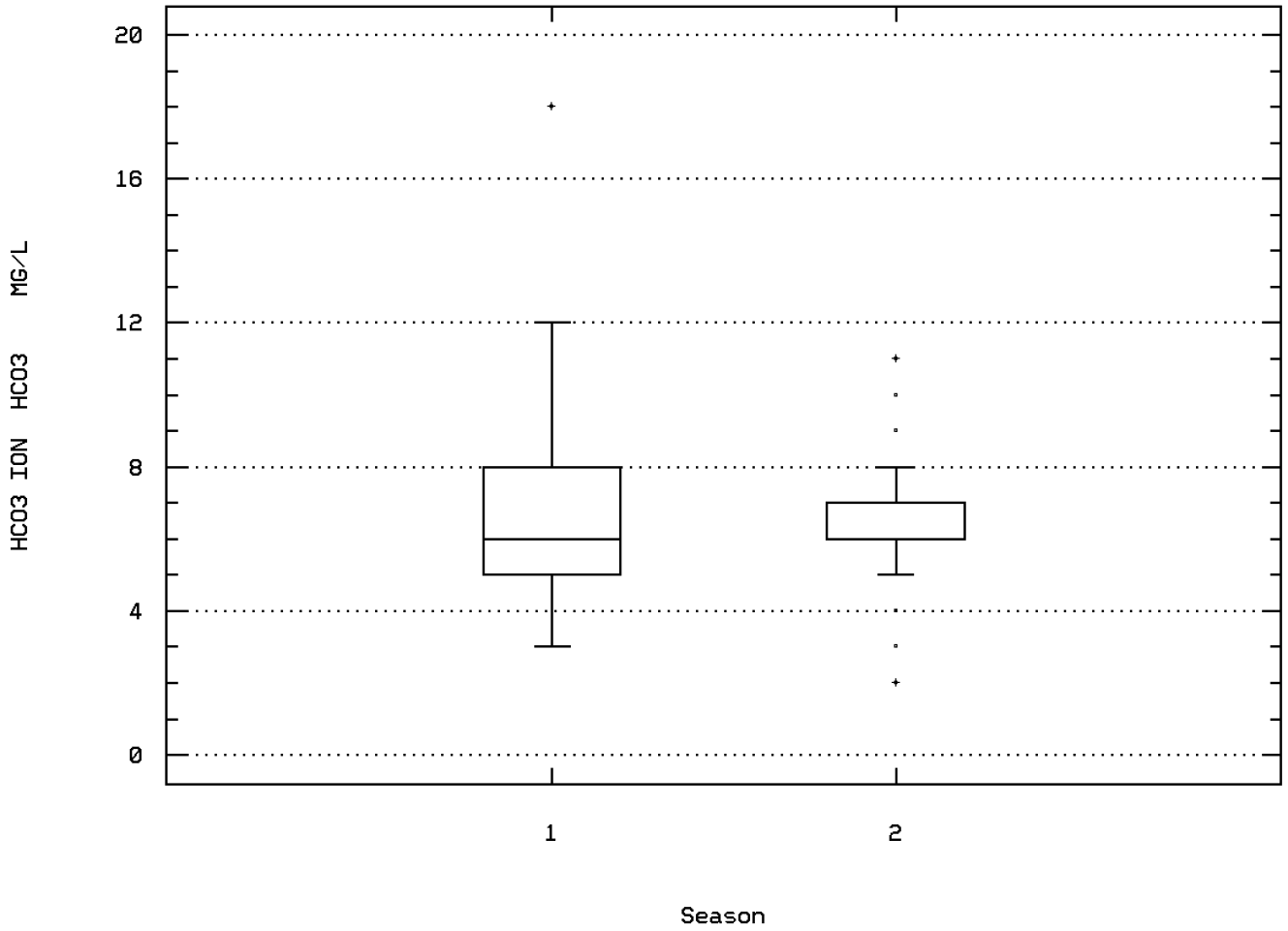
ALKALINITY, TOTAL (MG/L AS CACO3)



CATALOOCHEE CREEK NEAR CATALOOCHEE N C

Station: GRSM0184 Parameter Code: 00440

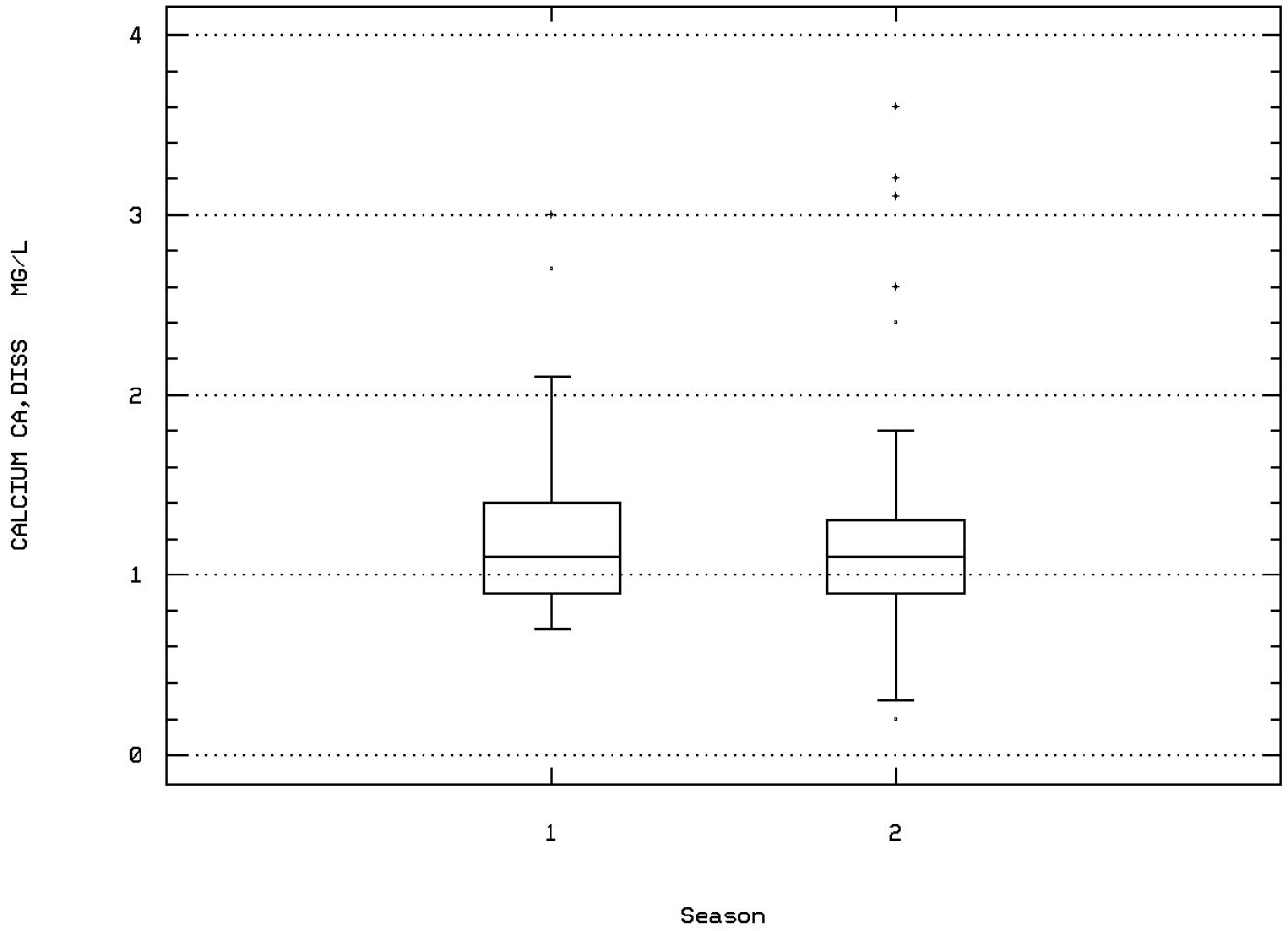
BICARBONATE ION (MG/L AS HCO3)



CATALOOCHEE CREEK NEAR CATALOOCHEE N C

Station: GRSM0184 Parameter Code: 00915

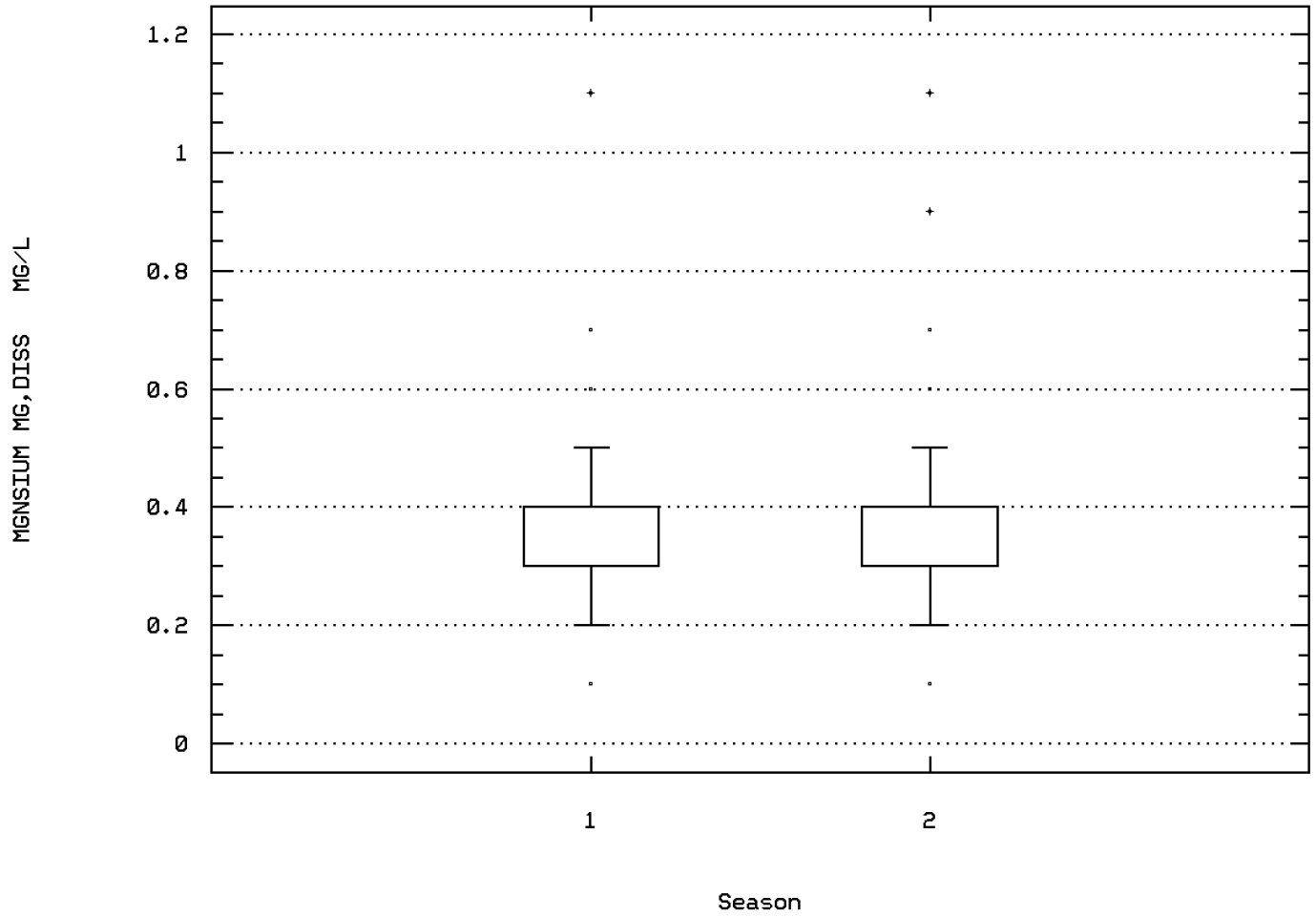
CALCIUM, DISSOLVED (MG/L AS CA)



CATALOOCHEE CREEK NEAR CATALOOCHEE N C

Station: GRSM0184 Parameter Code: 00925

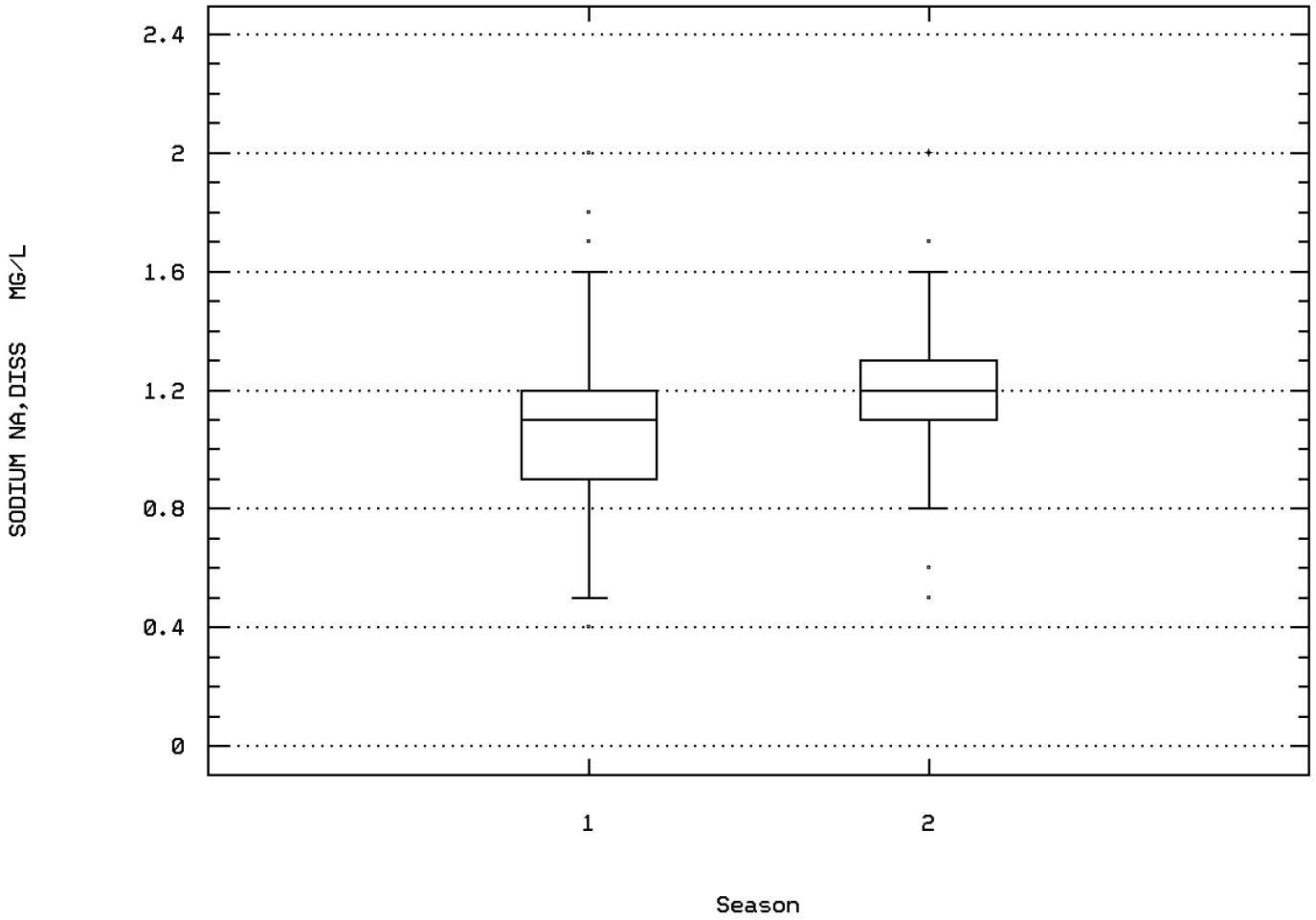
MAGNESIUM, DISSOLVED (MG/L AS MG)



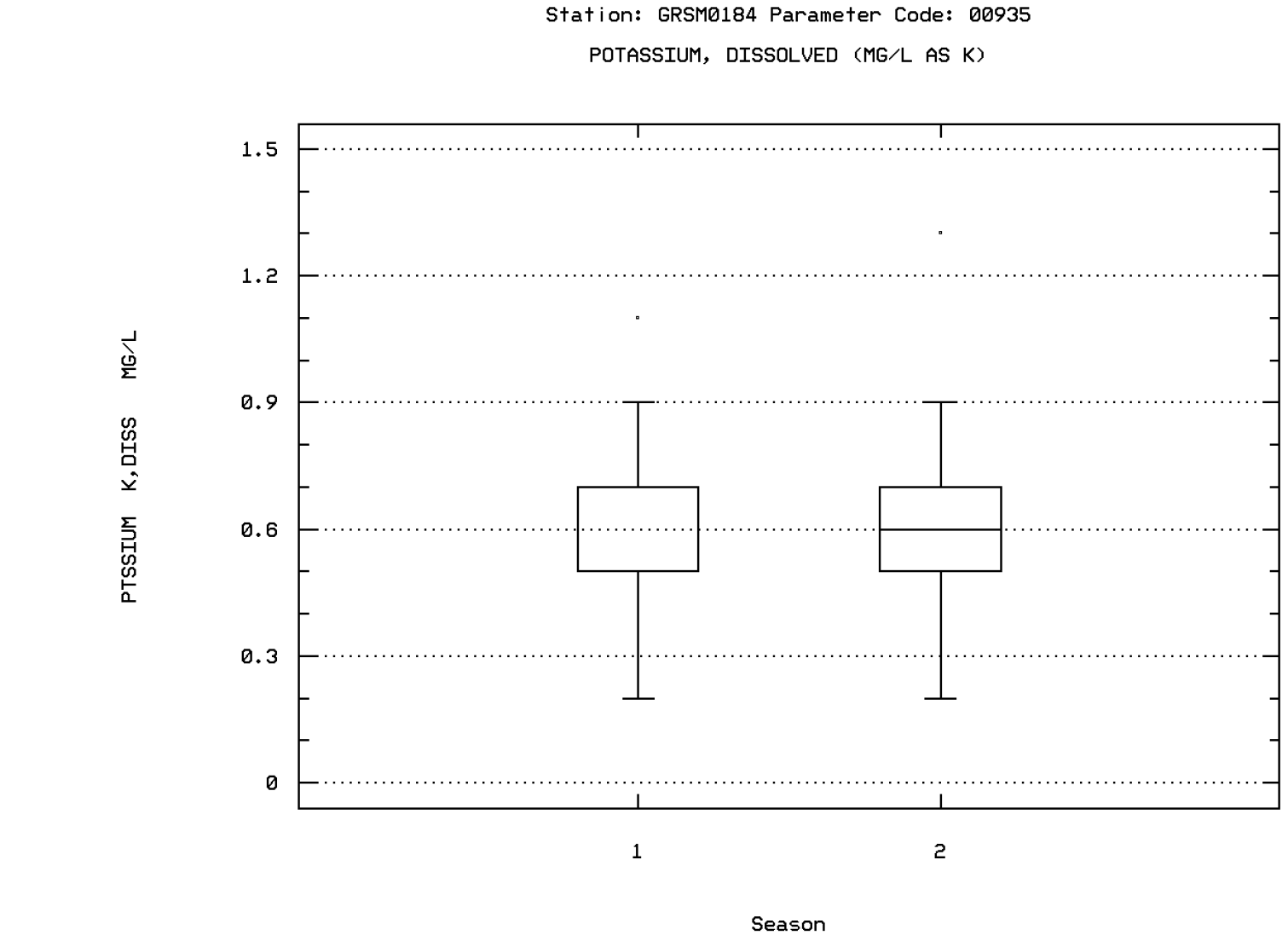
CATALOOCHEE CREEK NEAR CATALOOCHEE N C

Station: GRSM0184 Parameter Code: 00930

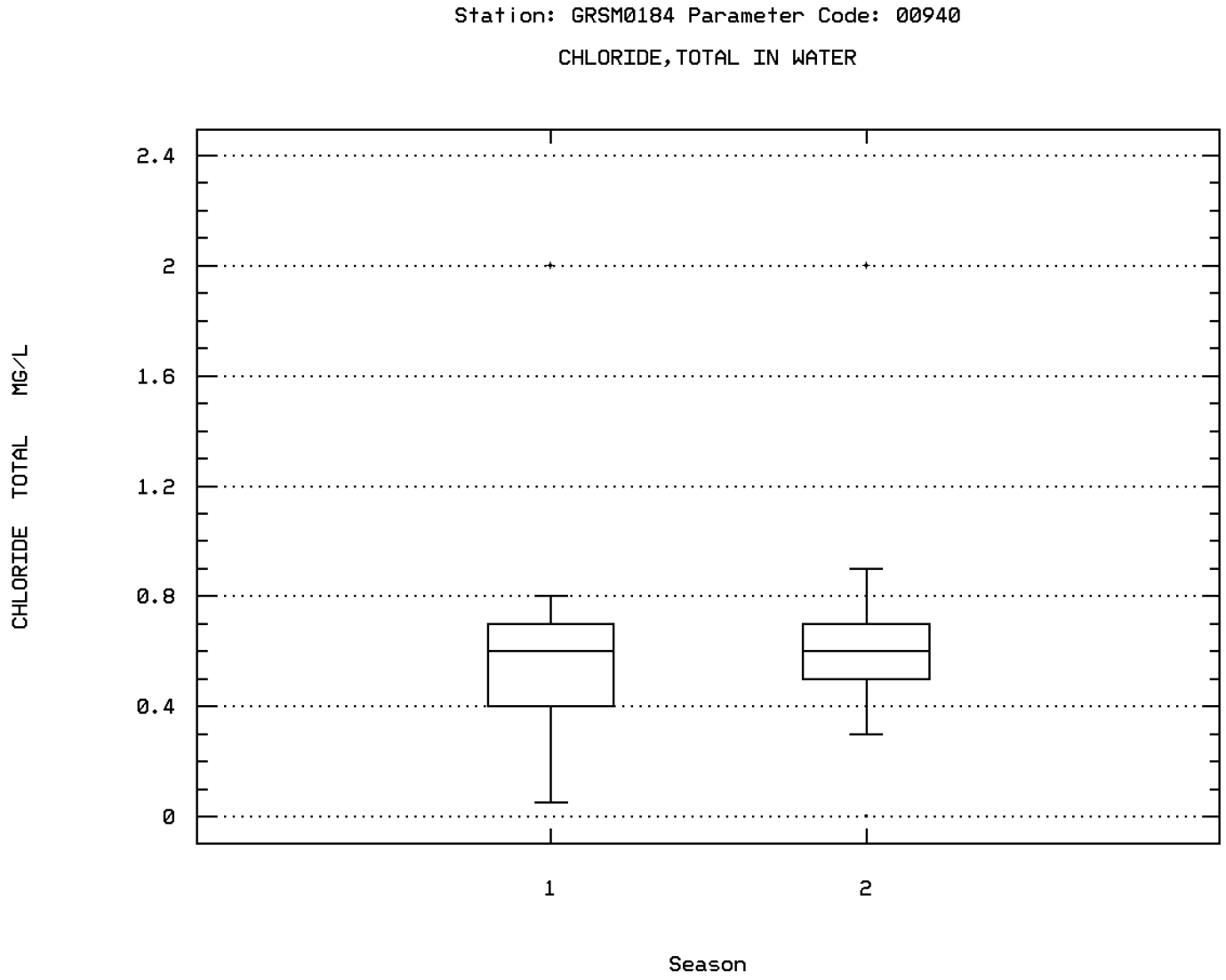
SODIUM, DISSOLVED (MG/L AS NA)



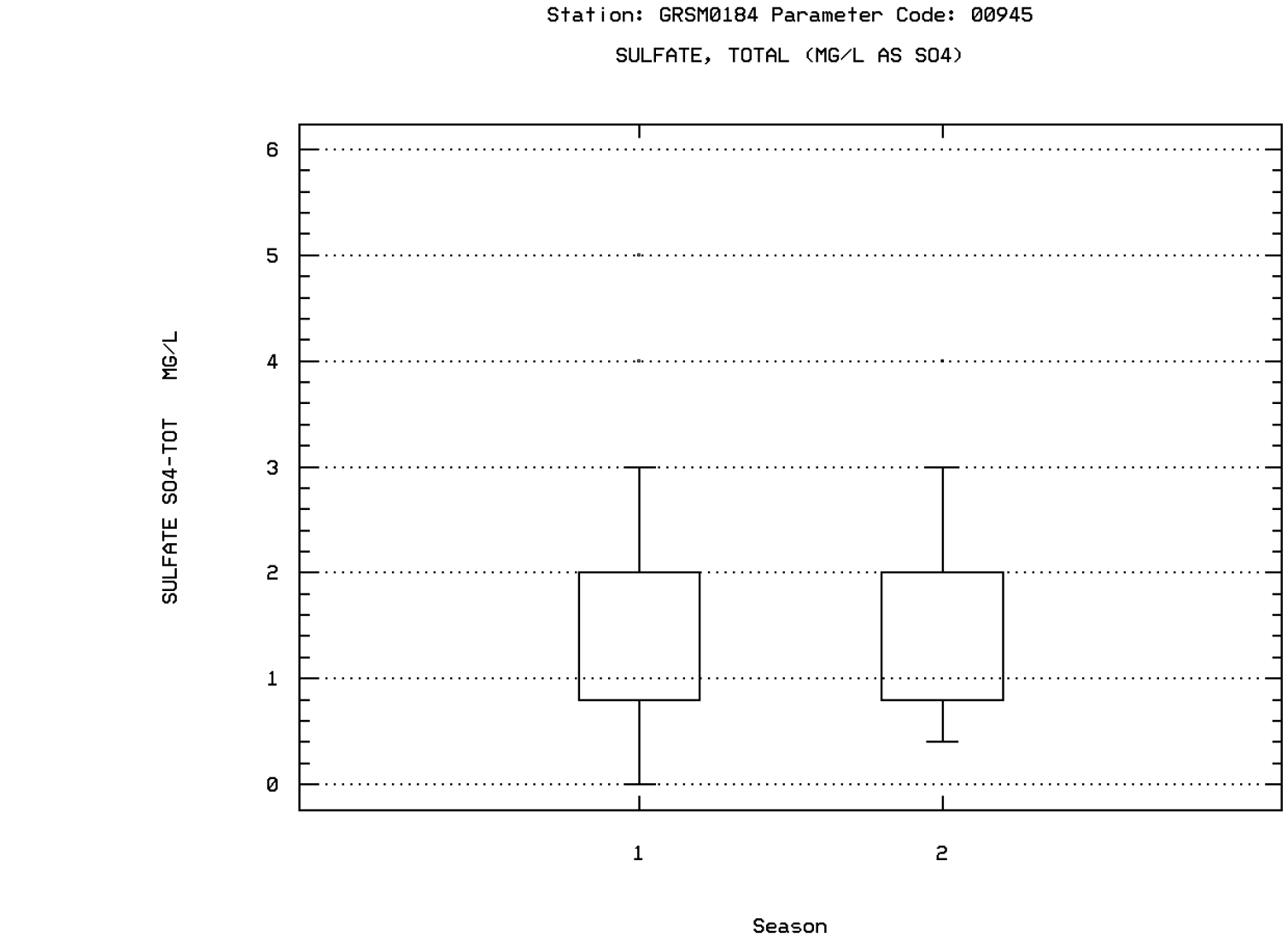
CATALOOCHEE CREEK NEAR CATALOOCHEE N C



CATALOOCHEE CREEK NEAR CATALOOCHEE N C



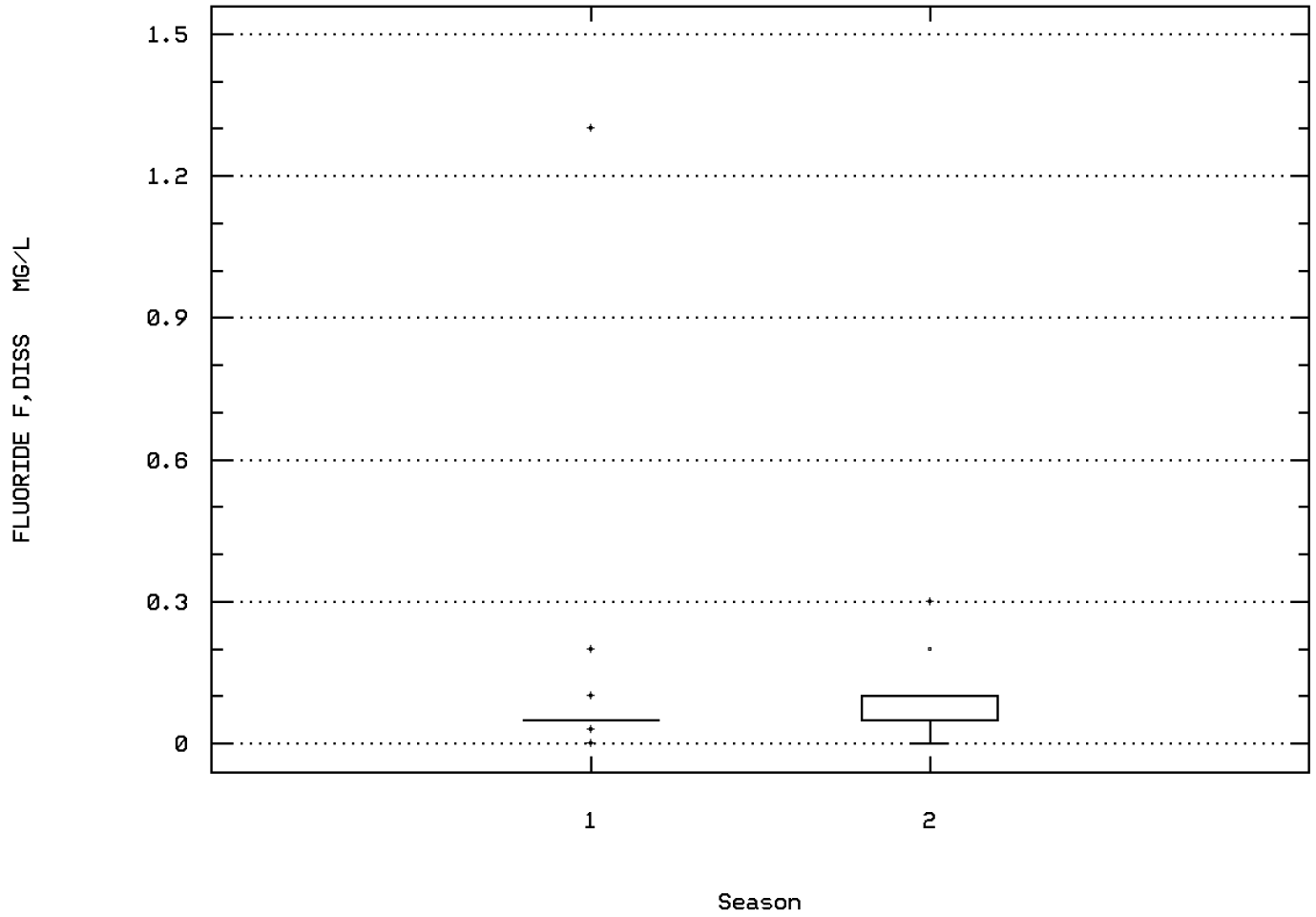
CATALOOCHEE CREEK NEAR CATALOOCHEE N C



CATALOOCHEE CREEK NEAR CATALOOCHEE N C

Station: GRSM0184 Parameter Code: 00950

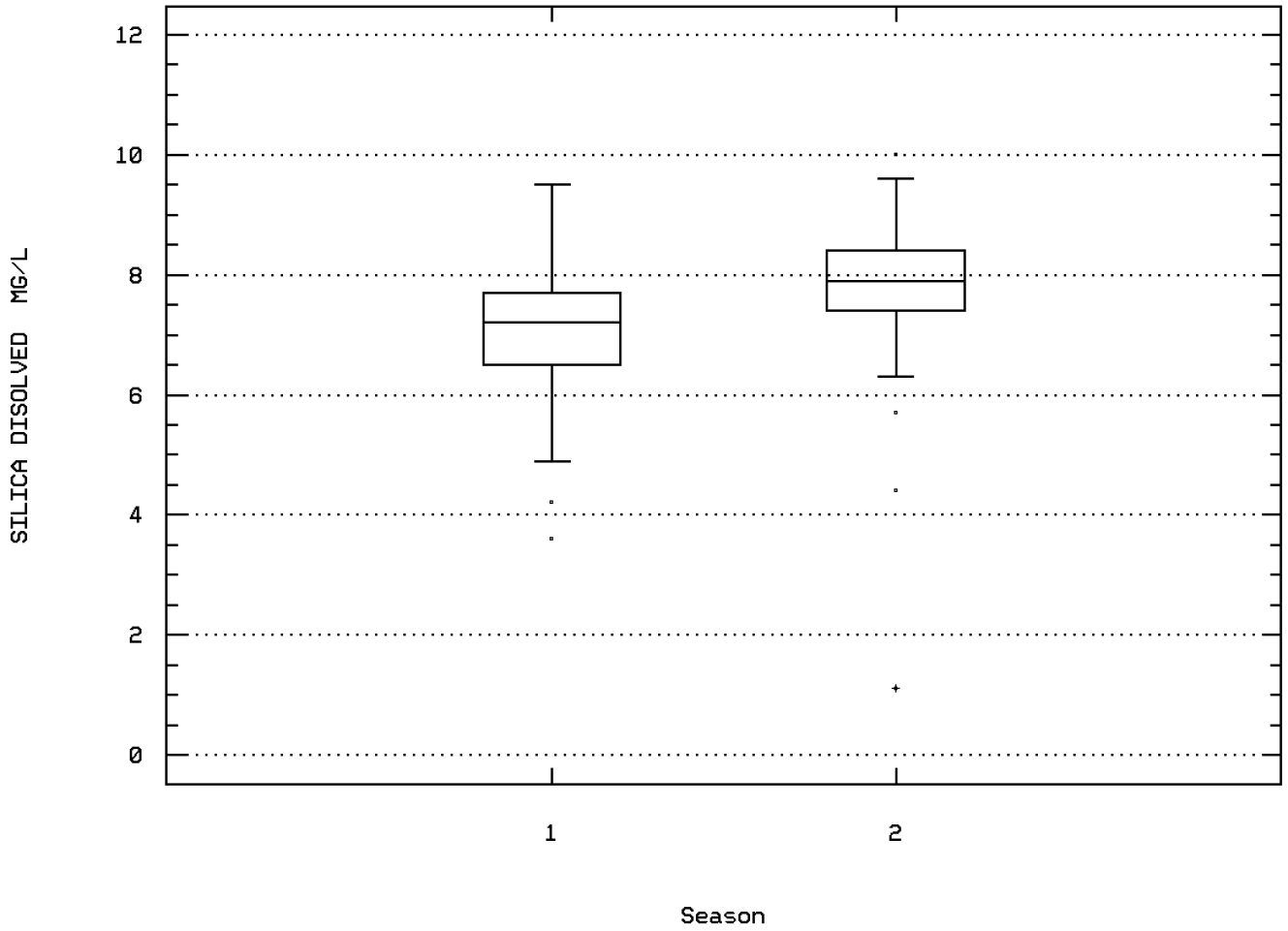
FLUORIDE, DISSOLVED (MG/L AS F)



CATALOOCHEE CREEK NEAR CATALOOCHEE N C

Station: GRSM0184 Parameter Code: 00955

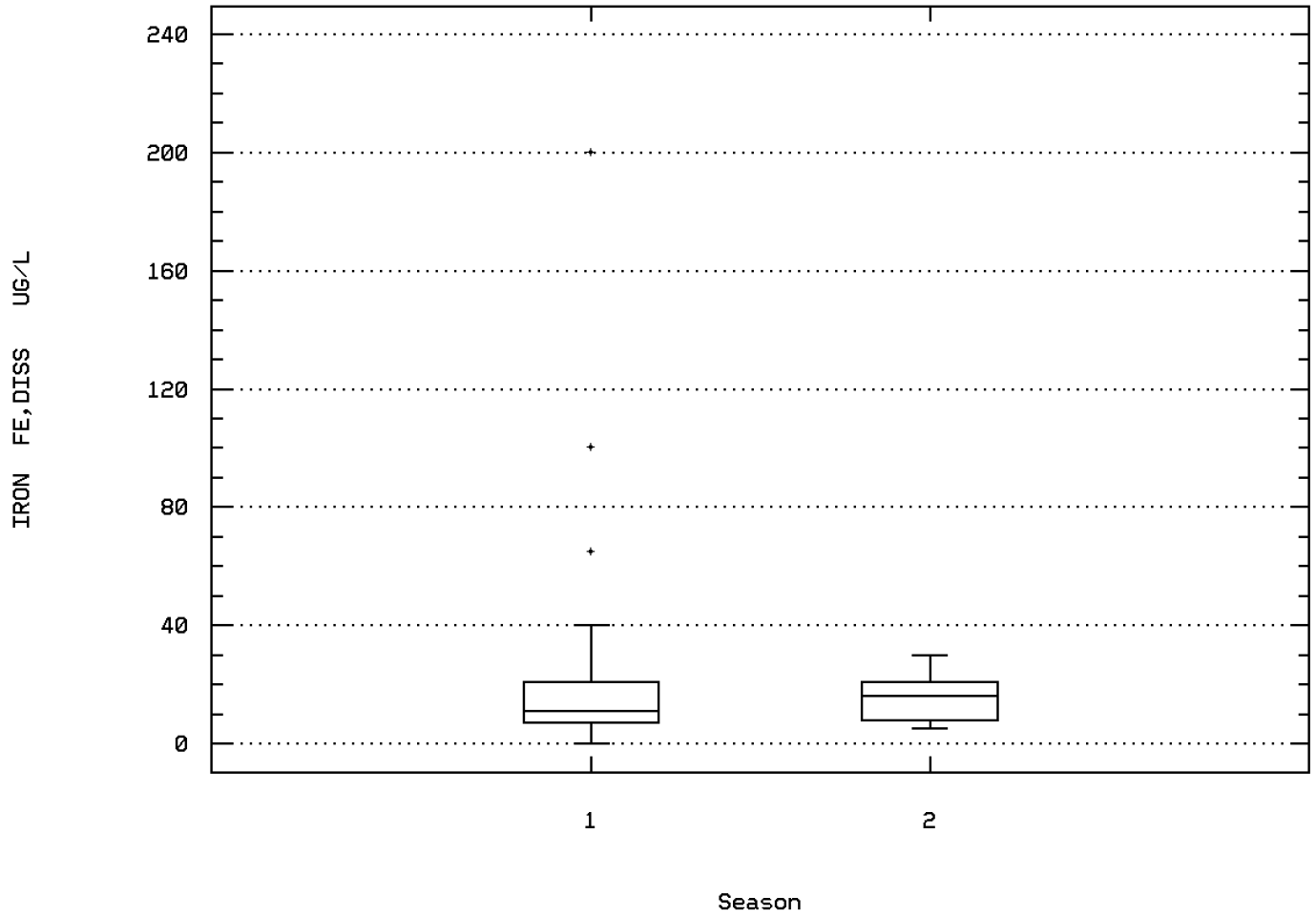
SILICA, DISSOLVED (MG/L AS SI02)



CATALOOCHEE CREEK NEAR CATALOOCHEE N C

Station: GRSM0184 Parameter Code: 01046

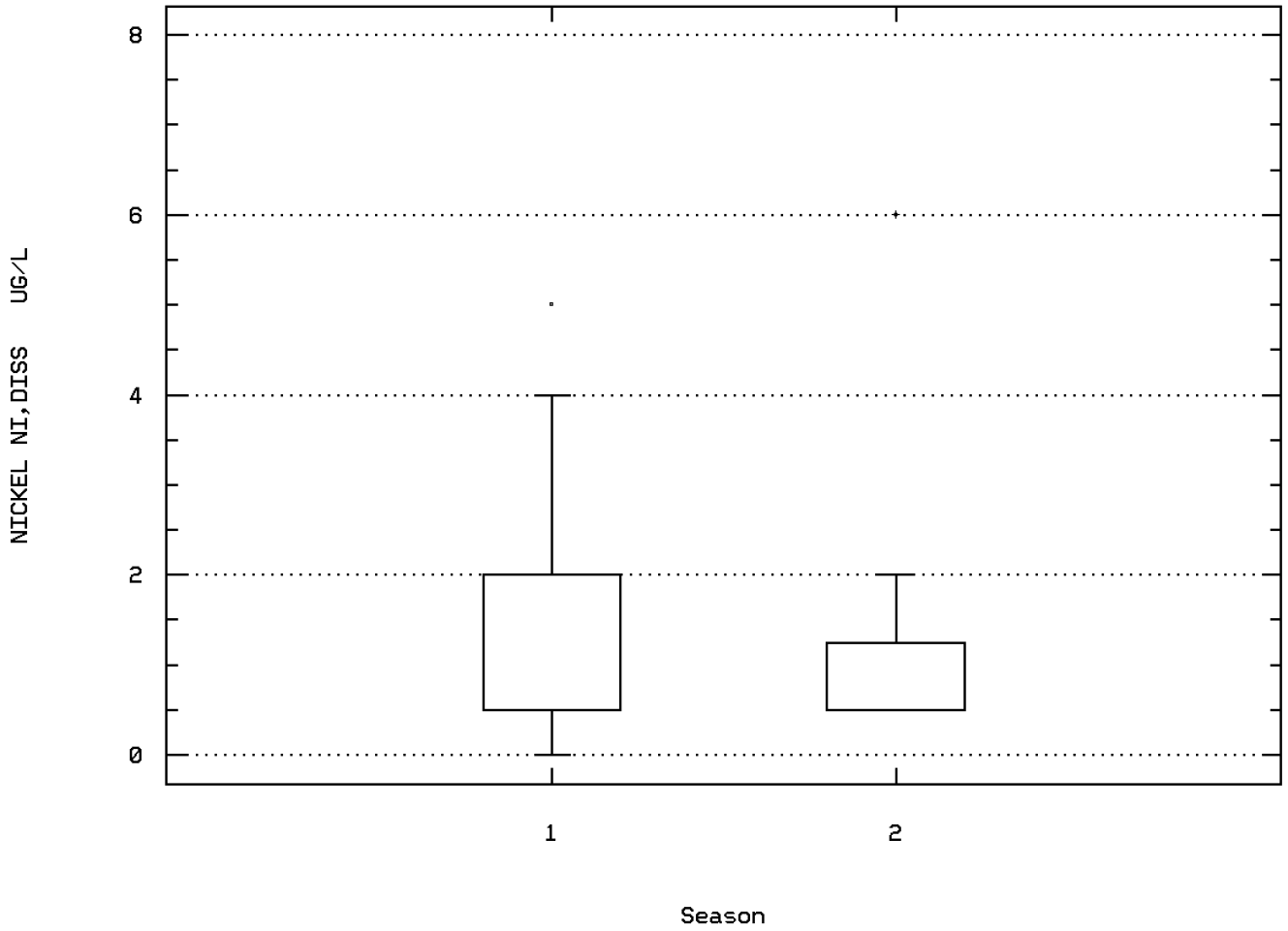
IRON, DISSOLVED (UG/L AS FE)



CATALOOCHEE CREEK NEAR CATALOOCHEE N C

Station: GRSM0184 Parameter Code: 01065

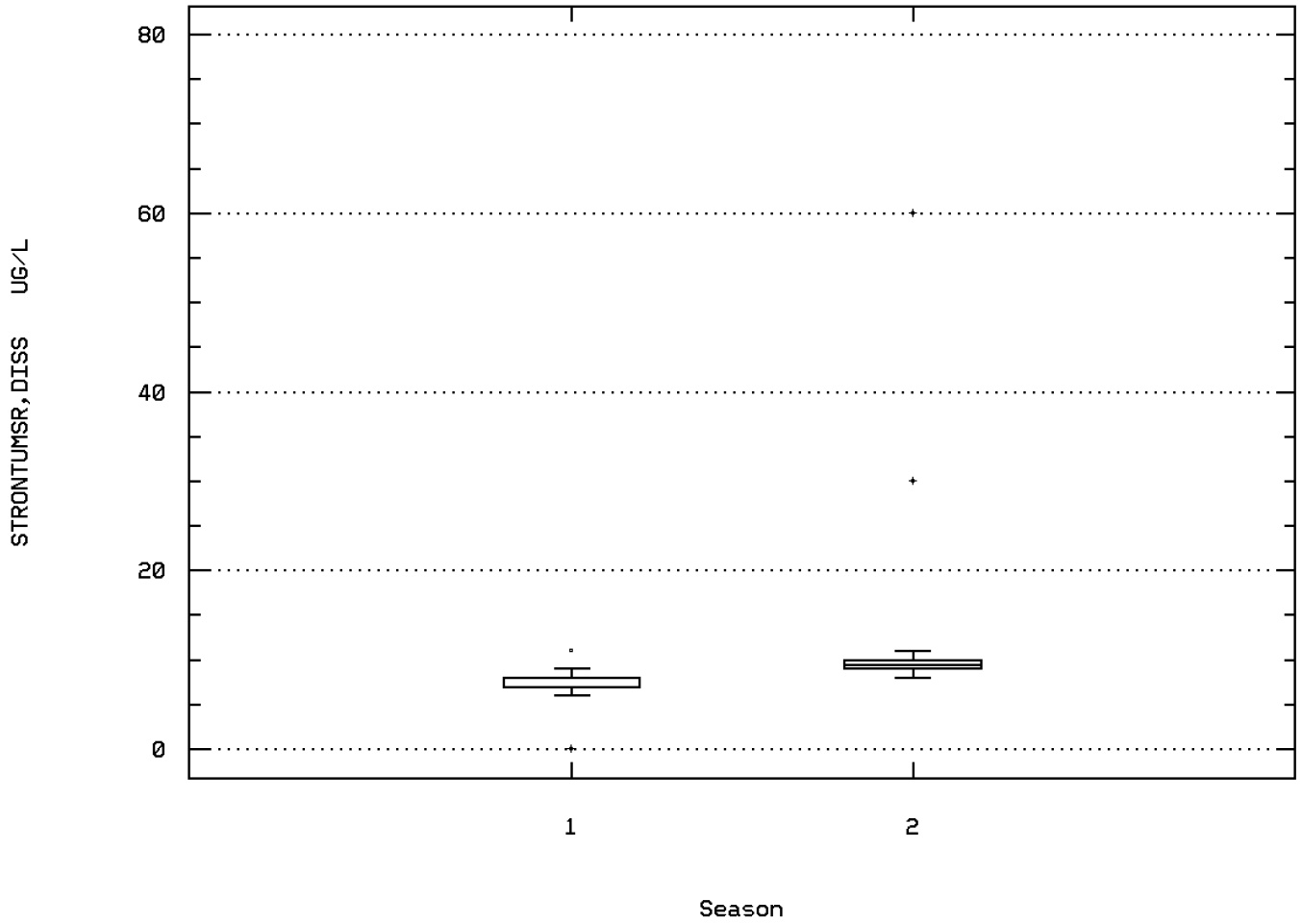
NICKEL, DISSOLVED (UG/L AS NI)



CATALOOCHEE CREEK NEAR CATALOOCHEE N C

Station: GRSM0184 Parameter Code: 01080

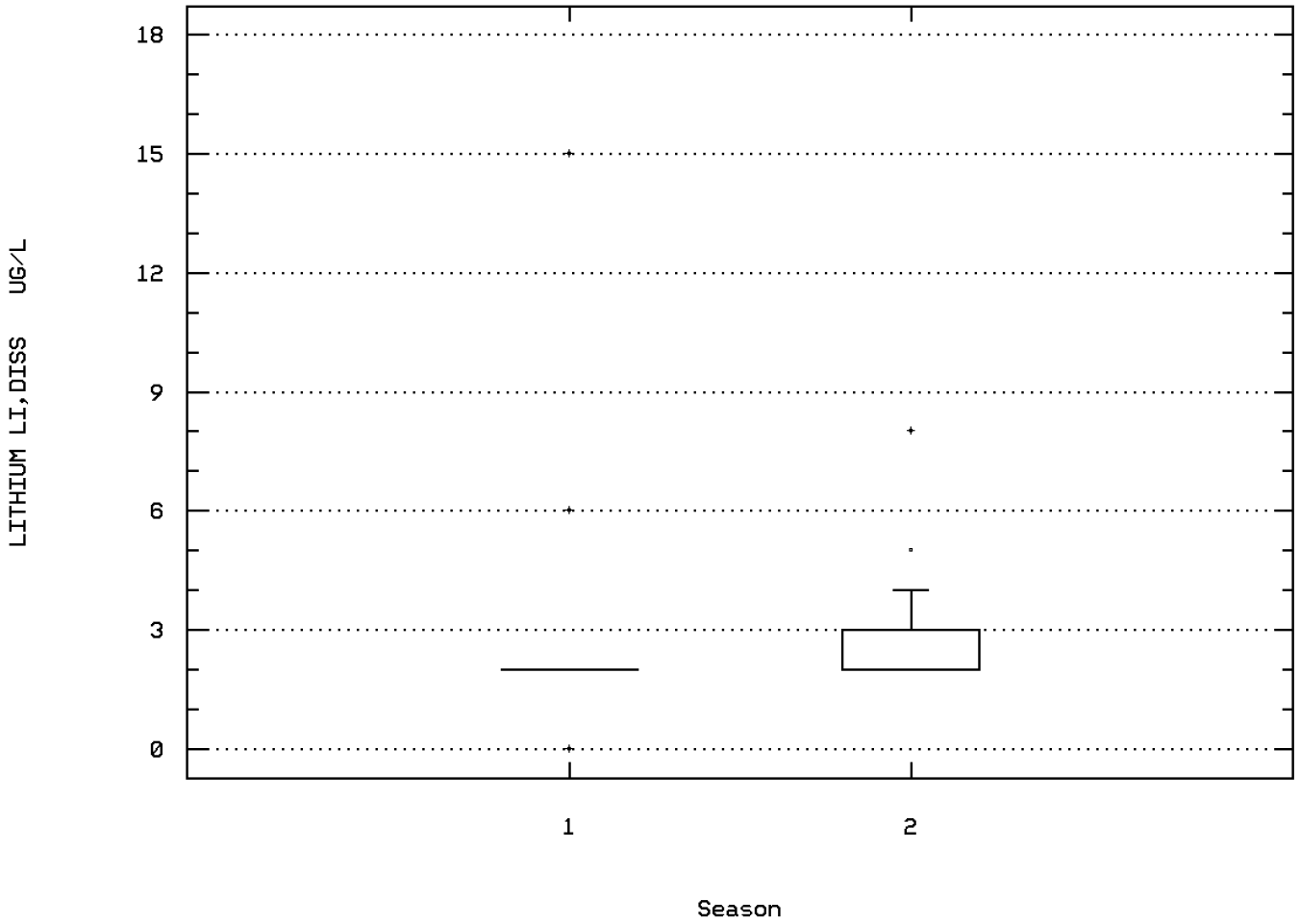
STRONTIUM, DISSOLVED (UG/L AS SR)



CATALOOCHEE CREEK NEAR CATALOOCHEE N C

Station: GRSM0184 Parameter Code: 01130

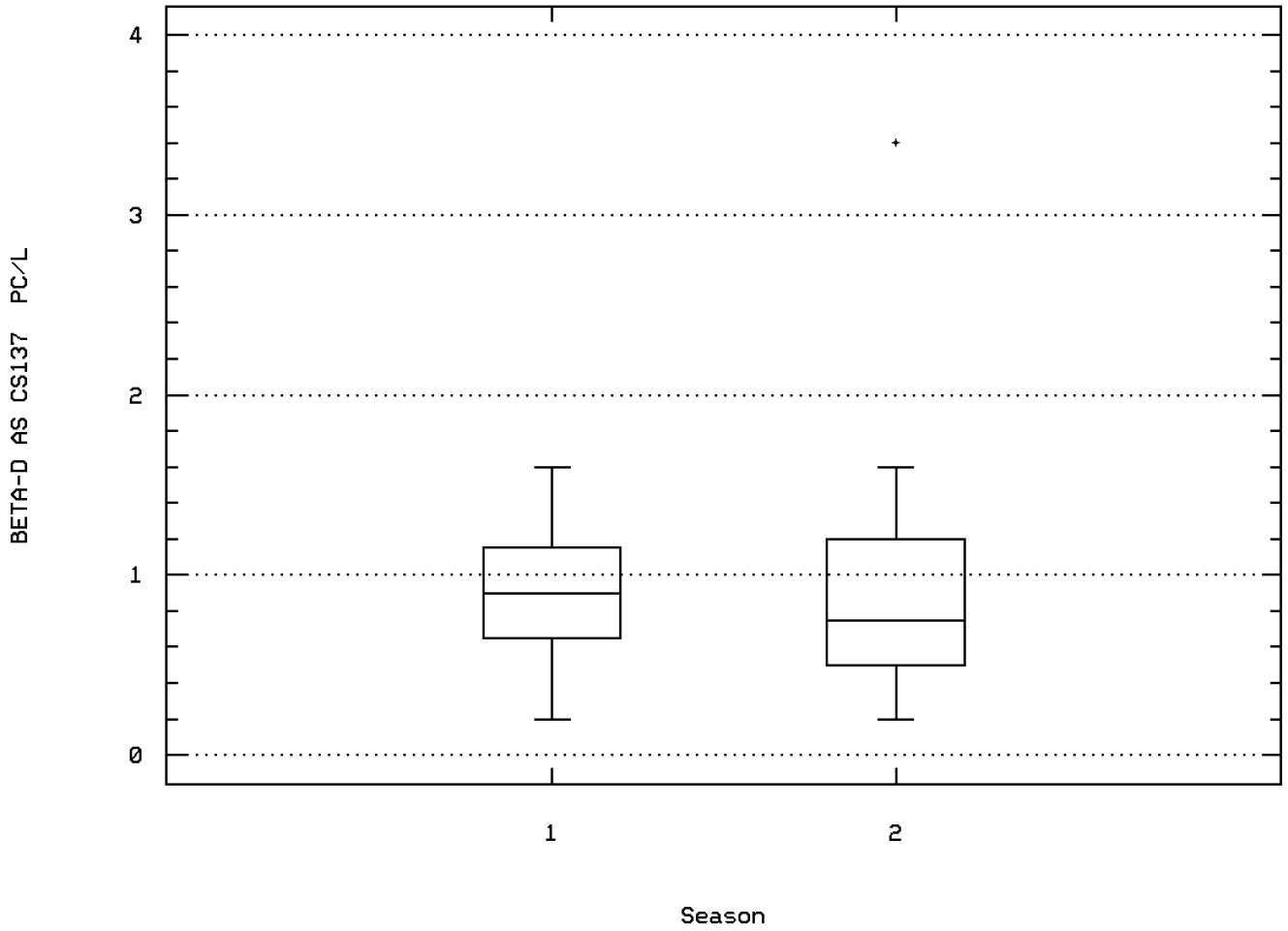
LITHIUM, DISSOLVED (UG/L AS LI)



CATALOOCHEE CREEK NEAR CATALOOCHEE N C

Station: GRSM0184 Parameter Code: 03515

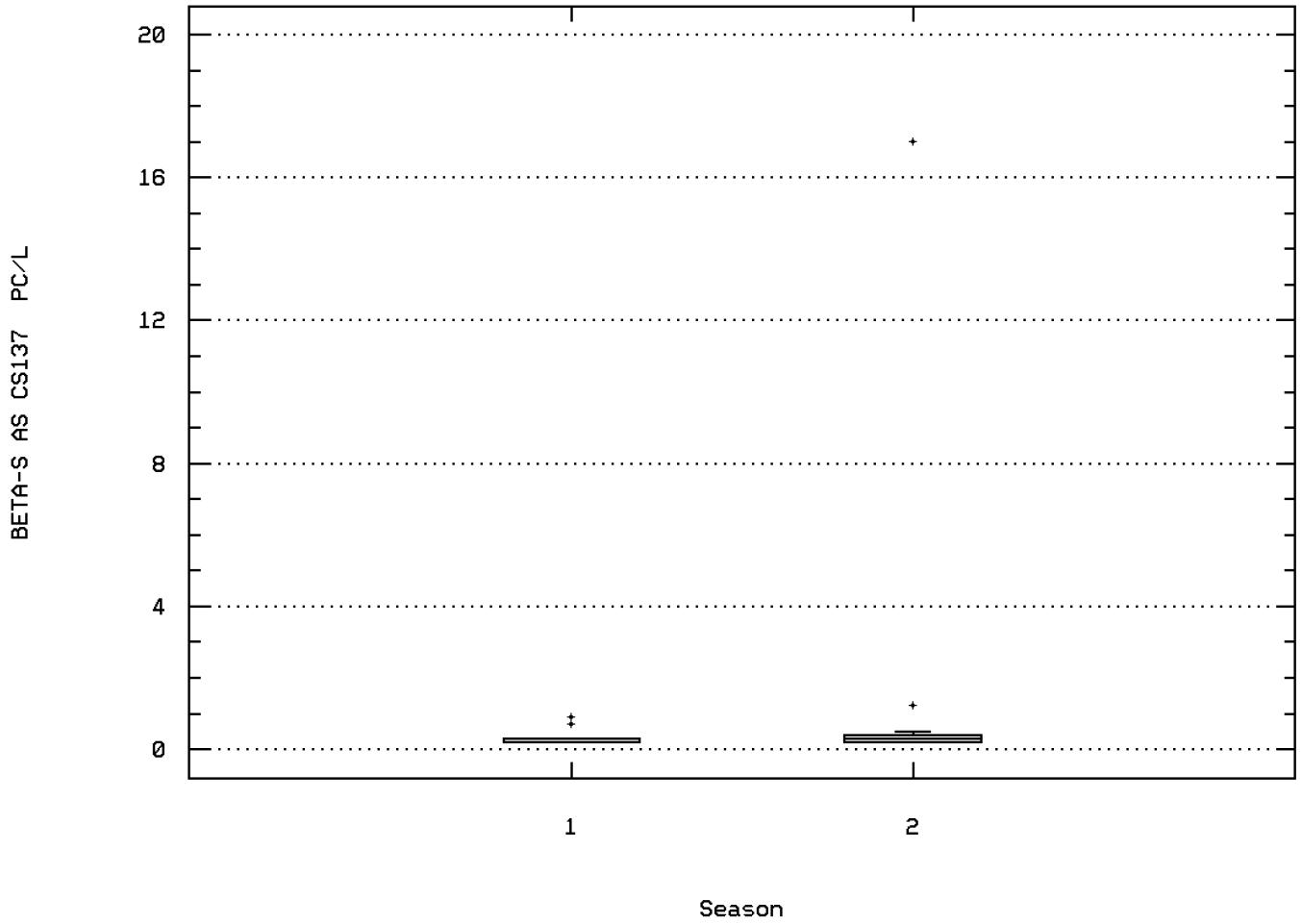
BETA, DISSOLVED GROSS, AS CS-137, PC/L



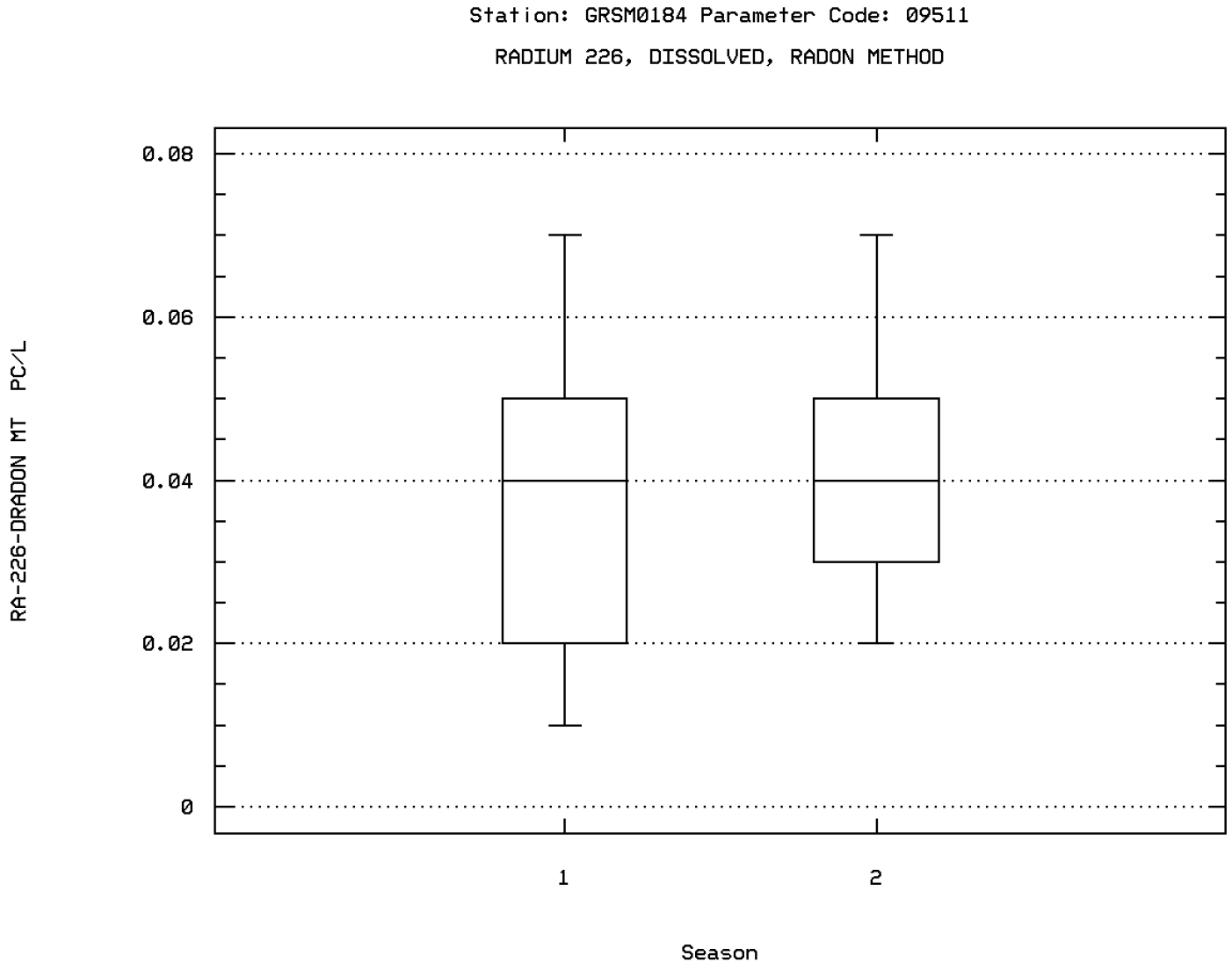
CATALOOCHEE CREEK NEAR CATALOOCHEE N C

Station: GRSM0184 Parameter Code: 03516

BETA, SUSPENDED GROSS, AS CS-137, PC/L



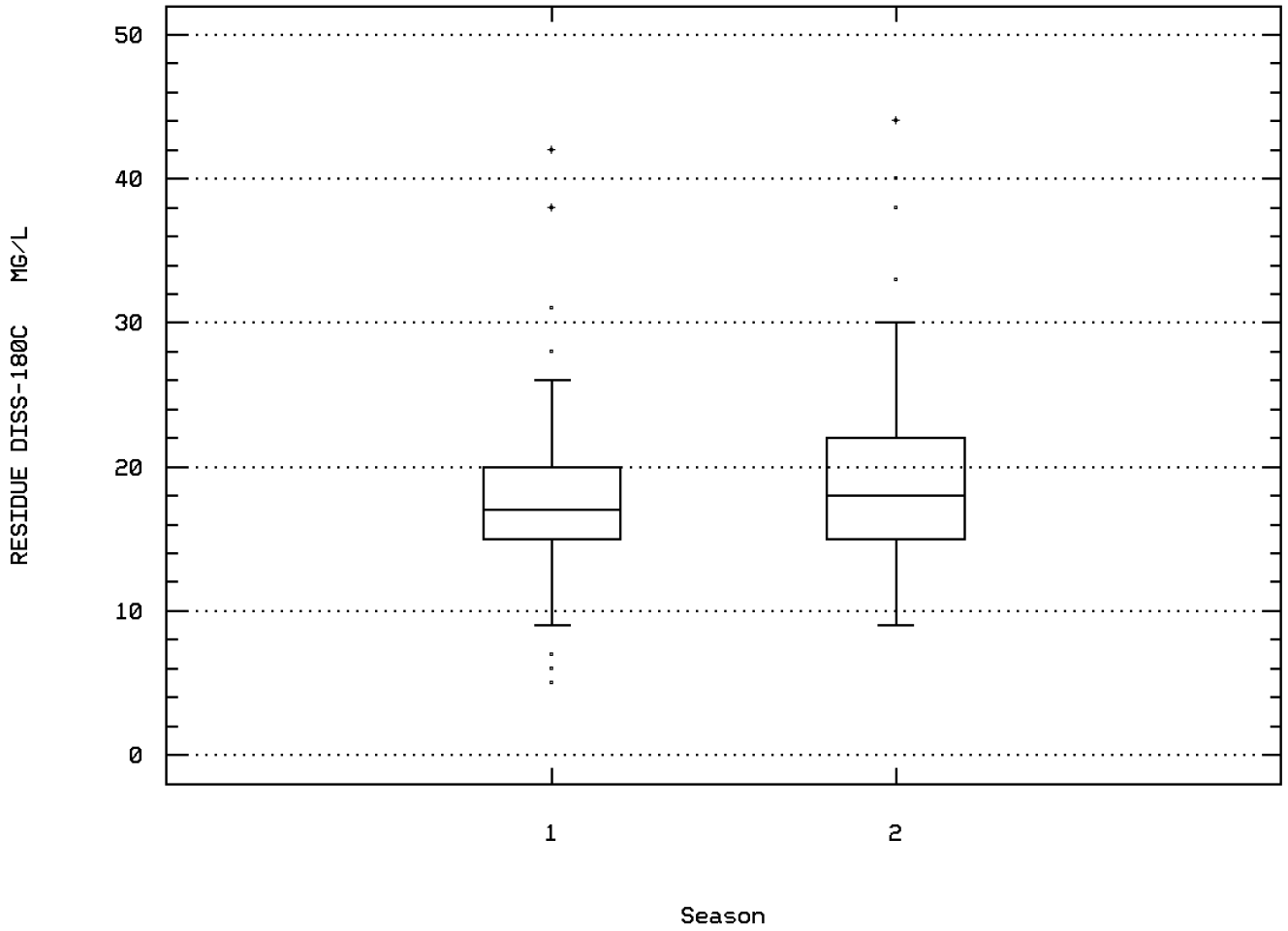
CATALOOCHEE CREEK NEAR CATALOOCHEE N C



CATALOOCHEE CREEK NEAR CATALOOCHEE N C

Station: GRSM0184 Parameter Code: 70300

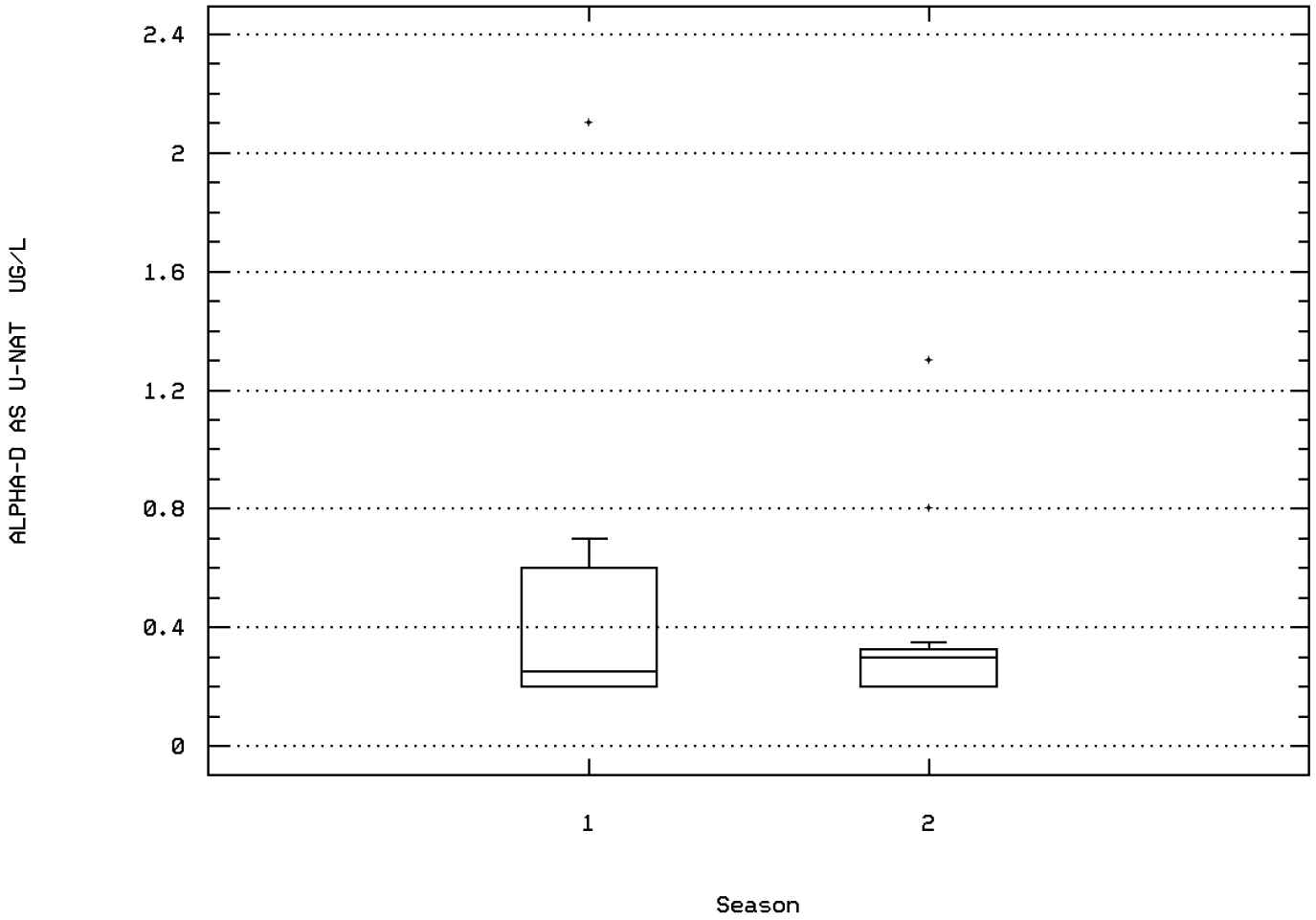
RESIDUE,TOTAL FILTRABLE (DRIED AT 180C)



CATALOOCHEE CREEK NEAR CATALOOCHEE N C

Station: GRSM0184 Parameter Code: 80030

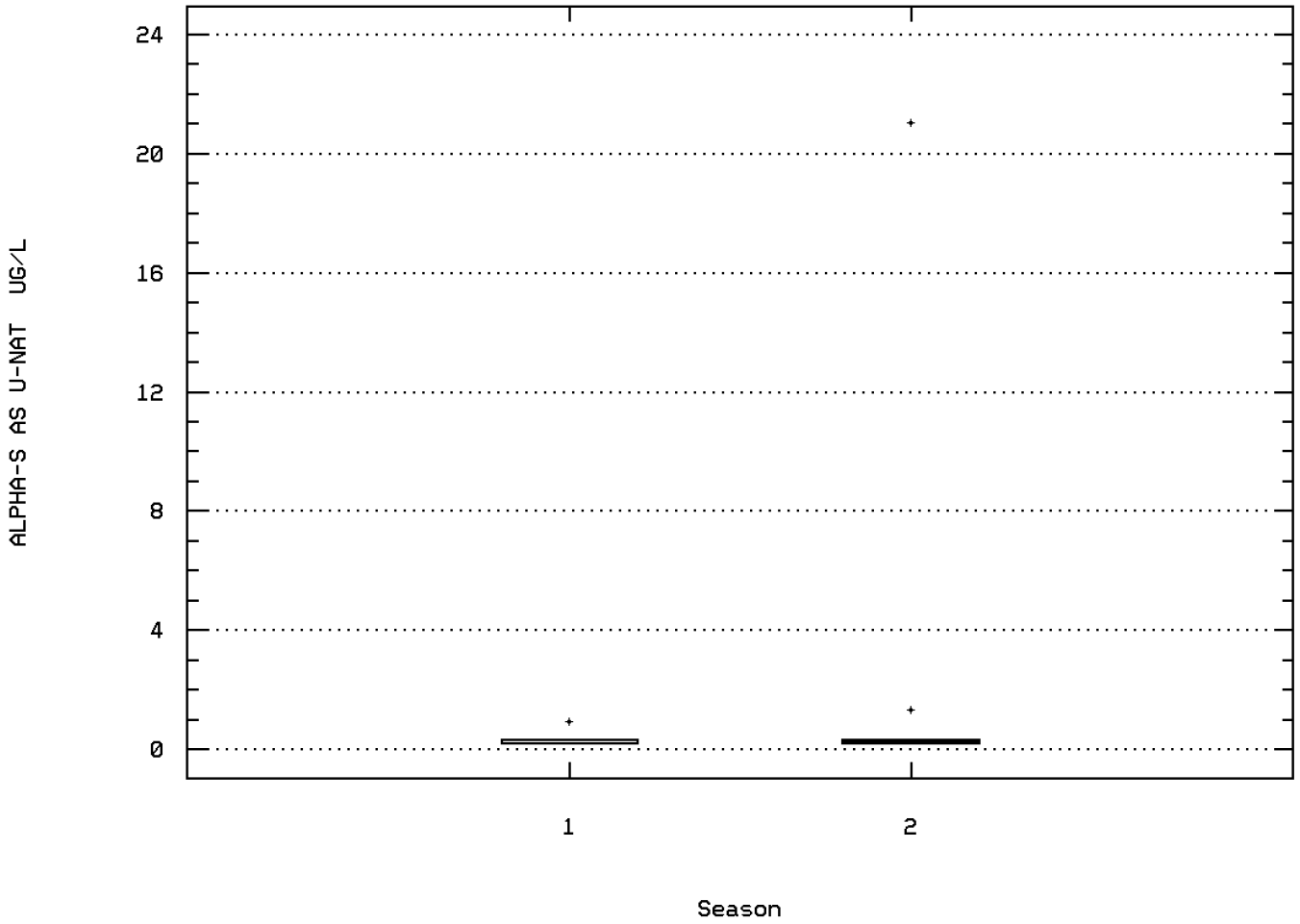
ALPHA,DISSOLVED GROSS,AS URANIUM-NATURA



CATALOOCHEE CREEK NEAR CATALOOCHEE N C

Station: GRSM0184 Parameter Code: 80040

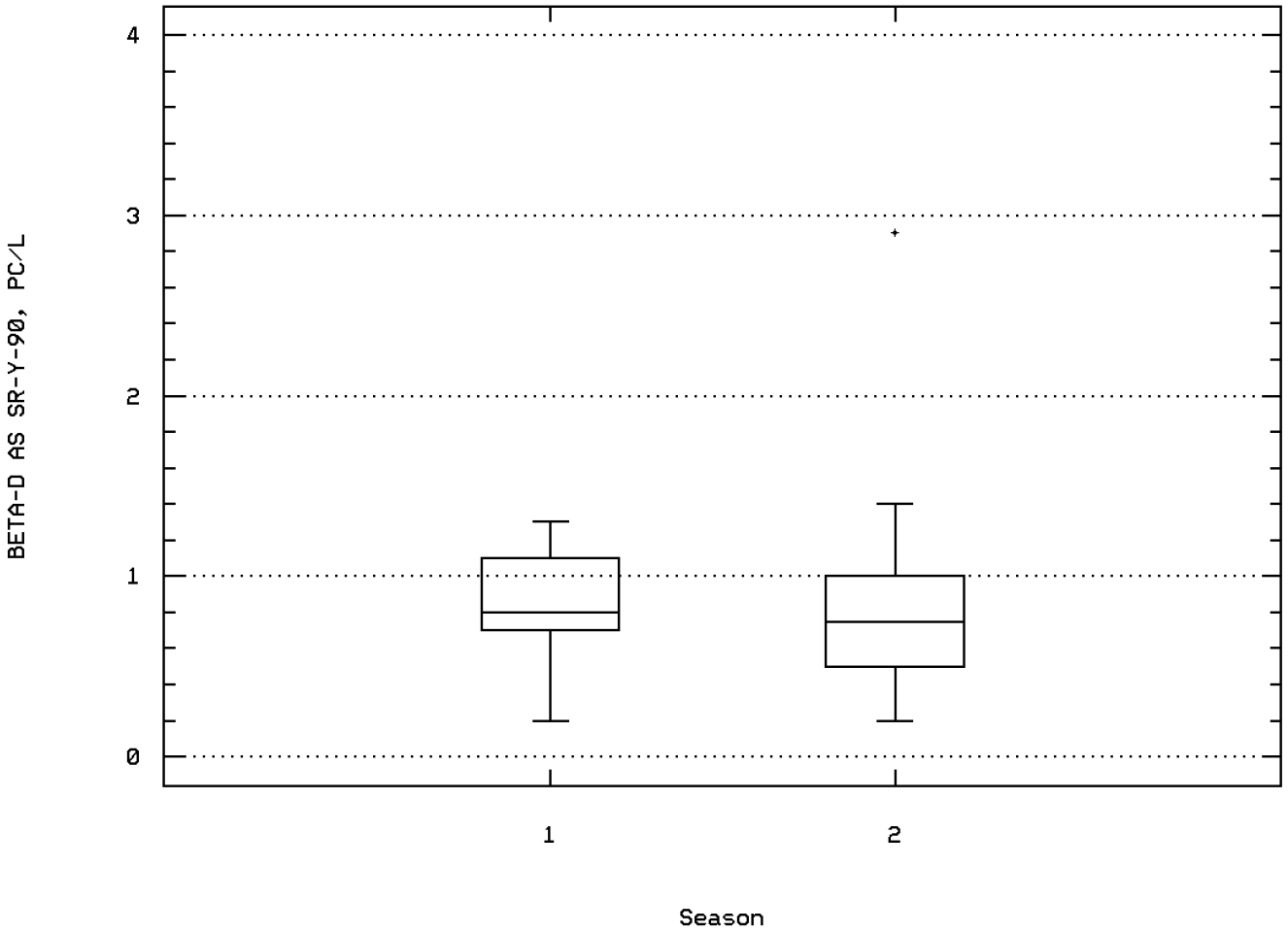
ALPHA,SUSPENDED GROSS, AS URANIUM-NATUR



CATALOOCHEE CREEK NEAR CATALOOCHEE N C

Station: GRSM0184 Parameter Code: 80050

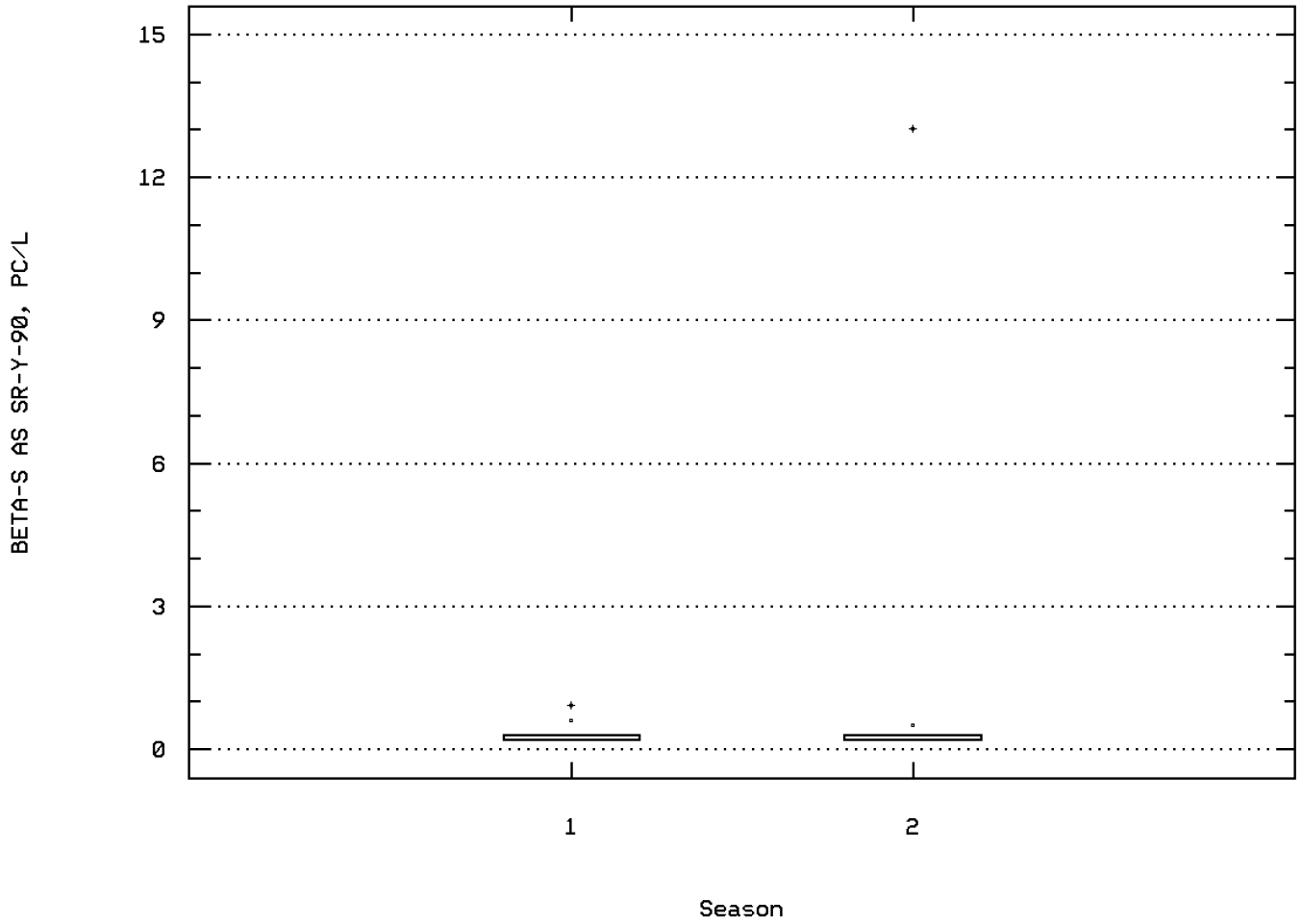
BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L



CATALOOCHEE CREEK NEAR CATALOOCHEE N C

Station: GRSM0184 Parameter Code: 80060

BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L



CATALOOCHEE CREEK NEAR CATALOOCHEE N C

Station Inventory for Station: GRSM0185

NPS Station ID: GRSM0185 LAT/LON: 35.667226/ -83.073059 Agency: 21NC01WQ Date Created: / /
Location: CATALOOCHEE CREEK NEAR CATALOOCHEE NC FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/FISH/STREAM/SOLIDS/BACK STORET Station ID(s): E6450000 /FRB049A /03460000
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 06010106 Depth of Water: 999 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: FRENCH BROAD ECO Region:
RF1 Index: 06010106012 RF1 Mile Point: 3.180 Distance from RF1: 0.30 On/Off RF1: OFF
RF3 Index: 060101060000911.20 RF3 Mile Point: 11.20 Distance from RF3: 0.03 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	02/07/83-12/05/94	54	75.	59.815	75.	15.	564.116	23.751	20.	30.	75.	75.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/73-12/05/94	298	12.	10.909	20.	0.	26.159	5.115	4.	6.75	15.	17.1
00060	FLOW, STREAM, MEAN DAILY CFS	01/24/74-05/12/75	60	133.	164.033	760.	35.	17141.287	130.925	43.	73.	207.	371.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/75-09/07/93	183	72.	102.683	1550.	24.	16233.152	127.409	33.4	48.	122.	172.6
00064	DEPTH OF STREAM, MEAN (FT)	02/07/83-12/05/94	55	1.	1.162	3.	0.5	0.165	0.406	1.	1.	1.	1.5
00065	STAGE, STREAM (FEET)	01/24/74-09/07/93	269	2.48	2.705	40.26	0.43	5.469	2.339	2.15	2.27	2.775	3.09
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/73-12/05/94	203	1.	2.047	68.	0.	30.35	5.509	0.5	0.5	2.	3.6
00080	COLOR (PLATINUM-COBALT UNITS)	10/04/73-10/04/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	111	18.	18.459	38.	6.	30.978	5.566	12.2	14.	23.	25.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/29/74-12/14/89	102	20.	19.441	48.	3.	64.982	8.061	10.	14.	25.	30.
00300p	OXYGEN, DISSOLVED MG/L	09/04/73-12/05/94	278	10.	10.204	13.9	2.	2.158	1.469	8.8	9.2	11.1	12.2
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/04/73-09/19/85	149	92.	92.455	115.	71.	31.007	5.568	87.	89.25	95.	98.
00310	BOD, 5 DAY, 20 DEG C MG/L	09/04/73-06/26/91	231	0.5	0.53	3.	0.	0.149	0.387	0.2	0.3	0.7	1.
00335	COD, .025N K2CR2O7 MG/L	09/04/73-12/11/84	58 ##	5.	6.129	30.	2.5	25.215	5.021	2.5	2.5	8.375	12.5
00340	COD, .25N K2CR2O7 MG/L	01/24/74-04/23/81	136 ##	12.5	9.835	46.	0.	35.945	5.995	5.	5.	12.5	12.5
00400p	PH (STANDARD UNITS)	09/04/73-12/05/94	264	6.7	6.696	7.7	5.4	0.132	0.363	6.2	6.425	6.9	7.1
00400p	CONVERTED PH (STANDARD UNITS)	09/04/73-12/05/94	264	6.7	6.535	7.7	5.4	0.158	0.398	6.2	6.425	6.9	7.1
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/73-12/05/94	264	0.2	0.292	3.981	0.02	0.119	0.345	0.079	0.126	0.378	0.631
00403	PH, LAB, STANDARD UNITS SU	11/28/79-12/05/94	99	6.7	6.707	7.	6.3	0.018	0.134	6.6	6.6	6.8	6.9
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-12/05/94	99	6.7	6.686	7.	6.3	0.018	0.136	6.6	6.6	6.8	6.9
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-12/05/94	99	0.2	0.206	0.501	0.1	0.005	0.068	0.126	0.158	0.251	0.251
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/04/73-06/26/91	234	6.	5.778	19.	1.	3.856	1.964	4.	5.	6.	7.5
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/04/73-08/20/80	100	0.	0.05	5.	0.	0.25	0.5	0.	0.	0.	0.
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	08/20/80-08/20/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	106	5.	5.151	9.	2.	2.682	1.638	3.	4.	6.	7.
00435	ACIDITY, TOTAL (MG/L AS CACO3)	09/17/73-10/04/73	2	30.	30.	60.	0.	1800.	42.426	**	**	**	**
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	09/17/73-07/11/91	3	0.	1.	3.	0.	3.	1.732	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	144	28.	27.583	80.	5.	103.825	10.189	15.	21.	33.	39.5
00505	RESIDUE, TOTAL VOLATILE (MG/L)	07/10/79-03/27/85	56	15.5	15.732	41.	0.5	82.881	9.104	2.7	11.	21.	26.
00510	RESIDUE, TOTAL FIXED (MG/L)	07/10/79-03/27/85	56	14.	13.938	27.	0.5	34.073	5.837	5.7	10.25	19.	21.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	181	2.	2.356	13.	0.5	4.89	2.211	0.5	0.5	3.	5.
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/10/79-03/27/85	56 ##	0.75	1.464	5.	0.5	1.653	1.286	0.5	0.5	2.	3.3
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	07/10/79-03/27/85	56 ##	0.5	1.107	8.	0.5	1.988	1.41	0.5	0.5	1.	3.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/26/76-11/07/94	154	0.025	0.023	0.08	0.005	0.	0.013	0.01	0.01	0.025	0.04
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/26/76-11/07/94	154	0.1	0.119	0.6	0.005	0.007	0.083	0.05	0.05	0.2	0.2
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/26/76-11/07/94	154	0.16	0.152	0.27	0.005	0.004	0.059	0.035	0.13	0.19	0.22
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/26/76-11/07/94	153	0.025	0.022	0.09	0.005	0.	0.011	0.01	0.01	0.025	0.03
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/19/79-12/15/80	9 ##	5.	5.211	6.9	5.	0.401	0.633	5.	5.	5.	6.9

** - 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: GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/24/83-12/05/94	85	5.	4.753	12.	2.	2.95	1.718	2.	4.	6.	7.
00916	CALCIUM, TOTAL (MG/L AS CA)	05/20/77-03/15/89	4	0.75	0.6	0.8	0.1	0.113	0.337	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/20/77-03/15/89	2	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	05/20/77-03/15/89	2	1.17	1.17	1.4	0.94	0.106	0.325	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	03/15/89-03/15/89	1	0.39	0.39	0.39	0.39	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	02/24/83-12/19/90	56 ##	2.5	2.714	12.	2.5	1.708	1.307	2.5	2.5	2.5	2.5
01002	ARSENIC, TOTAL (UG/L AS AS)	05/26/76-11/07/94	91 ##	5.	5.22	25.	5.	4.396	2.097	5.	5.	5.	5.
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	11/28/78-11/29/84	6 ##	0.913	0.829	1.05	0.3	0.075	0.273	**	**	**	**
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	10/24/84-10/24/84	9 ##	0.2	0.2	0.2	0.2	0.	0.	0.2	0.2	0.2	0.2
01027	CADMIUM, TOTAL (UG/L AS CD)	05/26/76-11/07/94	96 ##	1.	8.146	25.	1.	95.073	9.751	1.	1.	10.	25.
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/29/84	6 ##	0.225	0.35	1.2	0.1	0.178	0.422	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/29/84	6	5.35	6.683	13.	4.9	9.91	3.148	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/26/76-11/07/94	96 ##	12.5	16.979	25.	2.5	41.042	6.406	12.5	12.5	25.	25.
01037	COBALT, TOTAL (UG/L AS CO)	05/26/76-05/26/87	20 ##	50.	48.75	50.	25.	31.25	5.59	50.	50.	50.	50.
01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/28/78-11/28/78	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/26/76-11/07/94	97 ##	5.	36.691	2700.	1.	74882.57	273.647	1.	1.	10.	20.
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/26/81-11/29/84	5	4.	3.86	4.3	3.3	0.163	0.404	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/26/76-11/07/94	57 ##	50.	280.632	13000.	25.	2942241.237	1715.296	25.	25.	60.5	104.
01051	LEAD, TOTAL (UG/L AS PB)	05/26/76-11/07/94	97 ##	5.	23.959	50.	5.	452.665	21.276	5.	5.	50.	50.
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	11/28/78-11/29/84	6	7.1	11.833	39.	4.8	178.839	13.373	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/26/76-10/25/93	35 ##	25.	21.671	220.	5.	1279.47	35.77	5.	5.	25.	25.
01067	NICKEL, TOTAL (UG/L AS NI)	05/26/76-11/07/94	82 ##	5.	23.402	300.	5.	1321.75	36.356	5.	5.	50.	50.
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/17/81-11/29/84	4	4.85	4.875	5.7	4.1	0.509	0.714	**	**	**	**
01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	10/24/84-10/24/84	9 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01092	ZINC, TOTAL (UG/L AS ZN)	05/26/76-11/07/94	97 ##	5.	107.763	7800.	1.	643023.724	801.888	5.	5.	22.5	25.
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	11/17/81-11/29/84	4	32.	34.5	46.	28.	65.	8.062	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	02/24/83-11/07/94	90 ##	50.	70.867	270.	25.	3306.634	57.503	25.	25.	100.	195.
31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	05/07/74-10/15/80	13	58.	131.308	900.	1.	57649.564	240.103	5.	18.5	92.5	644.
31504	LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,	05/07/74-10/15/80	13	1.763	1.677	2.954	0.	0.503	0.709	0.417	1.254	1.966	2.739
31504	GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =			47.482								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	345	5.	69.713	12000.	0.5	495341.576	703.805	0.5	3.	10.	30.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	345	0.699	0.748	4.079	-0.301	0.433	0.658	-0.301	0.477	1.	1.477
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.604								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/10/79-11/29/94	57	610.	1706.193	23001.	0.5	13142866.542	3625.309	10.6	56.	1750.	3820.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/10/79-11/29/94	57	2.785	2.488	4.362	-0.301	1.1	1.049	1.003	1.748	3.241	3.582
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			307.624								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	08/27/74-06/23/81	5	700.	1305.4	4800.	67.	3952785.8	1988.161	**	**	**	**
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	08/27/74-06/23/81	5	2.845	2.629	3.681	1.826	0.629	0.793	**	**	**	**
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			425.971								
39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	06/26/81-06/26/81	1 ##	1000.	1000.	1000.	1000.	0.	0.	**	**	**	**
39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL	11/28/78-10/17/84	3 ##	30.	21.667	30.	5.	208.333	14.434	**	**	**	**
39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	11/28/78-10/17/84	3 ##	30.	21.667	30.	5.	208.333	14.434	**	**	**	**
39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	11/28/78-10/17/84	3 ##	10.	8.333	10.	5.	8.333	2.887	**	**	**	**
39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	11/28/78-10/17/84	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-10/17/84	3 ##	35.	26.667	35.	10.	208.333	14.434	**	**	**	**
39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-10/17/84	3 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-10/17/84	3 ##	20.	16.667	20.	10.	33.333	5.774	**	**	**	**
39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-10/17/84	3 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-10/17/84	3 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/28/78-10/17/84	3 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-10/17/84	3 ##	0.005	0.837	2.5	0.005	2.075	1.44	**	**	**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/26/81-10/17/84	2 ##	45.	45.	45.	45.	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/28/78-10/17/84	3 ##	0.01	1.673	5.	0.01	8.3	2.881	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-10/17/84	3 ##	20.	15.	20.	5.	75.	8.66	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/28/78-10/17/84	3 ##	40.	35.	40.	25.	75.	8.66	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-10/17/84	3 ##	200.	216.667	250.	200.	833.333	28.868	**	**	**	**
39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	11/28/78-10/17/84	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39811	CHLORDANE,GAMMA,IN BOTTOM DEPOS(UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70305	SALINITY BASED ON CONDUCTIVITY	01/29/74-02/09/77	18	0.	0.111	0.7	0.	0.056	0.237	0.	0.	0.05	0.7
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/09/77-09/25/91	106 ##	0.015	0.016	0.05	0.005	0.	0.01	0.005	0.005	0.025	0.025
71900	MERCURY, TOTAL (UG/L AS HG)	05/26/76-11/07/94	92 ##	0.1	0.136	0.6	0.1	0.006	0.078	0.1	0.1	0.1	0.25
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	11/28/78-04/18/85	7	0.05	0.239	1.2	0.01	0.19	0.436	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/24/84-10/24/84	9 ##	0.01	0.026	0.14	0.01	0.002	0.043	0.01	0.01	0.015	0.14

** - 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 time series plot

Parameter Inventory for Station: GRSM0185

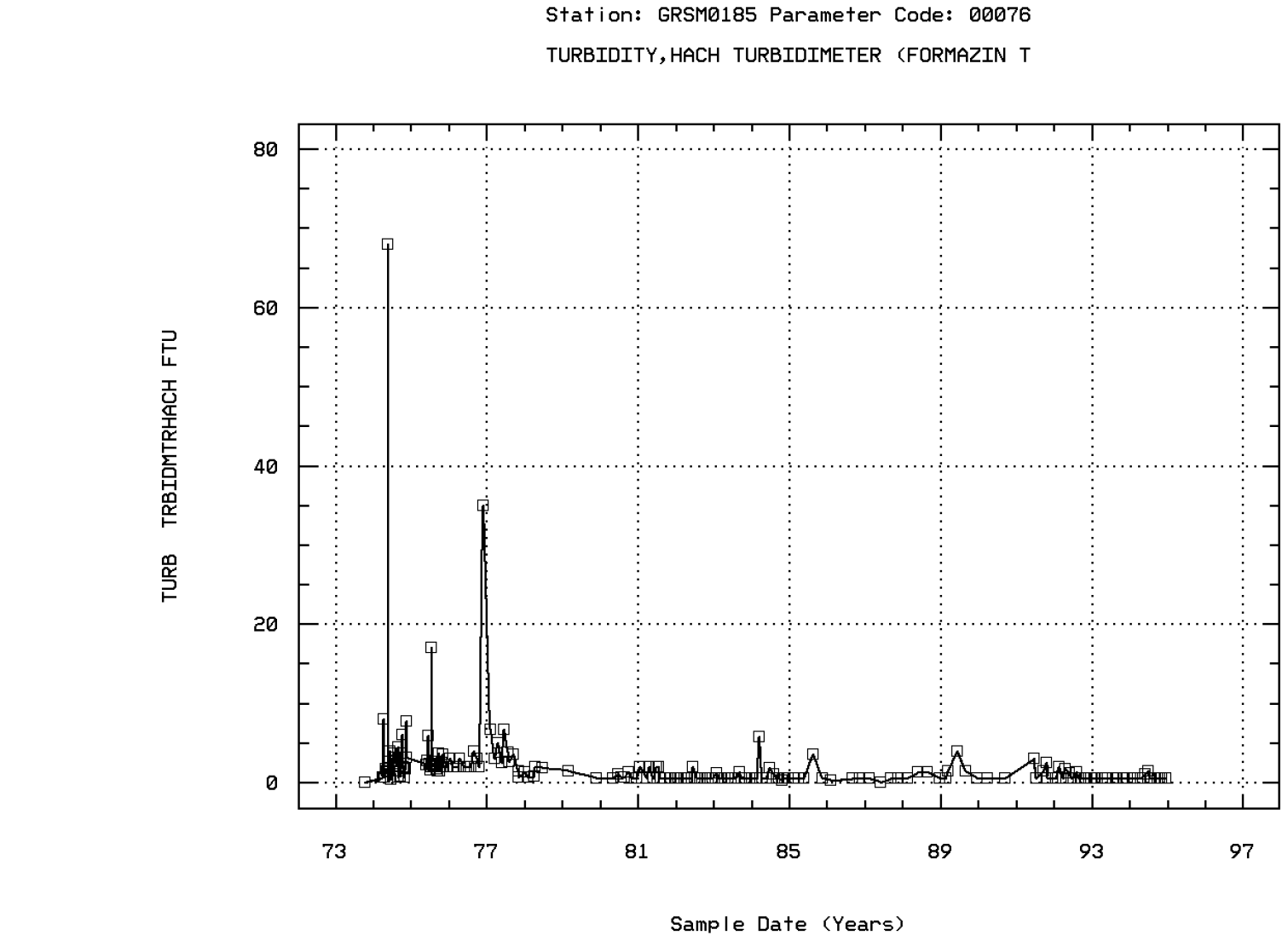
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/24/84-10/24/84	9 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/24/84-10/24/84	9	0.61	0.858	2.	0.3	0.321	0.566	0.3	0.5	1.21	2.
71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/24/84-10/24/84	9	24.	20.856	40.	4.8	118.508	10.886	4.8	11.45	27.	40.
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	10/24/84-10/24/84	9 ##	0.25	0.278	0.5	0.25	0.007	0.083	0.25	0.25	0.25	0.5
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/24/84-10/24/84	9 ##	0.1	0.1	0.1	0.1	0.	0.	0.1	0.1	0.1	0.1
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	02/09/77-12/29/77	13	69.	95.462	180.	42.	2464.269	49.641	45.6	53.5	141.	177.2

** - 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

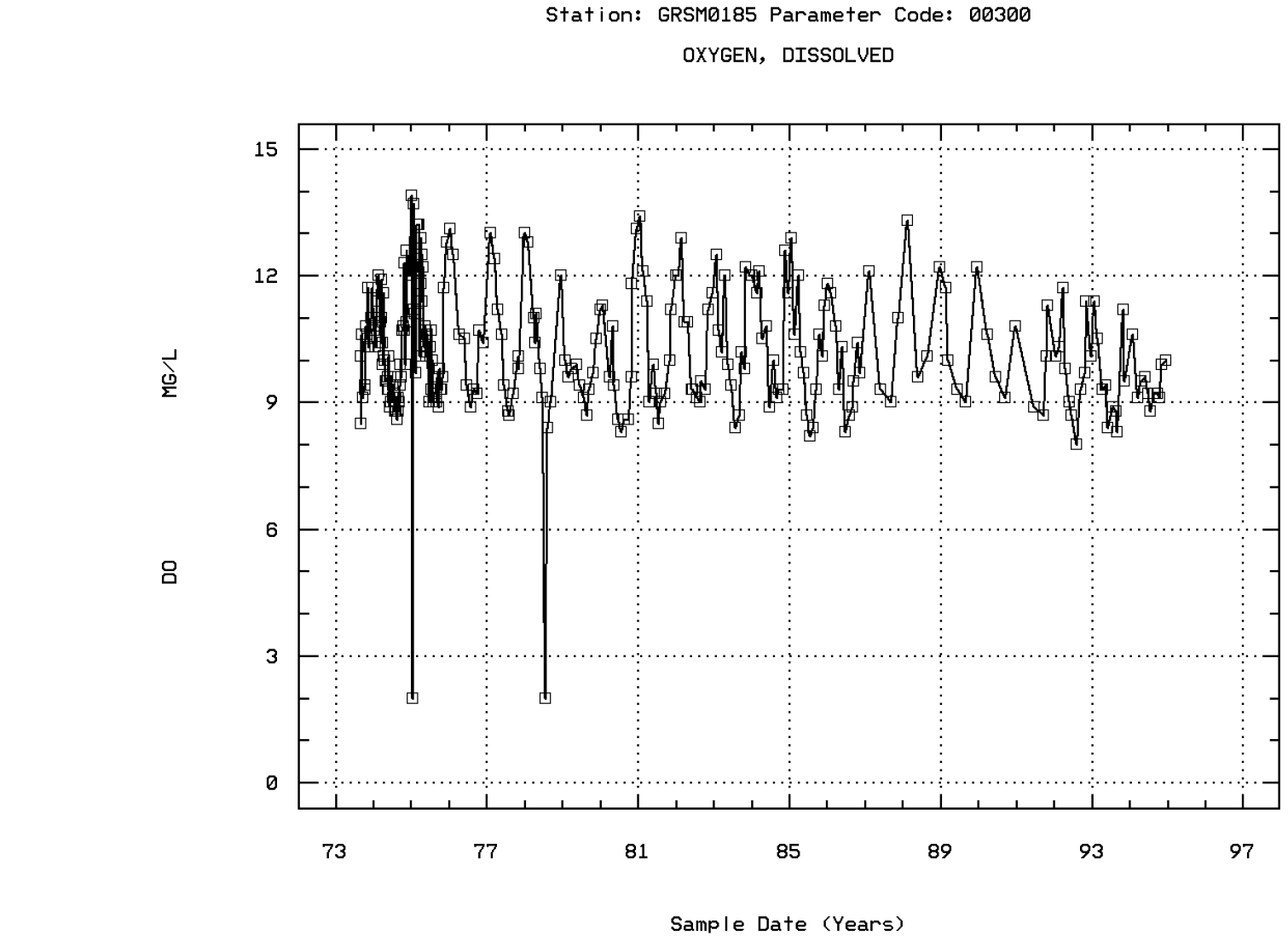
EPA Water Quality Criteria Analysis for Station: GRSM0185

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	203	1	0.00	88	0	0.00	115	1	0.01						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	278	2	0.01	131	1	0.01	147	1	0.01						
00400	PH	Other-Hi Lim.	9.	264	0	0.00	122	0	0.00	142	0	0.00						
		Other-Lo Lim.	6.5	264	77	0.29	122	40	0.33	142	37	0.26						
00403	PH, LAB	Other-Hi Lim.	9.	99	0	0.00	49	0	0.00	50	0	0.00						
		Other-Lo Lim.	6.5	99	9	0.09	49	7	0.14	50	2	0.04						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	154	0	0.00	74	0	0.00	80	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	56	0	0.00	29	0	0.00	27	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	91	0	0.00	44	0	0.00	47	0	0.00						
		Drinking Water	50.	91	0	0.00	44	0	0.00	47	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	52 &	0	0.00	25	0	0.00	27	0	0.00						
		Drinking Water	5.	52 &	0	0.00	25	0	0.00	27	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	96	0	0.00	47	0	0.00	49	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	77 &	3	0.04	38	2	0.05	39	1	0.03						
		Drinking Water	1300.	97	1	0.01	47	0	0.00	50	1	0.02						
01051	LEAD, TOTAL	Fresh Acute	82.	97	0	0.00	47	0	0.00	50	0	0.00						
		Drinking Water	5.	1 &	1	1.00				1	1	1.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	82	0	0.00	39	0	0.00	43	0	0.00						
		Drinking Water	100.	82	1	0.01	39	0	0.00	43	1	0.02						
01092	ZINC, TOTAL	Fresh Acute	120.	97	3	0.03	47	2	0.04	50	1	0.02						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	345	5	0.01	161	1	0.01	184	4	0.02						
71900	MERCURY, TOTAL	Fresh Acute	2.4	92	0	0.00	45	0	0.00	47	0	0.00						
		Drinking Water	2.	92	0	0.00	45	0	0.00	47	0	0.00						

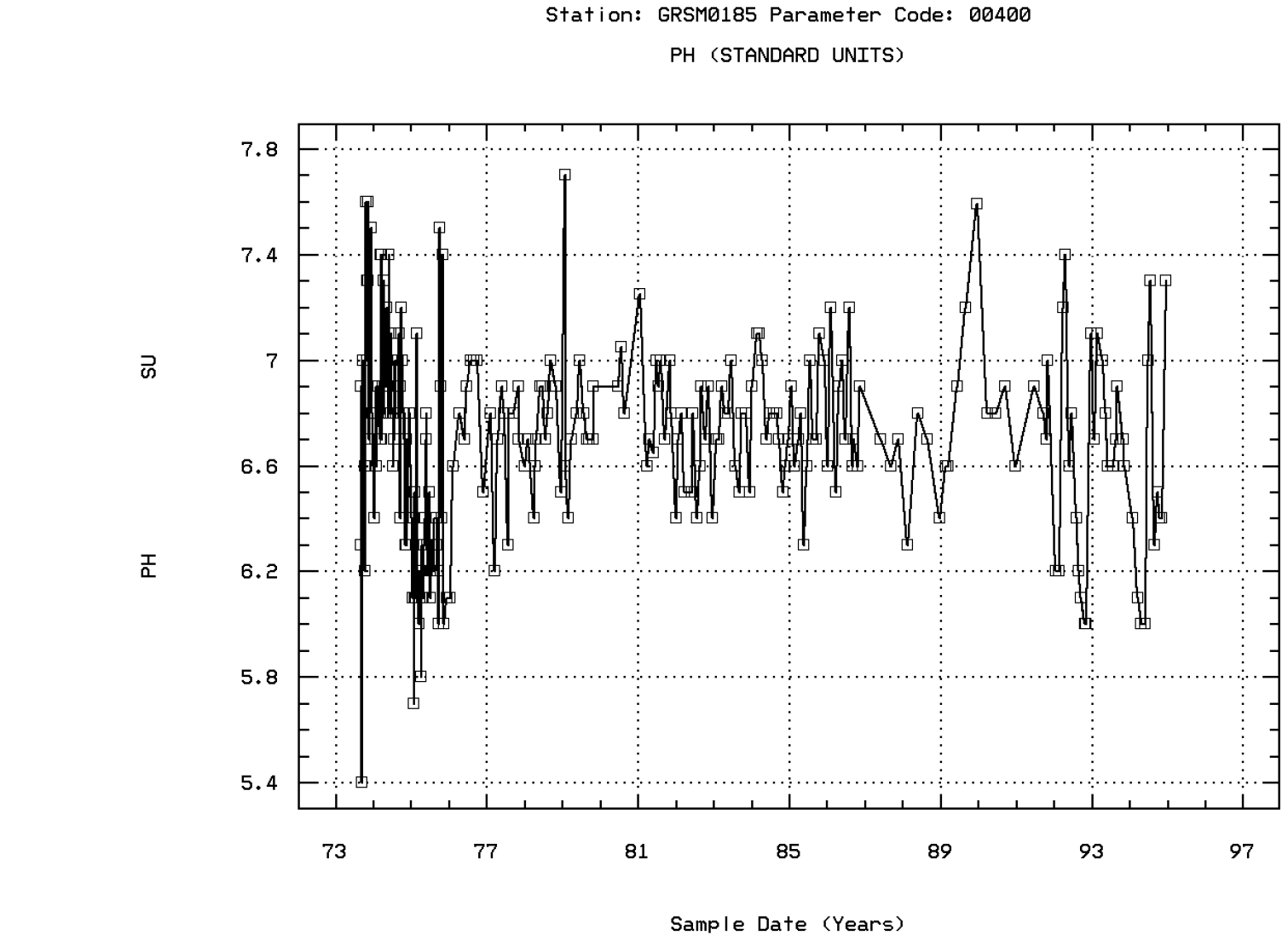
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter



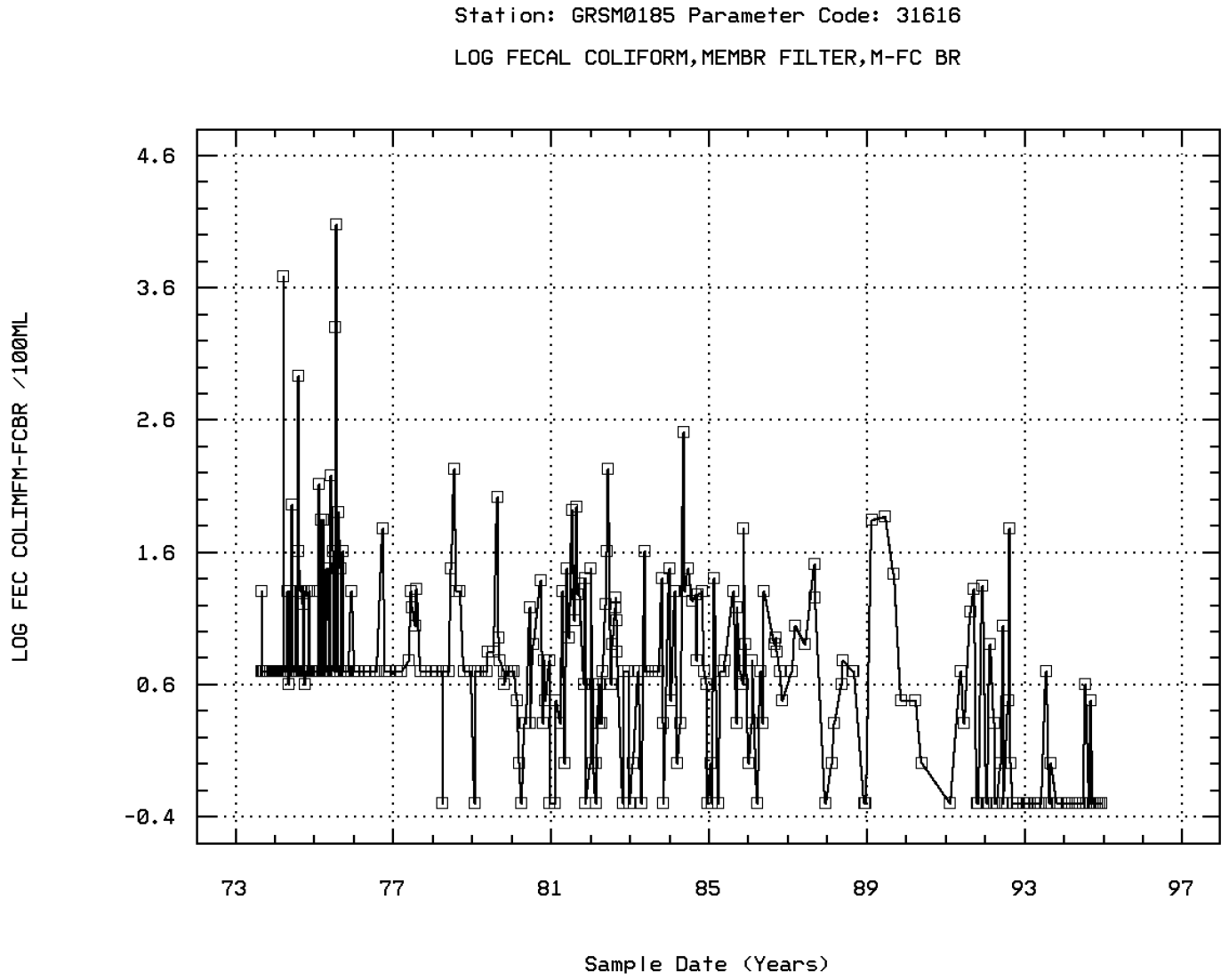
CATALOOCHEE CREEK NEAR CATALOOCHEE NC



CATALOOCHEE CREEK NEAR CATALOOCHEE NC



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CATALOOCHEE CREEK NEAR CATALOOCHEE NC

Annual Analysis for 1973 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/73-12/05/94	15	9.	11.4	18.	6.	21.4	4.626	6.6	7.	16.	18.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/73-12/05/94	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	09/04/73-12/05/94	15	10.5	10.3	11.7	8.5	0.821	0.906	8.86	9.4	10.8	11.7
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/04/73-09/19/85	4	92.	91.75	94.	89.	4.917	2.217	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/04/73-06/26/91	13	0.4	0.5	1.4	0.1	0.108	0.329	0.14	0.3	0.6	1.16
00335	COD, .025N K2CR2O7 MG/L	09/04/73-12/11/84	13 ##	12.5	12.5	12.5	12.5	0.	0.	12.5	12.5	12.5	12.5
00400p	PH (STANDARD UNITS)	09/04/73-12/05/94	15	7.	6.9	7.6	5.4	0.363	0.602	5.88	6.6	7.3	7.6
00400p	CONVERTED PH (STANDARD UNITS)	09/04/73-12/05/94	15	7.	6.378	7.6	5.4	0.655	0.809	5.88	6.6	7.3	7.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/73-12/05/94	15	0.1	0.419	3.981	0.025	1.003	1.002	0.025	0.05	0.251	1.971
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/04/73-06/26/91	15	6.	6.333	9.	4.	2.381	1.543	4.6	5.	8.	8.4
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/04/73-08/20/80	15	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	13 ##	5.	6.923	20.	5.	18.91	4.349	5.	5.	7.5	16.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	13 ##	0.699	0.792	1.301	0.699	0.036	0.19	0.699	0.699	0.849	1.181
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			6.189								

** - Less 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 1974 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/73-12/05/94	45	12.	11.811	19.	3.	17.617	4.197	5.	9.	15.5	17.
00065	STAGE, STREAM (FEET)	01/24/74-09/07/93	42	2.51	2.611	3.65	2.14	0.146	0.382	2.173	2.268	2.89	3.05
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/73-12/05/94	31	1.9	4.59	68.	0.4	142.322	11.93	0.6	1.	3.7	7.44
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/29/74-12/14/89	25	25.	21.68	35.	10.	67.643	8.225	10.	13.	29.	30.
00300p	OXYGEN, DISSOLVED MG/L	09/04/73-12/05/94	45	9.9	10.084	12.6	8.6	1.14	1.067	8.86	9.15	10.8	11.94
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/04/73-09/19/85	35	92.	91.914	102.	86.	9.845	3.138	87.6	90.	94.	95.4
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/04/73-06/26/91	45	0.7	0.826	3.	0.05	0.343	0.586	0.2	0.5	1.1	1.32
00335	COD, .025N K2CR2O7 MG/L	09/04/73-12/11/84	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	01/24/74-04/23/81	32 ##	12.5	15.609	46.	12.5	63.802	7.988	12.5	12.5	12.5	30.
00400p	PH (STANDARD UNITS)	09/04/73-12/05/94	42	6.8	6.86	7.4	6.3	0.07	0.265	6.46	6.7	7.	7.27
00400p	CONVERTED PH (STANDARD UNITS)	09/04/73-12/05/94	42	6.8	6.782	7.4	6.3	0.076	0.277	6.46	6.7	7.	7.27
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/73-12/05/94	42	0.158	0.165	0.501	0.04	0.012	0.108	0.054	0.1	0.2	0.354
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/04/73-06/26/91	41	6.	6.171	19.	4.	7.195	2.682	4.	5.	6.5	8.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/04/73-08/20/80	28	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	47 ##	5.	131.043	4800.	4.	499346.129	706.644	5.	5.	20.	24.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	47 ##	0.699	1.01	3.681	0.602	0.338	0.581	0.699	0.699	1.301	1.361
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			10.227								

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Annual Analysis for 1975 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/73-12/05/94	42	11.	10.857	19.	3.	24.808	4.981	5.	6.	15.	19.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/75-09/07/93	5	50.	55.	82.	43.	237.5	15.411	**	**	**	**
00065	STAGE, STREAM (FEET)	01/24/74-09/07/93	35	2.62	3.819	40.26	2.08	40.516	6.365	2.152	2.26	3.14	3.624
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/73-12/05/94	21	2.2	3.129	17.	1.4	11.053	3.325	1.52	2.	2.65	5.46
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/29/74-12/14/89	32	23.	25.25	48.	16.	43.806	6.619	20.3	21.25	27.75	31.
00300p	OXYGEN, DISSOLVED MG/L	09/04/73-12/05/94	41	10.3	10.588	13.9	2.	4.124	2.031	9.	9.3	12.	13.2
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/04/73-09/19/85	38	96.5	94.895	109.	71.	51.989	7.21	85.8	91.75	98.25	102.1
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/04/73-06/26/91	42	0.6	0.567	1.3	0.	0.095	0.308	0.2	0.3	0.8	1.
00340	COD, .25N K2CR2O7 MG/L	01/24/74-04/23/81	42 ##	12.5	12.5	12.5	12.5	0.	0.	12.5	12.5	12.5	12.5
00400p	PH (STANDARD UNITS)	09/04/73-12/05/94	42	6.25	6.329	7.5	5.7	0.133	0.364	6.	6.1	6.4	6.87
00400p	CONVERTED PH (STANDARD UNITS)	09/04/73-12/05/94	42	6.247	6.223	7.5	5.7	0.144	0.38	6.	6.1	6.4	6.87
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/73-12/05/94	42	0.566	0.599	1.995	0.032	0.138	0.372	0.136	0.398	0.794	1.

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Annual Analysis for 1975 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/04/73-06/26/91	42	7.	6.548	19.	1.	7.717	2.778	3.	6.	7.	9.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/04/73-08/20/80	13	0.	0.385	5.	0.	1.923	1.387	0.	0.	0.	3.
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	42 ##	5.	354.048	12000.	5.	3482892.973	1866.251	5.	5.	30.	115.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	42 ##	0.699	1.149	4.079	0.699	0.548	0.74	0.699	0.699	1.477	2.051
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			14.107								

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Annual Analysis for 1976 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/73-12/05/94	10	10.	9.7	18.	1.	39.344	6.273	1.	2.5	15.25	17.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/75-09/07/93	8	78.	91.	216.	39.	3397.714	58.29	**	**	**	**
00065	STAGE, STREAM (FEET)	01/24/74-09/07/93	10	2.52	2.56	3.09	2.2	0.114	0.337	2.2	2.26	2.893	3.077
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/73-12/05/94	11	2.	5.455	35.	2.	96.473	9.822	2.	2.	3.	28.8
00300p	OXYGEN, DISSOLVED MG/L	09/04/73-12/05/94	10	10.45	10.46	13.1	8.9	1.967	1.403	8.93	9.275	11.15	13.04
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/04/73-09/19/85	10	92.	90.3	95.	73.	40.456	6.36	74.5	90.25	93.25	94.9
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/04/73-06/26/91	10	0.5	0.465	0.8	0.05	0.073	0.271	0.055	0.25	0.7	0.79
00340	COD, .25N K2CR2O7 MG/L	01/24/74-04/23/81	10 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
00400p	PH (STANDARD UNITS)	09/04/73-12/05/94	9	6.8	6.733	7.	6.1	0.09	0.3	6.1	6.55	7.	7.
00400p	CONVERTED PH (STANDARD UNITS)	09/04/73-12/05/94	9	6.8	6.623	7.	6.1	0.104	0.322	6.1	6.55	7.	7.
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/73-12/05/94	9	0.158	0.238	0.794	0.1	0.049	0.222	0.1	0.1	0.284	0.794
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/04/73-06/26/91	9	6.	6.556	13.	4.	7.278	2.698	4.	4.5	7.	13.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/04/73-08/20/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	6	17.5	18.333	27.	10.	31.067	5.574	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	6 ##	0.5	2.167	8.	0.5	9.167	3.028	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/26/76-11/07/94	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/26/76-11/07/94	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/26/76-11/07/94	1	0.18	0.18	0.18	0.18	0.	0.	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/26/76-11/07/94	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	10 ##	5.	11.5	60.	5.	294.722	17.167	5.	5.	10.	55.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	10 ##	0.699	0.867	1.778	0.699	0.118	0.344	0.699	0.699	1.	1.7
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			7.364								

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Annual Analysis for 1977 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/73-12/05/94	12	13.5	12.167	18.	0.	29.97	5.474	0.9	11.25	16.5	17.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/75-09/07/93	3	120.	113.667	170.	51.	3570.333	59.752	**	**	**	**
00065	STAGE, STREAM (FEET)	01/24/74-09/07/93	13	2.48	2.562	2.94	2.23	0.062	0.248	2.258	2.35	2.785	2.924
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/73-12/05/94	11	3.	3.391	6.7	0.7	4.185	2.046	0.82	1.4	5.	6.7
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/29/74-12/14/89	10	13.	13.8	25.	10.	22.844	4.78	10.	10.	15.5	24.2
00300p	OXYGEN, DISSOLVED MG/L	09/04/73-12/05/94	11	10.1	10.564	13.	8.7	2.625	1.62	8.72	9.2	12.4	13.
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/04/73-09/19/85	10	94.	96.7	115.	89.	62.233	7.889	89.2	91.	101.	113.9
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/04/73-06/26/91	11	0.4	0.395	0.7	0.05	0.061	0.247	0.06	0.2	0.7	0.7
00340	COD, .25N K2CR2O7 MG/L	01/24/74-04/23/81	11 ##	5.	4.545	5.	0.	2.273	1.508	1.	5.	5.	5.
00400p	PH (STANDARD UNITS)	09/04/73-12/05/94	11	6.8	6.682	6.9	6.2	0.054	0.232	6.22	6.6	6.8	6.9
00400p	CONVERTED PH (STANDARD UNITS)	09/04/73-12/05/94	11	6.8	6.615	6.9	6.2	0.059	0.242	6.22	6.6	6.8	6.9
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/73-12/05/94	11	0.158	0.243	0.631	0.126	0.028	0.166	0.126	0.158	0.251	0.605
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/04/73-06/26/91	11	5.	5.182	6.	3.	0.964	0.982	3.2	5.	6.	6.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/04/73-08/20/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	11	23.	23.	33.	15.	43.	6.557	15.	18.	29.	33.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	11	1.	2.136	7.	0.5	4.255	2.063	0.5	0.5	4.	6.4

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Annual Analysis for 1977 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/26/76-11/07/94	9 ##	0.025	0.028	0.05	0.025	0.	0.008	0.025	0.025	0.025	0.05
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/26/76-11/07/94	9	0.1	0.111	0.2	0.05	0.003	0.055	0.05	0.075	0.15	0.2
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/26/76-11/07/94	9	0.16	0.154	0.23	0.025	0.004	0.065	0.025	0.11	0.215	0.23
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/26/76-11/07/94	9 ##	0.025	0.035	0.09	0.025	0.	0.022	0.025	0.025	0.038	0.09
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	13	10.	9.846	21.	5.	32.308	5.684	5.	5.	13.	20.6
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	13	1.	0.932	1.322	0.699	0.056	0.236	0.699	0.699	1.109	1.314
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			8.547								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/09/77-09/25/91	7 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**

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Annual Analysis for 1978 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/73-12/05/94	11	10.	11.364	19.	1.	38.455	6.201	1.4	8.	17.	18.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/75-09/07/93	10	95.5	100.7	225.	27.	3485.344	59.037	28.7	47.75	137.25	217.5
00065	STAGE, STREAM (FEET)	01/24/74-09/07/93	11	2.58	2.477	3.74	0.43	0.665	0.815	0.76	2.25	2.8	3.612
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/73-12/05/94	5	1.	1.24	2.	0.6	0.388	0.623	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/29/74-12/14/89	9	11.	11.889	20.	6.	20.111	4.485	6.	8.	15.	20.
00300p	OXYGEN, DISSOLVED MG/L	09/04/73-12/05/94	10	10.1	9.56	12.8	2.	8.965	2.994	2.64	8.85	11.325	12.72
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/04/73-09/19/85	2	87.	87.	90.	84.	18.	4.243	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/04/73-06/26/91	12	0.5	0.563	1.7	0.2	0.194	0.441	0.2	0.213	0.65	1.52
00340	COD, .25N K2CR2O7 MG/L	01/24/74-04/23/81	12 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
00400p	PH (STANDARD UNITS)	09/04/73-12/05/94	11	6.7	6.736	7.	6.4	0.035	0.186	6.42	6.6	6.9	6.98
00400p	CONVERTED PH (STANDARD UNITS)	09/04/73-12/05/94	11	6.7	6.699	7.	6.4	0.036	0.19	6.42	6.6	6.9	6.98
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/73-12/05/94	11	0.2	0.2	0.398	0.1	0.008	0.091	0.105	0.126	0.251	0.382
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/04/73-06/26/91	11	5.	5.182	7.	4.	0.964	0.982	4.	4.	6.	6.8
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/04/73-08/20/80	7	0.	0.	0.	0.	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	11	24.	22.909	32.	15.	33.691	5.804	15.	16.	27.	31.4
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	12	2.5	3.042	13.	0.5	11.884	3.447	0.5	0.625	4.	10.3
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/26/76-11/07/94	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/26/76-11/07/94	10 ##	0.075	0.075	0.1	0.05	0.001	0.026	0.05	0.05	0.1	0.1
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/26/76-11/07/94	10	0.175	0.163	0.24	0.025	0.004	0.062	0.034	0.125	0.2	0.239
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/26/76-11/07/94	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	14	7.5	21.464	170.	0.5	1892.326	43.501	2.75	5.	20.	100.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	14	0.849	0.943	2.23	-0.301	0.316	0.563	0.199	0.699	1.301	1.854
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			8.771								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/09/77-09/25/91	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025

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Annual Analysis for 1979 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/73-12/05/94	15	11.	10.2	18.	1.	31.279	5.593	2.2	4.	15.	16.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/75-09/07/93	11	95.	128.182	340.	59.	7346.964	85.714	59.6	62.	167.	314.8
00065	STAGE, STREAM (FEET)	01/24/74-09/07/93	12	2.56	2.667	3.46	2.35	0.111	0.334	2.356	2.38	2.853	3.34
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/73-12/05/94	2	1.	1.	1.5	0.5	0.5	0.707	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/29/74-12/14/89	8	15.	12.5	21.	3.	36.571	6.047	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	09/04/73-12/05/94	11	9.7	9.745	11.2	8.7	0.463	0.68	8.78	9.3	10.	11.06
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/04/73-06/26/91	11	0.3	0.314	0.6	0.05	0.026	0.161	0.08	0.2	0.4	0.58
00340	COD, .25N K2CR2O7 MG/L	01/24/74-04/23/81	13 ##	5.	5.615	13.	5.	4.923	2.219	5.	5.	5.	9.8
00400p	PH (STANDARD UNITS)	09/04/73-12/05/94	11	6.7	6.818	7.7	6.4	0.11	0.331	6.44	6.7	6.9	7.56
00400p	CONVERTED PH (STANDARD UNITS)	09/04/73-12/05/94	11	6.7	6.738	7.7	6.4	0.117	0.342	6.44	6.7	6.9	7.56
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/73-12/05/94	11	0.2	0.183	0.398	0.02	0.009	0.095	0.036	0.126	0.2	0.369

** - Less 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 GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	11/28/79-12/05/94	2	6.5	6.5	6.6	6.4	0.02	0.141	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-12/05/94	2	6.489	6.489	6.6	6.4	0.02	0.142	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-12/05/94	2	0.325	0.325	0.398	0.251	0.011	0.104	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/04/73-06/26/91	11	5.	4.818	6.	4.	0.764	0.874	4.	4.	6.	6.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/04/73-08/20/80	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	13	22.	23.077	37.	6.	71.91	8.48	10.	17.5	30.5	36.2
00505	RESIDUE, TOTAL VOLATILE (MG/L)	07/10/79-03/27/85	2	7.	7.	11.	3.	32.	5.657	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	07/10/79-03/27/85	2	15.5	15.5	19.	12.	24.5	4.95	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	13	3.	3.154	9.	0.5	5.933	2.436	0.5	1.	5.	7.4
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/10/79-03/27/85	2 ##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	07/10/79-03/27/85	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/26/76-11/07/94	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/26/76-11/07/94	11 ##	0.05	0.086	0.3	0.05	0.006	0.074	0.05	0.05	0.1	0.26
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/26/76-11/07/94	11	0.15	0.128	0.19	0.025	0.003	0.057	0.025	0.1	0.16	0.19
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/26/76-11/07/94	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	17	5.	11.853	104.	0.5	569.68	23.868	3.3	5.	9.	28.8
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	17	0.699	0.799	2.017	-0.301	0.184	0.428	0.421	0.699	0.954	1.203
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			6.299								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/09/77-09/25/91	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	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 1980 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/73-12/05/94	15	9.	10.373	18.	2.	25.851	5.084	3.8	6.	15.	18.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/75-09/07/93	14	72.	87.143	288.	30.	4536.593	67.354	31.	43.5	120.75	212.
00065	STAGE, STREAM (FEET)	01/24/74-09/07/93	14	2.435	2.47	3.31	2.12	0.101	0.318	2.13	2.238	2.693	3.035
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/73-12/05/94	8	0.65	0.775	1.3	0.5	0.099	0.315	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/29/74-12/14/89	9	17.	15.333	20.	5.	31.25	5.59	5.	11.	19.5	20.
00300p	OXYGEN, DISSOLVED MG/L	09/04/73-12/05/94	11	9.6	9.973	13.1	8.3	2.462	1.569	8.36	8.6	11.3	12.84
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/04/73-09/19/85	3	92.2	92.	94.9	88.9	9.03	3.005	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/04/73-06/26/91	12	0.35	0.392	0.9	0.1	0.052	0.227	0.1	0.225	0.5	0.81
00340	COD, .25N K2CR2O7 MG/L	01/24/74-04/23/81	12 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
00400p	PH (STANDARD UNITS)	09/04/73-12/05/94	3	6.9	6.917	7.05	6.8	0.016	0.126	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/04/73-12/05/94	3	6.9	6.905	7.05	6.8	0.016	0.127	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/73-12/05/94	3	0.126	0.125	0.158	0.089	0.001	0.035	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/28/79-12/05/94	12	6.8	6.817	7.	6.7	0.009	0.094	6.7	6.725	6.9	6.97
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-12/05/94	12	6.8	6.808	7.	6.7	0.009	0.094	6.7	6.725	6.9	6.97
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-12/05/94	12	0.158	0.156	0.2	0.1	0.001	0.032	0.108	0.126	0.189	0.2
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/04/73-06/26/91	12	6.	5.75	8.	4.	1.477	1.215	4.	5.	6.75	7.7
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/04/73-08/20/80	8	0.	0.	0.	0.	0.	0.	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	3	5.	5.667	8.	4.	4.333	2.082	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	12	26.5	25.	36.	12.	59.455	7.711	12.9	17.25	31.	34.8
00505	RESIDUE, TOTAL VOLATILE (MG/L)	07/10/79-03/27/85	3	17.	18.	21.	16.	7.	2.646	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	07/10/79-03/27/85	3	10.	11.333	20.	4.	65.333	8.083	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	12	2.	2.125	6.	0.5	2.778	1.667	0.5	0.625	3.	5.1
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/10/79-03/27/85	3 ##	0.5	1.	2.	0.5	0.75	0.866	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	07/10/79-03/27/85	3 ##	0.5	0.667	1.	0.5	0.083	0.289	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/26/76-11/07/94	10 ##	0.025	0.031	0.08	0.025	0.	0.017	0.025	0.025	0.025	0.075
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/26/76-11/07/94	10 ##	0.05	0.08	0.2	0.05	0.002	0.048	0.05	0.05	0.1	0.19
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/26/76-11/07/94	10	0.16	0.155	0.2	0.025	0.003	0.05	0.037	0.14	0.19	0.199
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/26/76-11/07/94	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	17	3.	5.647	24.	0.5	36.961	6.08	0.5	2.	7.	16.8
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	17	0.477	0.532	1.38	-0.301	0.224	0.474	-0.301	0.301	0.841	1.217
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			3.406								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/09/77-09/25/91	3 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**

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Annual Analysis for 1981 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/73-12/05/94	16	10.5	10.15	18.	0.2	37.815	6.149	0.2	6.25	16.5	17.3
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/75-09/07/93	19	53.	70.842	170.	28.	1750.363	41.837	33.	39.	108.	155.
00065	STAGE, STREAM (FEET)	01/24/74-09/07/93	19	2.31	2.403	2.85	2.1	0.053	0.23	2.14	2.22	2.63	2.84
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/73-12/05/94	12 ##	0.5	1.042	2.	0.5	0.521	0.722	0.5	0.5	2.	2.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	4	21.	21.	23.	19.	3.333	1.826	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/29/74-12/14/89	7	17.	17.286	22.	13.	8.905	2.984	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	09/04/73-12/05/94	12	9.95	10.408	13.4	8.5	2.446	1.564	8.65	9.05	11.85	13.01
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/04/73-09/19/85	12	91.9	90.317	96.8	81.1	21.616	4.649	82.27	85.9	93.4	96.2
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/04/73-06/26/91	12	0.5	0.475	0.7	0.2	0.018	0.136	0.23	0.4	0.575	0.67
00335	COD, .025N K2CR2O7 MG/L	09/04/73-12/11/84	8 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	01/24/74-04/23/81	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	09/04/73-12/05/94	11	6.8	6.818	7.25	6.4	0.057	0.239	6.44	6.65	7.	7.2
00400p	CONVERTED PH (STANDARD UNITS)	09/04/73-12/05/94	11	6.8	6.76	7.25	6.4	0.061	0.247	6.44	6.65	7.	7.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/73-12/05/94	11	0.158	0.174	0.398	0.056	0.009	0.096	0.065	0.1	0.224	0.369
00403	PH, LAB, STANDARD UNITS SU	11/28/79-12/05/94	13	6.6	6.654	6.9	6.5	0.013	0.113	6.5	6.6	6.7	6.86
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-12/05/94	13	6.6	6.641	6.9	6.5	0.013	0.113	6.5	6.6	6.7	6.86
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-12/05/94	13	0.251	0.229	0.316	0.126	0.003	0.055	0.139	0.2	0.251	0.316
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/04/73-06/26/91	12	5.	5.083	7.	3.	1.356	1.165	3.3	4.	6.	6.7
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	11	5.	5.727	8.	4.	1.818	1.348	4.	5.	7.	7.8
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	12	32.	33.25	49.	15.	100.932	10.046	16.8	26.5	43.	47.8
00505	RESIDUE, TOTAL VOLATILE (MG/L)	07/10/79-03/27/85	11	15.	18.455	38.	2.	141.873	11.911	2.6	9.	26.	37.8
00510	RESIDUE, TOTAL FIXED (MG/L)	07/10/79-03/27/85	11	17.	15.955	27.	0.5	59.323	7.702	1.8	11.	20.	26.6
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	12	4.	3.667	8.	0.5	6.379	2.526	0.5	1.25	5.	7.7
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/10/79-03/27/85	11	3.	2.455	5.	0.5	3.573	1.89	0.5	0.5	4.	5.
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	07/10/79-03/27/85	11	1.	1.682	8.	0.5	5.014	2.239	0.5	0.5	2.	7.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/26/76-11/07/94	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/26/76-11/07/94	10	0.1	0.145	0.3	0.05	0.008	0.09	0.055	0.1	0.225	0.3
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/26/76-11/07/94	10	0.185	0.183	0.25	0.12	0.001	0.036	0.124	0.16	0.203	0.246
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/26/76-11/07/94	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	20	10.	19.	88.	0.5	606.289	24.623	0.55	2.25	24.5	76.8
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	20	1.	0.898	1.944	-0.301	0.46	0.678	-0.271	0.345	1.389	1.87
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			7.91								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/09/77-09/25/91	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	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 1982 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/73-12/05/94	14	11.75	10.643	17.	2.	25.978	5.097	3.	6.	15.25	16.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/75-09/07/93	21	80.	101.952	257.	31.	3881.248	62.3	41.6	56.5	151.	219.4
00065	STAGE, STREAM (FEET)	01/24/74-09/07/93	21	2.45	2.545	3.21	2.13	0.092	0.304	2.212	2.33	2.825	3.078
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/73-12/05/94	12 ##	0.5	0.667	2.	0.5	0.197	0.444	0.5	0.5	0.5	1.7
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	11	15.	17.182	30.	12.	23.364	4.834	12.4	14.	19.	27.8
00300p	OXYGEN, DISSOLVED MG/L	09/04/73-12/05/94	12	10.2	10.417	12.9	9.	1.771	1.331	9.03	9.3	11.5	12.63
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/04/73-09/19/85	12	92.	90.917	98.	82.	16.629	4.078	83.5	87.75	93.	96.8
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/04/73-06/26/91	12	0.3	0.392	0.8	0.1	0.061	0.247	0.1	0.225	0.6	0.8
00335	COD, .025N K2CR2O7 MG/L	09/04/73-12/11/84	12 ##	5.	4.583	5.	2.5	0.947	0.973	2.5	5.	5.	5.
00400p	PH (STANDARD UNITS)	09/04/73-12/05/94	11	6.7	6.655	6.9	6.4	0.035	0.186	6.4	6.5	6.8	6.9
00400p	CONVERTED PH (STANDARD UNITS)	09/04/73-12/05/94	11	6.7	6.619	6.9	6.4	0.036	0.19	6.4	6.5	6.8	6.9
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/73-12/05/94	11	0.2	0.241	0.398	0.126	0.01	0.102	0.126	0.158	0.316	0.398
00403	PH, LAB, STANDARD UNITS SU	11/28/79-12/05/94	12	6.65	6.625	7.	6.3	0.037	0.191	6.33	6.45	6.7	6.94
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-12/05/94	12	6.647	6.587	7.	6.3	0.038	0.195	6.33	6.45	6.7	6.94
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-12/05/94	12	0.225	0.259	0.501	0.1	0.013	0.116	0.118	0.2	0.361	0.47
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/04/73-06/26/91	12	5.	5.	7.	4.	0.909	0.953	4.	4.	5.75	6.7
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	11	5.	4.545	6.	3.	1.073	1.036	3.	4.	5.	6.
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	12	33.	34.333	50.	24.	57.697	7.596	24.9	29.	39.75	47.9

** - 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 1982 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00505	RESIDUE, TOTAL VOLATILE (MG/L)	07/10/79-03/27/85	12	17.5	19.75	41.	11.	71.477	8.454	11.3	13.25	24.75	36.5
00510	RESIDUE, TOTAL FIXED (MG/L)	07/10/79-03/27/85	12	13.5	14.583	23.	8.	21.356	4.621	8.3	11.25	18.25	22.4
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	12	3.	3.375	7.	0.5	4.142	2.035	0.65	2.	5.5	6.7
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/10/79-03/27/85	12	1.5	1.75	4.	0.5	1.568	1.252	0.5	0.5	3.	3.7
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	07/10/79-03/27/85	12	1.5	1.958	5.	0.5	2.93	1.712	0.5	0.5	3.	5.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/26/76-11/07/94	12 ##	0.025	0.022	0.025	0.005	0.	0.008	0.005	0.025	0.025	0.025
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/26/76-11/07/94	12	0.1	0.108	0.2	0.05	0.002	0.047	0.05	0.1	0.1	0.2
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/26/76-11/07/94	12	0.19	0.179	0.25	0.025	0.003	0.057	0.06	0.158	0.21	0.241
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/26/76-11/07/94	12 ##	0.025	0.023	0.025	0.01	0.	0.004	0.013	0.025	0.025	0.025
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	21	5.	15.714	170.	0.5	1330.489	36.476	0.6	2.	13.5	35.6
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	21	0.699	0.724	2.23	-0.301	0.378	0.615	-0.241	0.301	1.128	1.533
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.293								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/09/77-09/25/91	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	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 1983 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/73-12/05/94	13	8.	9.846	19.	4.	29.266	5.41	4.	5.25	14.5	18.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/75-09/07/93	15	67.	105.733	381.	28.	8814.924	93.888	29.2	40.	140.	282.
00065	STAGE, STREAM (FEET)	01/24/74-09/07/93	15	2.4	2.537	3.57	2.1	0.171	0.413	2.112	2.15	2.78	3.27
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/73-12/05/94	12 ##	0.5	0.625	1.3	0.5	0.086	0.293	0.5	0.5	0.5	1.27
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	12	21.5	20.167	32.	7.	63.606	7.975	7.9	12.5	26.	31.1
00300p	OXYGEN, DISSOLVED MG/L	09/04/73-12/05/94	12	10.2	10.5	12.5	8.4	1.938	1.392	8.49	9.5	12.	12.41
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/04/73-09/19/85	11	92.	91.545	96.	85.	12.673	3.56	85.2	89.	94.	95.8
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/04/73-06/26/91	12	0.2	0.267	0.7	0.05	0.047	0.218	0.05	0.1	0.45	0.67
00335	COD, .025N K2CR2O7 MG/L	09/04/73-12/11/84	12 ##	2.5	2.792	6.	2.5	1.021	1.01	2.5	2.5	2.5	4.95
00400p	PH (STANDARD UNITS)	09/04/73-12/05/94	11	6.8	6.736	7.	6.5	0.025	0.157	6.5	6.6	6.8	6.98
00400p	CONVERTED PH (STANDARD UNITS)	09/04/73-12/05/94	11	6.8	6.71	7.	6.5	0.025	0.159	6.5	6.6	6.8	6.98
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/73-12/05/94	11	0.158	0.195	0.316	0.1	0.005	0.072	0.105	0.158	0.251	0.316
00403	PH, LAB, STANDARD UNITS SU	11/28/79-12/05/94	12	6.7	6.708	6.9	6.5	0.019	0.138	6.5	6.6	6.8	6.9
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-12/05/94	12	6.7	6.688	6.9	6.5	0.019	0.14	6.5	6.6	6.8	6.9
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-12/05/94	12	0.2	0.205	0.316	0.126	0.004	0.066	0.126	0.158	0.251	0.316
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/04/73-06/26/91	12	5.5	5.25	7.	4.	1.114	1.055	4.	4.	6.	6.7
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	11	5.	4.818	8.	3.	1.764	1.328	3.2	4.	5.	7.6
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	12	28.	27.667	36.	18.	36.606	6.05	18.6	21.75	33.5	35.7
00505	RESIDUE, TOTAL VOLATILE (MG/L)	07/10/79-03/27/85	12	14.5	12.625	21.	0.5	42.778	6.541	1.25	7.25	17.75	20.4
00510	RESIDUE, TOTAL FIXED (MG/L)	07/10/79-03/27/85	12	14.5	15.083	20.	11.	10.447	3.232	11.	12.	18.	19.7
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	12	1.5	1.542	3.	0.5	0.839	0.916	0.5	0.625	2.	3.
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/10/79-03/27/85	12	1.	1.292	3.	0.5	0.748	0.865	0.5	0.5	2.	2.7
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	07/10/79-03/27/85	12 ##	0.5	0.75	3.	0.5	0.523	0.723	0.5	0.5	0.5	2.4
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/26/76-11/07/94	12	0.01	0.01	0.02	0.005	0.	0.005	0.005	0.006	0.01	0.02
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/26/76-11/07/94	12 ##	0.05	0.092	0.3	0.05	0.006	0.079	0.05	0.05	0.1	0.27
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/26/76-11/07/94	12	0.155	0.147	0.24	0.03	0.003	0.056	0.045	0.12	0.185	0.228
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/26/76-11/07/94	12	0.02	0.018	0.03	0.01	0.	0.006	0.01	0.01	0.02	0.027
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/24/83-12/05/94	4	4.	3.5	4.	2.	1.	1.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	02/24/83-12/19/90	10 ##	2.5	2.5	2.5	2.5	0.	0.	2.5	2.5	2.5	2.5
01105	ALUMINUM, TOTAL (UG/L AS AL)	02/24/83-11/07/94	10 ##	75.	95.	200.	50.	3583.333	59.861	50.	50.	125.	200.
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	15	5.	8.3	40.	0.5	115.886	10.765	0.5	1.	10.	31.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	15	0.699	0.593	1.602	-0.301	0.361	0.601	-0.301	0.	1.	1.48
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			3.916								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/09/77-09/25/91	12 ##	0.005	0.007	0.01	0.005	0.	0.002	0.005	0.005	0.01	0.01

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Annual Analysis for 1984 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/73-12/05/94	12	8.5	9.583	16.	4.	27.174	5.213	4.	4.25	15.	16.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/75-09/07/93	17	77.	179.588	1550.	34.	127165.257	356.602	38.	52.5	158.	447.6
00065	STAGE, STREAM (FEET)	01/24/74-09/07/93	17	2.42	2.652	5.29	2.16	0.516	0.718	2.192	2.295	2.775	3.322
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/73-12/05/94	13 ##	0.5	1.038	5.8	0.3	2.201	1.484	0.38	0.5	0.8	4.2
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	11	24.	22.091	27.	14.	22.691	4.763	14.	18.	26.	27.
00300p	OXYGEN, DISSOLVED MG/L	09/04/73-12/05/94	12	10.65	10.65	12.6	8.9	1.737	1.318	8.96	9.3	11.9	12.45
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/04/73-09/19/85	6	91.	90.833	95.	87.	7.367	2.714	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/04/73-06/26/91	12	0.4	0.442	0.7	0.2	0.03	0.173	0.23	0.3	0.65	0.7
00335	COD, .025N K2CR2O7 MG/L	09/04/73-12/11/84	12 ##	2.5	2.875	7.	2.5	1.688	1.299	2.5	2.5	2.5	5.65
00400p	PH (STANDARD UNITS)	09/04/73-12/05/94	12	6.8	6.808	7.1	6.5	0.035	0.188	6.53	6.7	6.975	7.1
00400p	CONVERTED PH (STANDARD UNITS)	09/04/73-12/05/94	12	6.8	6.772	7.1	6.5	0.037	0.192	6.53	6.7	6.975	7.1
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/73-12/05/94	12	0.158	0.169	0.316	0.079	0.005	0.07	0.079	0.106	0.2	0.297
00403	PH, LAB, STANDARD UNITS SU	11/28/79-12/05/94	12	6.7	6.725	7.	6.6	0.013	0.114	6.6	6.625	6.8	6.94
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-12/05/94	12	6.7	6.712	7.	6.6	0.013	0.115	6.6	6.625	6.8	6.94
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-12/05/94	12	0.2	0.194	0.251	0.1	0.002	0.045	0.118	0.158	0.238	0.251
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/04/73-06/26/91	12	5.	5.25	7.	4.	0.75	0.866	4.3	5.	5.	7.
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	12	4.	3.917	5.	2.	0.811	0.9	2.3	3.25	4.75	5.
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	13	24.	24.462	40.	6.	146.269	12.094	6.8	11.	35.5	39.2
00505	RESIDUE, TOTAL VOLATILE (MG/L)	07/10/79-03/27/85	13	11.	12.423	26.	0.5	86.577	9.305	0.7	3.	21.	25.6
00510	RESIDUE, TOTAL FIXED (MG/L)	07/10/79-03/27/85	13	11.	12.077	23.	4.	43.077	6.563	4.4	6.	19.	22.2
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	13 ##	0.5	0.846	3.	0.5	0.599	0.774	0.5	0.5	0.75	2.6
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/10/79-03/27/85	13 ##	0.5	0.846	3.	0.5	0.599	0.774	0.5	0.5	0.75	2.6
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	07/10/79-03/27/85	13 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/26/76-11/07/94	13	0.02	0.023	0.06	0.005	0.	0.015	0.007	0.01	0.03	0.052
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/26/76-11/07/94	13	0.1	0.112	0.4	0.005	0.011	0.104	0.023	0.05	0.15	0.32
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/26/76-11/07/94	13	0.15	0.136	0.23	0.005	0.005	0.069	0.005	0.105	0.17	0.226
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/26/76-11/07/94	13	0.01	0.015	0.03	0.01	0.	0.007	0.01	0.01	0.02	0.026
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/24/83-12/05/94	5	2.	3.	5.	2.	2.	1.414	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	02/24/83-12/19/90	11 ##	2.5	2.5	2.5	2.5	0.	0.	2.5	2.5	2.5	2.5
01105	ALUMINUM, TOTAL (UG/L AS AL)	02/24/83-11/07/94	10 ##	50.	70.	200.	50.	2333.333	48.305	50.	50.	62.5	190.
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	17	17.	30.971	320.	0.5	5643.515	75.123	0.9	3.5	20.	88.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	17	1.23	0.983	2.505	-0.301	0.434	0.659	-0.06	0.54	1.301	1.683
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			9.611								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/09/77-09/25/91	13 ##	0.005	0.007	0.01	0.005	0.	0.003	0.005	0.005	0.01	0.01

** - Less 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 GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/73-12/05/94	13	13.	10.615	18.5	0.	32.298	5.683	1.6	6.	14.5	18.3
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/75-09/07/93	14	66.	83.286	282.	26.	4357.912	66.014	28.5	40.75	98.25	213.
00065	STAGE, STREAM (FEET)	01/24/74-09/07/93	14	2.44	2.439	3.22	2.08	0.086	0.294	2.1	2.22	2.553	2.965
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/73-12/05/94	5 ##	0.5	1.12	3.6	0.5	1.922	1.386	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	12	19.5	18.75	25.	13.	15.114	3.888	13.	15.	21.75	24.1
00300p	OXYGEN, DISSOLVED MG/L	09/04/73-12/05/94	12	10.15	10.167	12.9	8.2	2.055	1.434	8.26	8.85	11.125	12.63
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/04/73-09/19/85	6	88.5	89.833	97.	85.	19.367	4.401	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/04/73-06/26/91	6	0.5	0.467	0.6	0.3	0.011	0.103	**	**	**	**
00400p	PH (STANDARD UNITS)	09/04/73-12/05/94	11	6.7	6.764	7.1	6.3	0.053	0.229	6.36	6.6	7.	7.08
00400p	CONVERTED PH (STANDARD UNITS)	09/04/73-12/05/94	11	6.7	6.706	7.1	6.3	0.056	0.237	6.36	6.6	7.	7.08
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/73-12/05/94	11	0.2	0.197	0.501	0.079	0.014	0.117	0.084	0.1	0.251	0.451
00403	PH, LAB, STANDARD UNITS SU	11/28/79-12/05/94	12	6.7	6.717	7.	6.6	0.014	0.119	6.6	6.6	6.8	6.94
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-12/05/94	12	6.7	6.703	7.	6.6	0.014	0.12	6.6	6.6	6.8	6.94
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-12/05/94	12	0.2	0.198	0.251	0.1	0.002	0.048	0.118	0.158	0.251	0.251
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/04/73-06/26/91	12	5.	5.417	7.	4.	0.992	0.996	4.	5.	6.	7.
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	11	5.	5.182	7.	4.	1.364	1.168	4.	4.	6.	7.
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	12	30.5	36.417	80.	22.	265.174	16.284	22.3	25.5	45.25	70.4

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Annual Analysis for 1985 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00505	RESIDUE, TOTAL VOLATILE (MG/L)	07/10/79-03/27/85	3	21.	20.	24.	15.	21.	4.583	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	07/10/79-03/27/85	3	9.	9.	14.	4.	25.	5.	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	12	2.	2.5	6.	0.5	3.136	1.771	0.5	1.	3.75	5.7
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/10/79-03/27/85	3 ##	0.5	1.	2.	0.5	0.75	0.866	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	07/10/79-03/27/85	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/26/76-11/07/94	12	0.01	0.015	0.04	0.005	0.	0.009	0.007	0.01	0.02	0.034
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/26/76-11/07/94	12	0.15	0.134	0.2	0.005	0.005	0.074	0.019	0.063	0.2	0.2
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/26/76-11/07/94	12	0.145	0.164	0.26	0.02	0.004	0.065	0.053	0.14	0.213	0.26
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/26/76-11/07/94	12	0.02	0.02	0.04	0.005	0.	0.01	0.007	0.01	0.028	0.037
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/24/83-12/05/94	12	4.	4.25	7.	3.	1.295	1.138	3.	3.25	5.	6.4
00945	SULFATE, TOTAL (MG/L AS SO4)	02/24/83-12/19/90	12 ##	2.5	3.292	12.	2.5	7.521	2.742	2.5	2.5	2.5	9.15
01105	ALUMINUM, TOTAL (UG/L AS AL)	02/24/83-11/07/94	12	100.	104.167	200.	50.	3844.697	62.006	50.	50.	175.	200.
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	16	5.5	11.063	60.	0.5	219.229	14.806	0.5	2.5	13.75	35.5
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	16	0.739	0.733	1.778	-0.301	0.341	0.584	-0.301	0.376	1.132	1.512
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.411								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/09/77-09/25/91	12 ##	0.01	0.011	0.05	0.005	0.	0.012	0.005	0.005	0.01	0.038

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Annual Analysis for 1986 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/73-12/05/94	11	14.	12.	18.	3.	27.4	5.235	3.4	7.	16.	18.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/75-09/07/93	11	44.	50.545	104.	24.	928.273	30.468	24.	25.	84.	102.8
00065	STAGE, STREAM (FEET)	01/24/74-09/07/93	11	2.24	2.255	2.61	2.04	0.046	0.215	2.042	2.06	2.5	2.604
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/73-12/05/94	4 ##	0.5	0.575	1.	0.3	0.089	0.299	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	8	18.5	18.25	25.	10.	39.643	6.296	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/29/74-12/14/89	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	09/04/73-12/05/94	11	9.7	9.936	11.8	8.3	1.327	1.152	8.38	8.9	10.8	11.76
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/04/73-06/26/91	4	0.5	0.65	1.2	0.4	0.137	0.37	**	**	**	**
00400p	PH (STANDARD UNITS)	09/04/73-12/05/94	11	6.7	6.809	7.2	6.5	0.061	0.247	6.52	6.6	7.	7.2
00400p	CONVERTED PH (STANDARD UNITS)	09/04/73-12/05/94	11	6.7	6.752	7.2	6.5	0.064	0.254	6.52	6.6	7.	7.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/73-12/05/94	11	0.2	0.177	0.316	0.063	0.007	0.086	0.063	0.1	0.251	0.303
00403	PH, LAB, STANDARD UNITS SU	11/28/79-12/05/94	11	6.7	6.718	6.9	6.6	0.008	0.087	6.6	6.7	6.8	6.88
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-12/05/94	11	6.7	6.71	6.9	6.6	0.008	0.088	6.6	6.7	6.8	6.88
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-12/05/94	11	0.2	0.195	0.251	0.126	0.001	0.037	0.132	0.158	0.2	0.251
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/04/73-06/26/91	11	6.	5.727	7.	4.	1.218	1.104	4.	5.	7.	7.
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	8	7.	6.5	9.	4.	4.857	2.204	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	11	31.	26.636	42.	5.	130.255	11.413	7.	15.	36.	41.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	11	1.	2.045	8.	0.5	5.773	2.403	0.5	0.5	3.	7.4
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/26/76-11/07/94	9	0.03	0.024	0.04	0.01	0.	0.01	0.01	0.015	0.03	0.04
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/26/76-11/07/94	9	0.1	0.117	0.2	0.05	0.003	0.05	0.05	0.1	0.15	0.2
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/26/76-11/07/94	9	0.14	0.17	0.27	0.12	0.003	0.051	0.12	0.135	0.205	0.27
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/26/76-11/07/94	9	0.02	0.017	0.03	0.01	0.	0.007	0.01	0.01	0.02	0.03
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/24/83-12/05/94	9	5.	4.778	6.	3.	0.944	0.972	3.	4.	5.5	6.
00945	SULFATE, TOTAL (MG/L AS SO4)	02/24/83-12/19/90	9 ##	2.5	2.778	5.	2.5	0.694	0.833	2.5	2.5	2.5	5.
01105	ALUMINUM, TOTAL (UG/L AS AL)	02/24/83-11/07/94	10	50.	60.5	150.	25.	1574.722	39.683	25.	25.	85.	145.
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	14	5.5	6.321	20.	0.5	26.062	5.105	0.75	2.	9.25	15.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	14	0.739	0.64	1.301	-0.301	0.191	0.437	-0.151	0.301	0.966	1.151
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			4.364								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/09/77-09/25/91	9	0.01	0.009	0.02	0.005	0.	0.005	0.005	0.005	0.01	0.02

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Annual Analysis for 1987 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/73-12/05/94	4	10.	9.75	16.	3.	44.917	6.702	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/75-09/07/93	3	72.	59.	80.	25.	883.	29.715	**	**	**	**
00065	STAGE, STREAM (FEET)	01/24/74-09/07/93	3	2.43	2.337	2.48	2.1	0.043	0.206	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/73-12/05/94	4 ##	0.5	0.388	0.5	0.05	0.051	0.225	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	4	22.	21.5	25.	17.	13.667	3.697	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	09/04/73-12/05/94	4	10.15	10.35	12.1	9.	2.137	1.462	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/04/73-06/26/91	4	0.5	0.525	0.7	0.4	0.022	0.15	**	**	**	**
00400p	PH (STANDARD UNITS)	09/04/73-12/05/94	3	6.7	6.667	6.7	6.6	0.003	0.058	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/04/73-12/05/94	3	6.7	6.664	6.7	6.6	0.003	0.058	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/73-12/05/94	3	0.2	0.217	0.251	0.2	0.001	0.03	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/28/79-12/05/94	4	6.8	6.775	6.8	6.7	0.002	0.05	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-12/05/94	4	6.8	6.773	6.8	6.7	0.003	0.05	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-12/05/94	4	0.158	0.169	0.2	0.158	0.	0.021	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/04/73-06/26/91	4	5.	5.25	7.	4.	1.583	1.258	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	2	6.	6.	6.	6.	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	4	34.5	35.	41.	30.	28.667	5.354	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	4	2.5	2.375	4.	0.5	2.229	1.493	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/26/76-11/07/94	3	0.03	0.03	0.04	0.02	0.	0.01	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/26/76-11/07/94	3	0.1	0.133	0.2	0.1	0.003	0.058	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/26/76-11/07/94	3	0.16	0.157	0.16	0.15	0.	0.006	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/26/76-11/07/94	3	0.03	0.027	0.04	0.01	0.	0.015	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/24/83-12/05/94	4	5.5	6.	8.	5.	2.	1.414	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	02/24/83-12/19/90	4 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	02/24/83-11/07/94	2	125.	125.	150.	100.	1250.	35.355	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	7	10.	12.071	32.	0.5	106.369	10.314	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	7	1.	0.872	1.505	-0.301	0.333	0.577	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			7.444								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/09/77-09/25/91	3 ##	0.005	0.007	0.01	0.005	0.	0.003	**	**	**	**

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Annual Analysis for 1988 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/73-12/05/94	4	7.	9.	20.	2.	70.	8.367	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/75-09/07/93	2	35.5	35.5	39.	32.	24.5	4.95	**	**	**	**
00065	STAGE, STREAM (FEET)	01/24/74-09/07/93	2	2.14	2.14	2.18	2.1	0.003	0.057	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/73-12/05/94	4 ##	0.9	0.9	1.3	0.5	0.213	0.462	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	4	21.5	23.5	38.	13.	137.667	11.733	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	09/04/73-12/05/94	4	11.15	11.3	13.3	9.6	3.047	1.745	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/04/73-06/26/91	4	0.25	0.35	0.7	0.2	0.057	0.238	**	**	**	**
00400p	PH (STANDARD UNITS)	09/04/73-12/05/94	4	6.55	6.55	6.8	6.3	0.057	0.238	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/04/73-12/05/94	4	6.525	6.503	6.8	6.3	0.06	0.244	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/73-12/05/94	4	0.299	0.314	0.501	0.158	0.026	0.163	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/28/79-12/05/94	4	6.65	6.7	6.9	6.6	0.02	0.141	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-12/05/94	4	6.647	6.684	6.9	6.6	0.02	0.143	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-12/05/94	4	0.225	0.207	0.251	0.126	0.004	0.059	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/04/73-06/26/91	4	5.5	5.25	6.	4.	0.917	0.957	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	4	5.	4.75	6.	3.	1.583	1.258	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	4	29.	27.	32.	18.	40.667	6.377	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	4	1.5	1.625	3.	0.5	1.229	1.109	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/26/76-11/07/94	3	0.02	0.017	0.02	0.01	0.	0.006	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/26/76-11/07/94	3 ##	0.05	0.067	0.1	0.05	0.001	0.029	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/26/76-11/07/94	3	0.17	0.18	0.24	0.13	0.003	0.056	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/26/76-11/07/94	3	0.02	0.017	0.02	0.01	0.	0.006	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/24/83-12/05/94	4	5.	5.25	7.	4.	1.583	1.258	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	02/24/83-12/19/90	4 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**

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Annual Analysis for 1988 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01105	ALUMINUM, TOTAL (UG/L AS AL)	02/24/83-11/07/94	3 ##	25.	33.333	50.	25.	208.333	14.434	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	8 ##	3.	3.	6.	0.5	5.071	2.252	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	8 ##	0.452	0.31	0.778	-0.301	0.207	0.455	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			2.04								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/09/77-09/25/91	3	0.01	0.013	0.02	0.01	0.	0.006	**	**	**	**

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Annual Analysis for 1989 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/73-12/05/94	5	12.	9.3	16.	2.5	37.95	6.16	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/75-09/07/93	5	141.	207.4	420.	64.	19855.8	140.911	**	**	**	**
00065	STAGE, STREAM (FEET)	01/24/74-09/07/93	5	2.73	2.906	3.55	2.35	0.216	0.465	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/73-12/05/94	5	1.5	1.6	4.	0.5	2.05	1.432	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	4	14.	15.	20.	12.	12.	3.464	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/29/74-12/14/89	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	09/04/73-12/05/94	5	10.	10.44	12.2	9.	2.063	1.436	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/04/73-06/26/91	4	0.4	0.488	1.1	0.05	0.201	0.448	**	**	**	**
00400p	PH (STANDARD UNITS)	09/04/73-12/05/94	5	6.9	6.978	7.59	6.6	0.179	0.423	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/04/73-12/05/94	5	6.9	6.843	7.59	6.6	0.202	0.449	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/73-12/05/94	5	0.126	0.143	0.251	0.026	0.011	0.105	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/28/79-12/05/94	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-12/05/94	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-12/05/94	1	0.316	0.316	0.316	0.316	0.	0.	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/04/73-06/26/91	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	4	6.	6.5	9.	5.	3.667	1.915	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	5	32.	31.	36.	26.	19.	4.359	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	5	3.	3.6	7.	1.	4.8	2.191	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/26/76-11/07/94	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/26/76-11/07/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/26/76-11/07/94	1	0.21	0.21	0.21	0.21	0.	0.	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/26/76-11/07/94	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/24/83-12/05/94	5	5.	4.8	8.	2.	5.7	2.387	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	02/24/83-12/19/90	4 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	02/24/83-11/07/94	4	69.5	108.5	270.	25.	12285.667	110.841	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	4	48.	43.25	74.	3.	1164.25	34.121	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	4	1.635	1.404	1.869	0.477	0.422	0.649	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			25.36								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/09/77-09/25/91	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**

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Annual Analysis for 1990 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/73-12/05/94	4	12.	11.	14.	6.	14.667	3.83	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/75-09/07/93	4	105.	105.25	177.	34.	4818.917	69.418	**	**	**	**
00065	STAGE, STREAM (FEET)	01/24/74-09/07/93	4	2.545	2.523	2.87	2.13	0.126	0.355	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/73-12/05/94	4 ##	0.75	0.75	1.	0.5	0.083	0.289	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	4	12.5	13.25	18.	10.	11.583	3.403	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	09/04/73-12/05/94	4	10.1	10.025	10.8	9.1	0.656	0.81	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/04/73-06/26/91	4	0.25	0.225	0.3	0.1	0.009	0.096	**	**	**	**
00400p	PH (STANDARD UNITS)	09/04/73-12/05/94	4	6.8	6.775	6.9	6.6	0.016	0.126	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/04/73-12/05/94	4	6.8	6.761	6.9	6.6	0.016	0.127	**	**	**	**

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Annual Analysis for 1990 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/73-12/05/94	4	0.158	0.174	0.251	0.126	0.003	0.054	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/28/79-12/05/94	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-12/05/94	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-12/05/94	1	0.158	0.158	0.158	0.158	0.	0.	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/04/73-06/26/91	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	4	6.5	6.25	7.	5.	0.917	0.957	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	4	28.5	29.75	40.	22.	69.583	8.342	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	4	2.5	2.5	3.	2.	0.333	0.577	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/26/76-11/07/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/26/76-11/07/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/26/76-11/07/94	1	0.18	0.18	0.18	0.18	0.	0.	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/26/76-11/07/94	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/24/83-12/05/94	4	5.	4.75	6.	3.	1.583	1.258	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	02/24/83-12/19/90	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	02/24/83-11/07/94	2 ##	40.	40.	55.	25.	450.	21.213	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	2	2.	2.	3.	1.	2.	1.414	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	2	0.239	0.239	0.477	0.	0.114	0.337	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.732								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/09/77-09/25/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**

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Annual Analysis for 1991 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/73-12/05/94	4	12.5	11.25	14.	6.	14.25	3.775	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/73-12/05/94	5	1.5	1.6	3.	0.5	1.3	1.14	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	4	21.5	19.75	24.	12.	28.25	5.315	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	09/04/73-12/05/94	4	9.5	9.75	11.3	8.7	1.45	1.204	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/04/73-06/26/91	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	09/04/73-12/05/94	4	6.85	6.85	7.	6.7	0.017	0.129	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/04/73-12/05/94	4	6.847	6.836	7.	6.7	0.017	0.13	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/73-12/05/94	4	0.142	0.146	0.2	0.1	0.002	0.043	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/28/79-12/05/94	2	6.75	6.75	6.8	6.7	0.005	0.071	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-12/05/94	2	6.747	6.747	6.8	6.7	0.005	0.071	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-12/05/94	2	0.179	0.179	0.2	0.158	0.001	0.029	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/04/73-06/26/91	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	4	6.	6.25	7.	6.	0.25	0.5	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	5 ##	0.5	3.3	13.	0.5	29.825	5.461	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/26/76-11/07/94	5	0.02	0.016	0.02	0.01	0.	0.005	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/26/76-11/07/94	5	0.2	0.15	0.2	0.05	0.005	0.071	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/26/76-11/07/94	5	0.08	0.079	0.15	0.005	0.003	0.059	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/26/76-11/07/94	5	0.01	0.014	0.03	0.01	0.	0.009	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/24/83-12/05/94	5	4.	3.8	6.	2.	2.2	1.483	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	02/24/83-11/07/94	5	71.	105.8	250.	25.	7976.7	89.312	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	8	3.5	8.188	22.	0.5	87.781	9.369	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	8	0.5	0.488	1.342	-0.301	0.544	0.737	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			3.079								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/09/77-09/25/91	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**

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Annual Analysis for 1992 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/73-12/05/94	12	11.5	10.75	18.	4.	25.841	5.083	4.	5.5	15.	17.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/75-09/07/93	13	83.	109.077	257.	49.	3931.244	62.7	55.4	72.	134.	239.
00065	STAGE, STREAM (FEET)	01/24/74-09/07/93	13	2.51	2.602	3.17	2.29	0.067	0.258	2.334	2.45	2.745	3.11
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/73-12/05/94	12 ##	0.5	0.85	2.	0.5	0.305	0.552	0.5	0.5	1.275	1.91
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	12	18.5	19.083	25.	14.	19.72	4.441	14.	14.25	23.75	25.
00300p	OXYGEN, DISSOLVED MG/L	09/04/73-12/05/94	11	9.8	9.827	11.7	8.	1.194	1.093	8.14	9.	10.3	11.64
00400p	PH (STANDARD UNITS)	09/04/73-12/05/94	12	6.3	6.517	7.4	6.	0.245	0.495	6.	6.125	7.025	7.34
00400p	CONVERTED PH (STANDARD UNITS)	09/04/73-12/05/94	12	6.289	6.325	7.4	6.	0.285	0.534	6.	6.125	7.025	7.34
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/73-12/05/94	12	0.515	0.473	1.	0.04	0.127	0.356	0.047	0.099	0.753	1.
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	12	3.5	4.333	9.	2.	6.242	2.498	2.	2.	6.5	8.7
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	1	29.	29.	29.	29.	0.	0.	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	12	1.5	1.958	7.	0.5	3.839	1.959	0.5	0.5	2.75	6.1
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/26/76-11/07/94	12	0.02	0.023	0.05	0.005	0.	0.015	0.005	0.01	0.038	0.047
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/26/76-11/07/94	12	0.2	0.167	0.3	0.05	0.007	0.086	0.05	0.1	0.2	0.3
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/26/76-11/07/94	12	0.16	0.151	0.21	0.005	0.003	0.056	0.04	0.13	0.195	0.21
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/26/76-11/07/94	12	0.01	0.017	0.05	0.005	0.	0.013	0.005	0.01	0.02	0.044
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/24/83-12/05/94	12	4.	4.75	12.	2.	7.477	2.734	2.	3.	5.75	10.5
01105	ALUMINUM, TOTAL (UG/L AS AL)	02/24/83-11/07/94	12 ##	25.	54.167	210.	25.	3109.424	55.762	25.	25.	78.	177.
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	15 ##	0.5	6.	60.	0.5	233.	15.264	0.5	0.5	3.	30.6
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	15 ##	-0.301	0.14	1.778	-0.301	0.415	0.644	-0.301	-0.301	0.477	1.336
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.379								

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Annual Analysis for 1993 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/73-12/05/94	10	13.	12.3	19.	3.	35.122	5.926	3.	6.75	17.25	18.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/75-09/07/93	8	73.	104.75	223.	44.	4869.357	69.781	**	**	**	**
00065	STAGE, STREAM (FEET)	01/24/74-09/07/93	8	2.455	2.581	3.09	2.27	0.109	0.329	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/73-12/05/94	10 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	10	16.5	17.	21.	14.	5.111	2.261	14.1	15.	18.5	20.9
00300p	OXYGEN, DISSOLVED MG/L	09/04/73-12/05/94	10	9.35	9.57	11.4	8.3	1.222	1.106	8.31	8.7	10.675	11.38
00400p	PH (STANDARD UNITS)	09/04/73-12/05/94	10	6.7	6.77	7.1	6.6	0.031	0.177	6.6	6.6	6.925	7.09
00400p	CONVERTED PH (STANDARD UNITS)	09/04/73-12/05/94	10	6.7	6.741	7.1	6.6	0.032	0.179	6.6	6.6	6.925	7.09
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/73-12/05/94	10	0.2	0.182	0.251	0.079	0.004	0.063	0.081	0.119	0.251	0.251
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	9	5.	5.333	7.	3.	1.5	1.225	3.	5.	6.5	7.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	10	2.	2.05	4.	0.5	1.969	1.403	0.5	0.5	3.25	4.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/26/76-11/07/94	10	0.025	0.028	0.06	0.005	0.	0.017	0.006	0.018	0.035	0.059
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/26/76-11/07/94	10	0.15	0.19	0.6	0.05	0.027	0.165	0.05	0.088	0.225	0.57
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/26/76-11/07/94	10	0.16	0.145	0.21	0.03	0.003	0.058	0.033	0.12	0.183	0.208
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/26/76-11/07/94	10	0.035	0.033	0.06	0.005	0.	0.017	0.006	0.018	0.043	0.059
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/24/83-12/05/94	10	5.5	5.	7.	2.	2.444	1.563	2.1	3.75	6.	6.9
01105	ALUMINUM, TOTAL (UG/L AS AL)	02/24/83-11/07/94	10 ##	25.	42.4	97.	25.	819.6	28.629	25.	25.	74.5	95.2
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	12 ##	0.5	0.917	5.	0.5	1.674	1.294	0.5	0.5	0.5	3.8
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	12 ##	-0.301	-0.193	0.699	-0.301	0.086	0.294	-0.301	-0.301	-0.301	0.489
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			0.642								

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Annual Analysis for 1994 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/73-12/05/94	11	12.	11.727	18.	1.	20.018	4.474	2.4	10.	15.	17.4
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/73-12/05/94	11 ##	0.5	0.636	1.4	0.5	0.097	0.311	0.5	0.5	0.5	1.34

** - 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

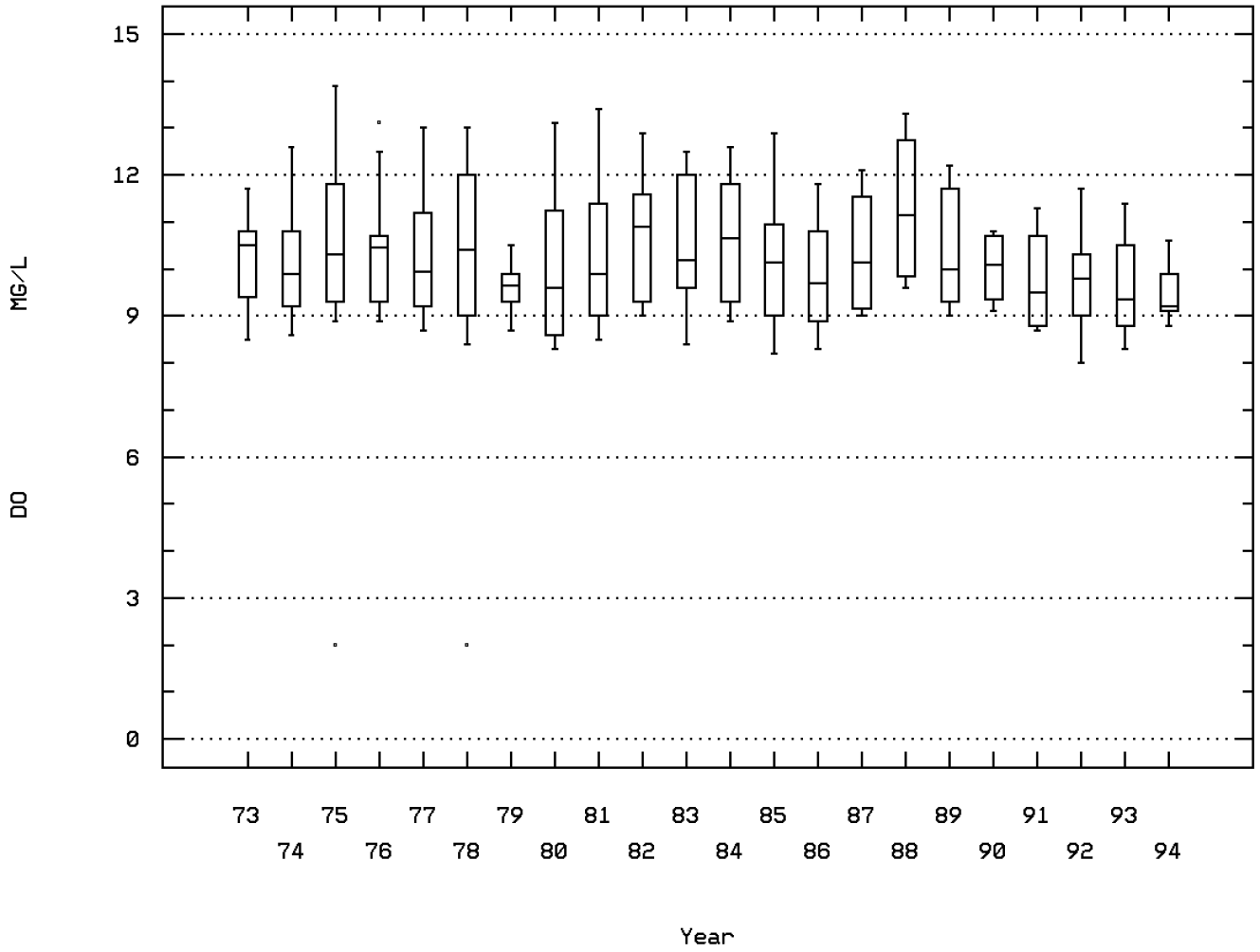
Annual Analysis for 1994 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	11	13.	13.545	19.	6.	10.273	3.205	7.2	13.	16.	18.4
00300p	OXYGEN, DISSOLVED MG/L	09/04/73-12/05/94	11	9.2	9.473	10.6	8.8	0.27	0.52	8.86	9.1	9.9	10.48
00400p	PH (STANDARD UNITS)	09/04/73-12/05/94	11	6.4	6.518	7.3	6.	0.226	0.475	6.	6.1	7.	7.3
00400p	CONVERTED PH (STANDARD UNITS)	09/04/73-12/05/94	11	6.4	6.342	7.3	6.	0.26	0.51	6.	6.1	7.	7.3
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/73-12/05/94	11	0.398	0.455	1.	0.05	0.119	0.346	0.05	0.1	0.794	1.
00403	PH, LAB, STANDARD UNITS SU	11/28/79-12/05/94	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-12/05/94	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-12/05/94	1	0.158	0.158	0.158	0.158	0.	0.	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	11	1.	1.455	4.	0.5	1.173	1.083	0.5	0.5	2.	3.6
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/26/76-11/07/94	10	0.03	0.032	0.08	0.005	0.001	0.023	0.005	0.009	0.043	0.077
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/26/76-11/07/94	10	0.15	0.145	0.2	0.05	0.004	0.06	0.055	0.1	0.2	0.2
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/26/76-11/07/94	10	0.135	0.12	0.22	0.01	0.005	0.073	0.01	0.055	0.173	0.219
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	05/26/76-11/07/94	10	0.01	0.017	0.05	0.005	0.	0.014	0.005	0.009	0.023	0.048
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/24/83-12/05/94	11	6.	6.091	8.	5.	0.691	0.831	5.	6.	6.	7.8
01105	ALUMINUM, TOTAL (UG/L AS AL)	02/24/83-11/07/94	10 ##	25.	40.6	110.	25.	836.933	28.93	25.	25.	55.25	106.1
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	13 ##	0.5	0.962	4.	0.5	1.311	1.145	0.5	0.5	0.5	3.6
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	13 ##	-0.301	-0.172	0.602	-0.301	0.1	0.317	-0.301	-0.301	-0.301	0.552
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			0.673								

** - Less 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: GRSM0185 Parameter Code: 00300

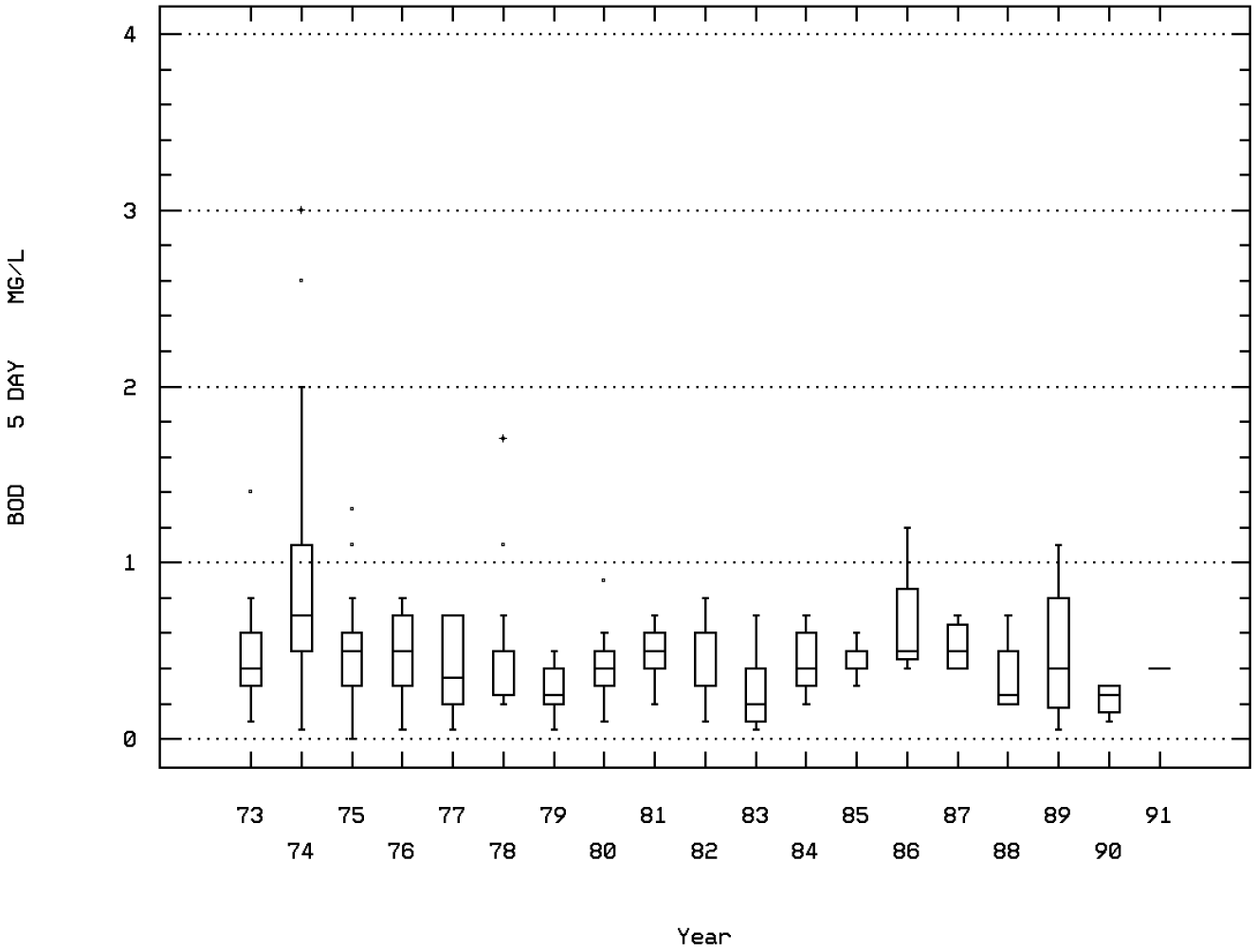
OXYGEN, DISSOLVED



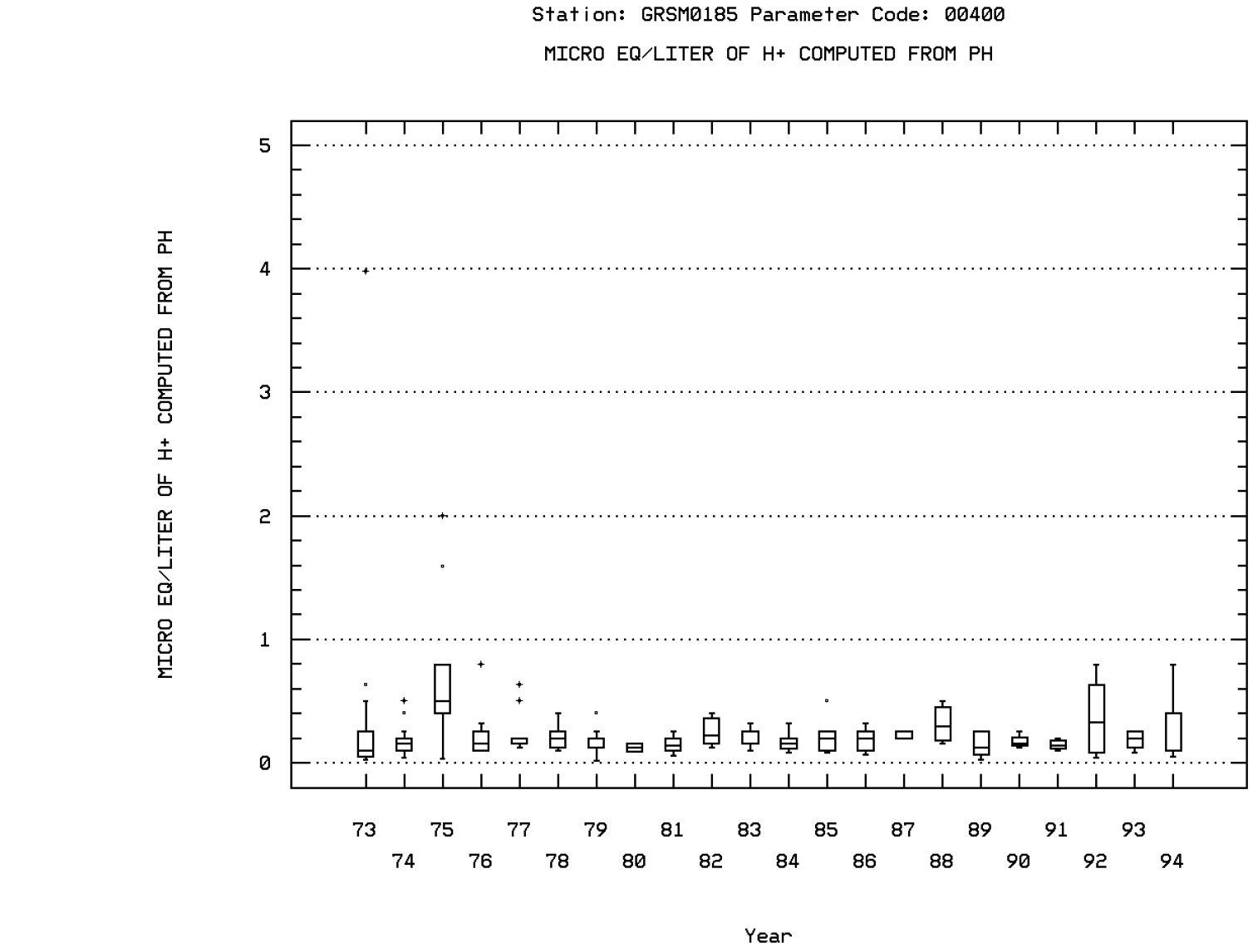
CATALOOCHEE CREEK NEAR CATALOOCHEE NC

Station: GRSM0185 Parameter Code: 00310

BOD, 5 DAY, 20 DEG C



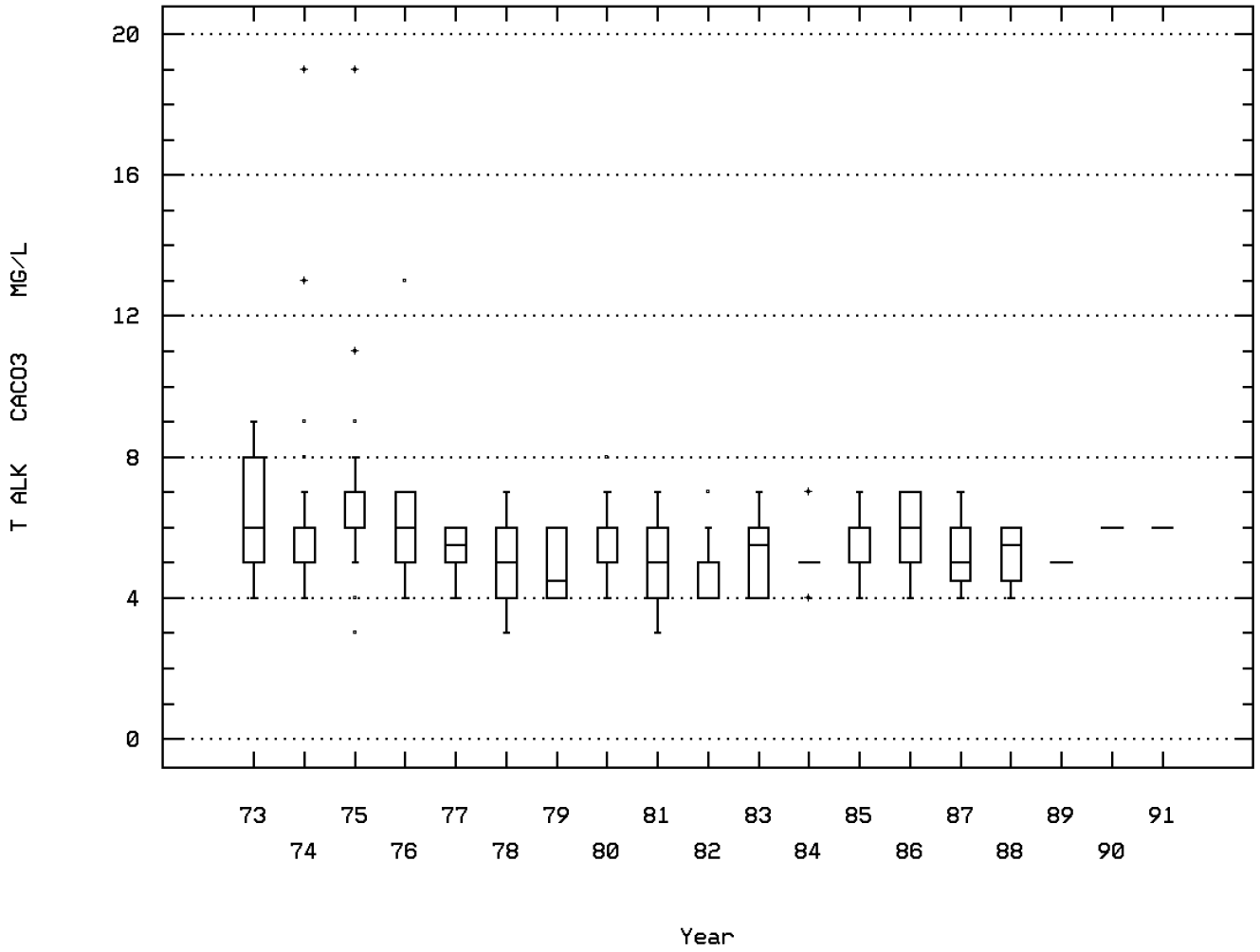
CATALOOCHEE CREEK NEAR CATALOOCHEE NC



CATALOOCHEE CREEK NEAR CATALOOCHEE NC

Station: GRSM0185 Parameter Code: 00410

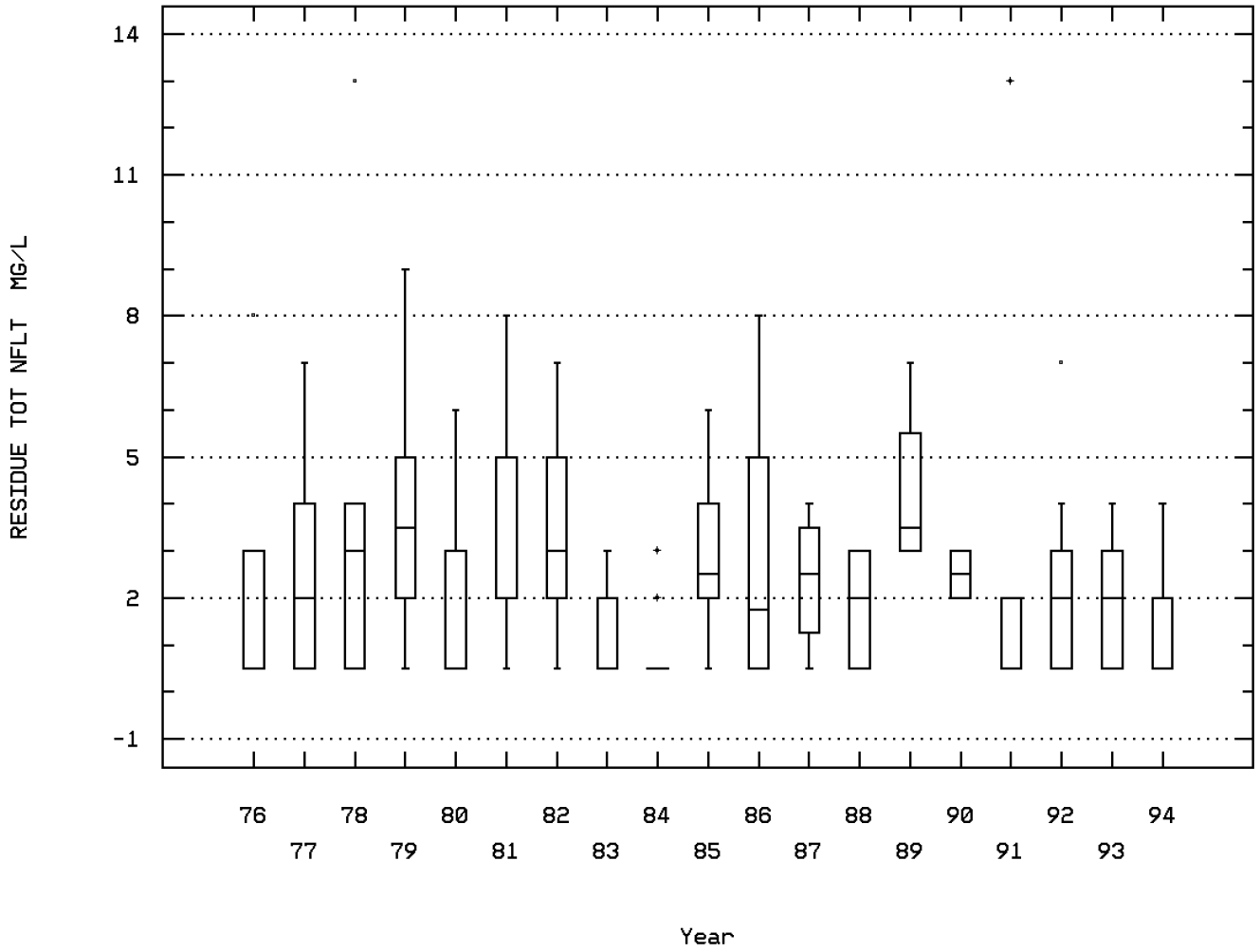
ALKALINITY, TOTAL (MG/L AS CACO3)



CATALOOCHEE CREEK NEAR CATALOOCHEE NC

Station: GRSM0185 Parameter Code: 00530

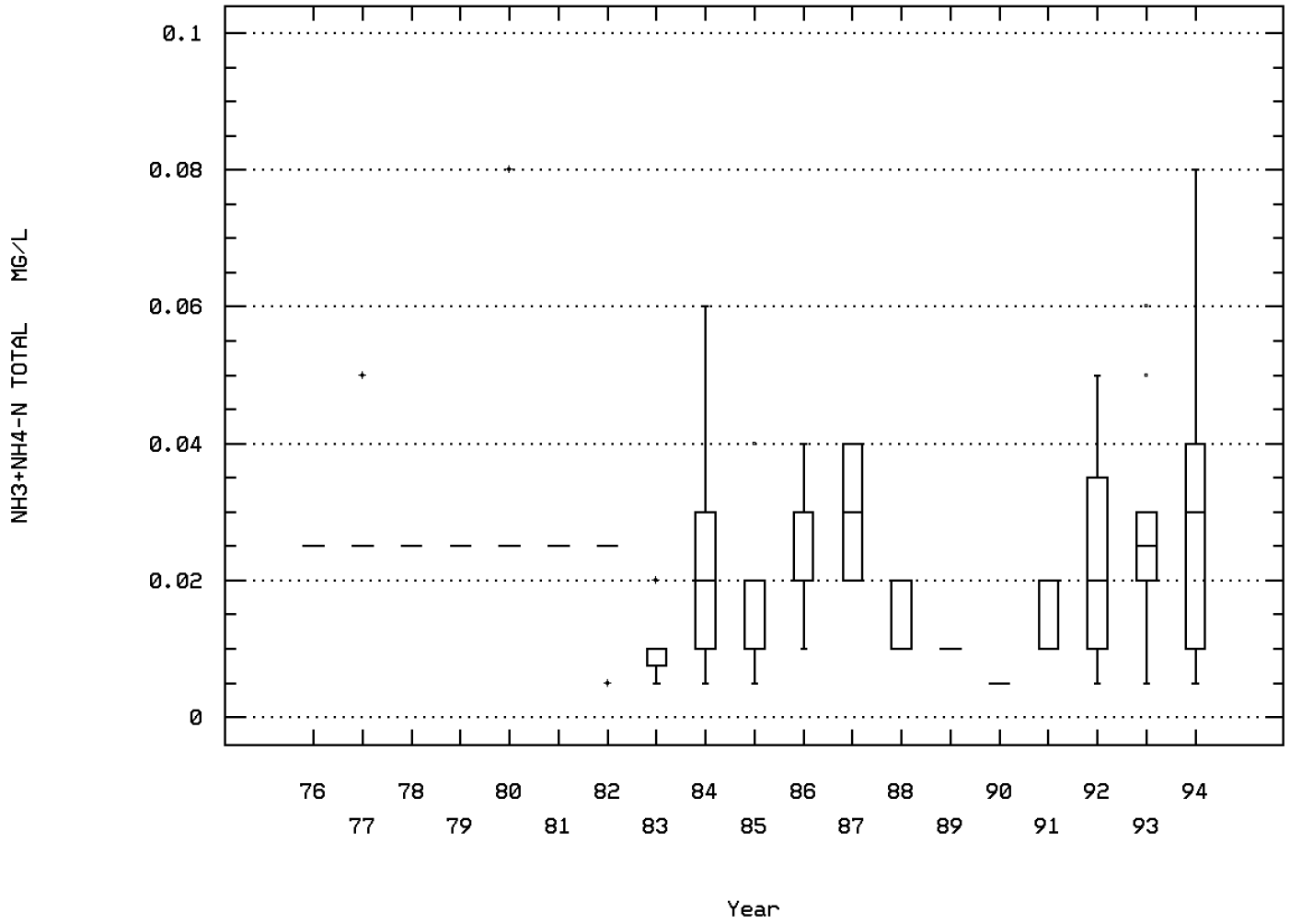
RESIDUE, TOTAL NONFILTRABLE (MG/L)



CATALOOCHEE CREEK NEAR CATALOOCHEE NC

Station: GRSM0185 Parameter Code: 00610

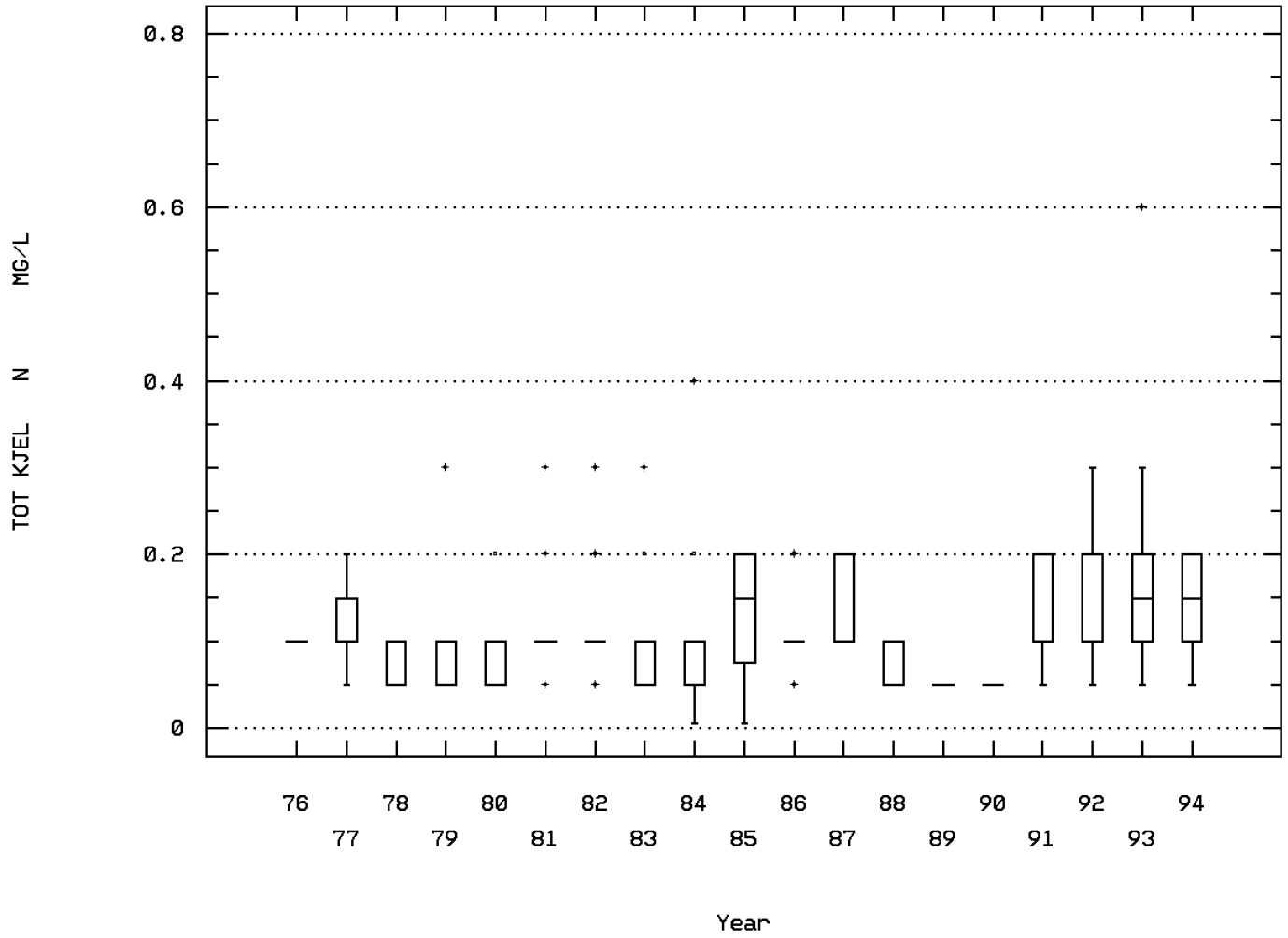
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



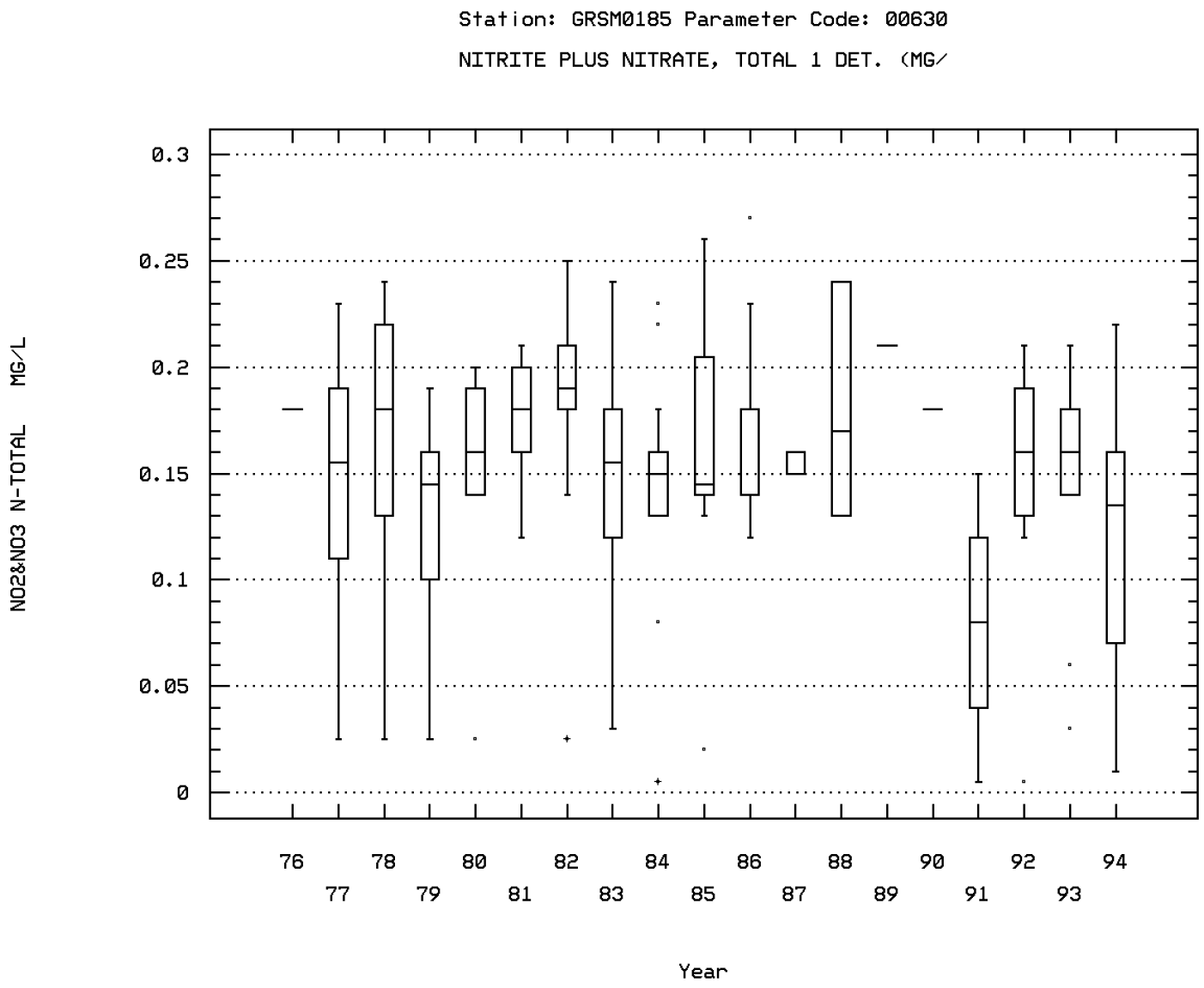
CATALOOCHEE CREEK NEAR CATALOOCHEE NC

Station: GRSM0185 Parameter Code: 00625

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



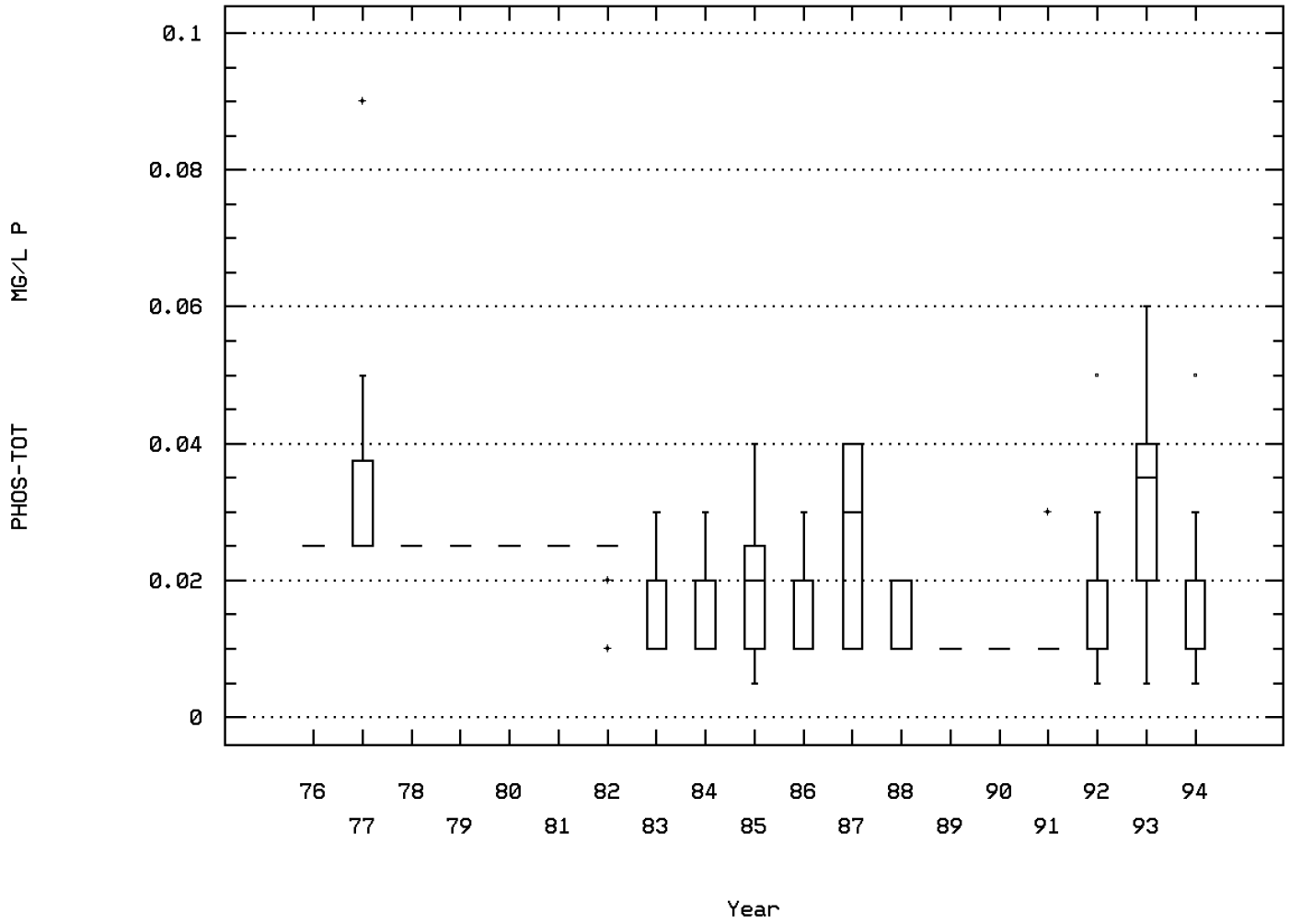
CATALOOCHEE CREEK NEAR CATALOOCHEE NC



CATALOOCHEE CREEK NEAR CATALOOCHEE NC

Station: GRSM0185 Parameter Code: 00665

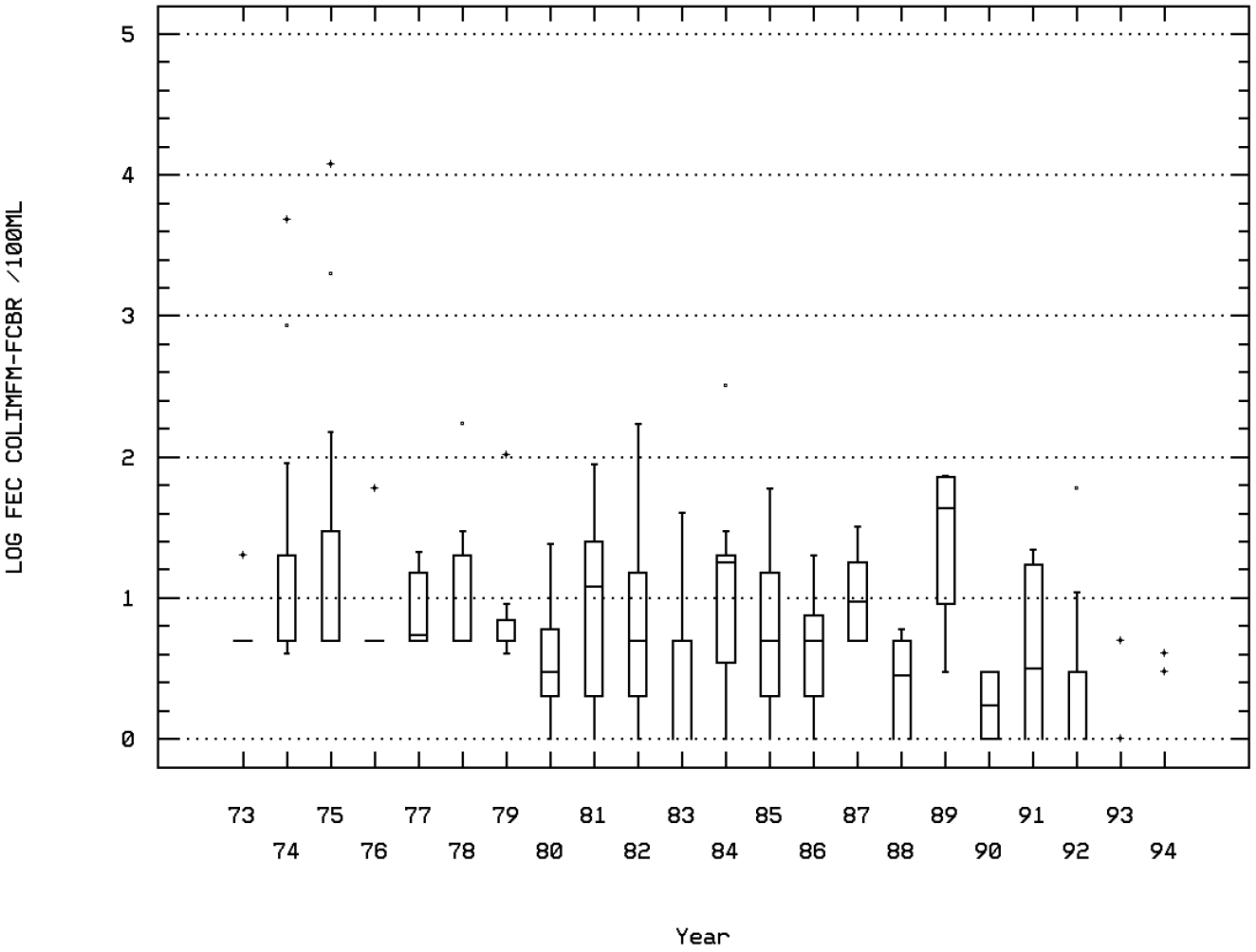
PHOSPHORUS, TOTAL (MG/L AS P)



CATALOOCHEE CREEK NEAR CATALOOCHEE NC

Station: GRSM0185 Parameter Code: 31616

LOG FECAL COLIFORM,MEMBR FILTER,M-FC BR



CATALOOCHEE CREEK NEAR CATALOOCHEE NC

Seasonal Analysis for Season #1: 10/01 to 3/31 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	02/07/83-12/05/94	27	75.	59.63	75.	15.	590.242	24.295	20.	30.	75.	75.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/73-12/05/94	140	6.5	6.889	17.	0.	13.839	3.72	2.55	4.	9.375	12.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/75-09/07/93	93	89.	108.366	340.	26.	4917.191	70.123	33.4	51.	150.5	216.
00064	DEPTH OF STREAM, MEAN (FT)	02/07/83-12/05/94	28	1.	1.139	2.	1.	0.066	0.257	1.	1.	1.2	1.5
00065	STAGE, STREAM (FEET)	01/24/74-09/07/93	126	2.62	2.955	40.26	2.08	11.393	3.375	2.157	2.328	2.9	3.196
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/73-12/05/94	88 ##	0.5	1.6	35.	0.	14.945	3.866	0.5	0.5	1.65	3.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	52	16.	17.538	29.	7.	26.646	5.162	13.	14.	21.	25.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/29/74-12/14/89	41	16.	18.366	48.	3.	98.588	9.929	6.2	10.5	24.5	29.8
00300	OXYGEN, DISSOLVED MG/L	09/04/73-12/05/94	131	11.	11.042	13.9	2.	1.965	1.402	9.6	10.1	12.	12.88
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/04/73-09/19/85	63	92.	92.317	115.	71.	48.722	6.98	85.4	89.	95.	101.
00310	BOD, 5 DAY, 20 DEG C MG/L	09/04/73-06/26/91	109	0.4	0.476	3.	0.	0.175	0.418	0.1	0.2	0.6	1.
00335	COD, .025N K2CR2O7 MG/L	09/04/73-12/11/84	31 ##	5.	6.968	30.	2.5	36.449	6.037	2.5	2.5	12.5	12.5
00340	COD, .25N K2CR2O7 MG/L	01/24/74-04/23/81	65 ##	12.5	9.908	34.	5.	36.335	6.028	5.	5.	12.5	12.5
00400	PH (STANDARD UNITS)	09/04/73-12/05/94	122	6.7	6.699	7.7	5.7	0.16	0.4	6.13	6.4	6.9	7.3
00400	CONVERTED PH (STANDARD UNITS)	09/04/73-12/05/94	122	6.7	6.531	7.7	5.7	0.188	0.434	6.13	6.4	6.9	7.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/73-12/05/94	122	0.2	0.295	1.995	0.02	0.081	0.284	0.05	0.126	0.398	0.745
00403	PH, LAB, STANDARD UNITS SU	11/28/79-12/05/94	49	6.7	6.661	7.	6.3	0.019	0.137	6.5	6.6	6.7	6.8
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-12/05/94	49	6.7	6.64	7.	6.3	0.019	0.138	6.5	6.6	6.7	6.8
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-12/05/94	49	0.2	0.229	0.501	0.1	0.006	0.076	0.158	0.2	0.251	0.316
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/04/73-06/26/91	110	5.	5.682	19.	3.	6.751	2.598	4.	4.	7.	8.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/04/73-08/20/80	51	0.	0.098	5.	0.	0.49	0.7	0.	0.	0.	0.
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	50	4.	4.7	9.	2.	2.908	1.705	3.	4.	6.	7.
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	70	24.5	25.486	80.	5.	131.5	11.467	15.	18.	32.	37.8
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	87	1.	1.598	7.	0.5	2.296	1.515	0.5	0.5	2.	3.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/26/76-11/07/94	74 ##	0.025	0.02	0.06	0.005	0.	0.011	0.005	0.01	0.025	0.03
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/26/76-11/07/94	74	0.1	0.11	0.4	0.005	0.006	0.078	0.05	0.05	0.2	0.2
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/26/76-11/07/94	74	0.16	0.148	0.27	0.005	0.006	0.079	0.023	0.103	0.21	0.24
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/26/76-11/07/94	73	0.02	0.019	0.05	0.005	0.	0.009	0.01	0.01	0.025	0.025
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/24/83-12/05/94	41	5.	4.976	12.	2.	3.574	1.891	3.	4.	6.	7.
00945	SULFATE, TOTAL (MG/L AS SO4)	02/24/83-12/19/90	29 ##	2.5	2.586	5.	2.5	0.216	0.464	2.5	2.5	2.5	2.5
01002	ARSENIC, TOTAL (UG/L AS AS)	05/26/76-11/07/94	44 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01027	CADMIUM, TOTAL (UG/L AS CD)	05/26/76-11/07/94	47 ##	1.	8.298	25.	1.	97.04	9.851	1.	1.	10.	25.
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/26/76-11/07/94	47 ##	12.5	16.862	25.	2.5	46.051	6.786	12.5	12.5	25.	25.
01037	COBALT, TOTAL (UG/L AS CO)	05/26/76-05/26/87	9 ##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01042	COPPER, TOTAL (UG/L AS CU)	05/26/76-11/07/94	47 ##	5.	10.553	130.	1.	406.992	20.174	1.	1.	10.	20.
01045	IRON, TOTAL (UG/L AS FE)	05/26/76-11/07/94	27 ##	25.	526.37	13000.	25.	6216155.242	2493.222	25.	25.	50.	126.
01051	LEAD, TOTAL (UG/L AS PB)	05/26/76-11/07/94	47 ##	5.	23.936	50.	5.	460.8	21.466	5.	5.	50.	50.
01055	MANGANESE, TOTAL (UG/L AS MN)	05/26/76-10/25/93	17 ##	25.	28.294	220.	5.	2521.814	50.218	5.	5.	25.	64.
01067	NICKEL, TOTAL (UG/L AS NI)	05/26/76-11/07/94	39 ##	5.	20.128	50.	5.	371.694	19.279	5.	5.	50.	50.
01092	ZINC, TOTAL (UG/L AS ZN)	05/26/76-11/07/94	47 ##	5.	44.723	1400.	1.	41563.987	203.872	5.	5.	25.	25.
01105	ALUMINUM, TOTAL (UG/L AS AL)	02/24/83-11/07/94	42 ##	50.	59.476	210.	25.	2719.816	52.152	25.	25.	53.5	170.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	161 ##	5.	37.401	4800.	0.5	142871.256	377.983	0.5	1.	5.	20.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	161 ##	0.699	0.543	3.681	-0.301	0.371	0.609	-0.301	0.	0.699	1.301
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			3.491								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/10/79-11/29/94	28	365.	502.357	2000.	0.5	265620.664	515.384	2.75	13.75	805.	1210.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/10/79-11/29/94	28	2.56	2.095	3.301	-0.301	1.176	1.085	0.399	1.136	2.906	3.083
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			124.585								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/09/77-09/25/91	50 ##	0.01	0.016	0.05	0.005	0.	0.011	0.005	0.005	0.025	0.025
71900	MERCURY, TOTAL (UG/L AS HG)	05/26/76-11/07/94	45 ##	0.1	0.141	0.6	0.1	0.009	0.092	0.1	0.1	0.1	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

Seasonal Analysis for Season #2: 4/01 to 9/30 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	02/07/83-12/05/94	27	75.	60.	75.	20.	559.615	23.656	20.	30.	75.	75.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/73-12/05/94	158	15.	14.472	20.	6.	10.052	3.17	9.95	13.	17.	18.

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

Seasonal Analysis for Season #2: 4/01 to 9/30 - Station GRSM0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/75-09/07/93	90	63.	96.811	1550.	24.	28044.335	167.464	33.1	44.	93.5	154.6
00064	DEPTH OF STREAM, MEAN (FT)	02/07/83-12/05/94	27	1.	1.185	3.	0.5	0.272	0.522	1.	1.	1.	2.1
00065	STAGE, STREAM (FEET)	01/24/74-09/07/93	143	2.39	2.485	5.29	0.43	0.188	0.433	2.144	2.25	2.63	2.89
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/73-12/05/94	115	1.3	2.388	68.	0.05	42.101	6.489	0.5	0.5	2.4	3.74
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	59	19.	19.271	38.	6.	33.891	5.822	12.	15.	23.	26.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/29/74-12/14/89	61	20.	20.164	35.	6.	42.339	6.507	11.2	15.	25.	30.
00300	OXYGEN, DISSOLVED MG/L	09/04/73-12/05/94	147	9.3	9.456	12.9	2.	1.152	1.073	8.6	8.9	9.9	10.7
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/04/73-09/19/85	86	92.	92.556	104.	81.1	18.426	4.292	87.	90.	96.	97.3
00310	BOD, 5 DAY, 20 DEG C MG/L	09/04/73-06/26/91	122	0.5	0.578	2.6	0.05	0.123	0.351	0.2	0.4	0.7	1.
00335	COD, .025N K2CR2O7 MG/L	09/04/73-12/11/84	27 ##	5.	5.167	12.5	2.5	11.423	3.38	2.5	2.5	5.	12.5
00340	COD, .25N K2CR2O7 MG/L	01/24/74-04/23/81	71 ##	12.5	9.768	46.	0.	36.092	6.008	5.	5.	12.5	12.5
00400	PH (STANDARD UNITS)	09/04/73-12/05/94	142	6.8	6.694	7.4	5.4	0.109	0.331	6.2	6.5	6.9	7.
00400	CONVERTED PH (STANDARD UNITS)	09/04/73-12/05/94	142	6.8	6.539	7.4	5.4	0.134	0.366	6.2	6.5	6.9	7.
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/73-12/05/94	142	0.158	0.289	3.981	0.04	0.153	0.391	0.1	0.126	0.316	0.631
00403	PH, LAB, STANDARD UNITS SU	11/28/79-12/05/94	50	6.8	6.752	7.	6.5	0.014	0.116	6.6	6.7	6.8	6.9
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-12/05/94	50	6.8	6.737	7.	6.5	0.014	0.118	6.6	6.7	6.8	6.9
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-12/05/94	50	0.158	0.183	0.316	0.1	0.003	0.05	0.126	0.158	0.2	0.251
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/04/73-06/26/91	124	6.	5.863	9.	1.	1.306	1.143	5.	5.	6.	7.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/04/73-08/20/80	49	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	56	5.	5.554	9.	2.	2.179	1.476	4.	5.	7.	7.3
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	74	30.5	29.568	49.	10.	70.879	8.419	17.5	23.75	36.	40.5
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	94	2.5	3.059	13.	0.5	6.306	2.511	0.5	1.	4.	6.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/26/76-11/07/94	80	0.025	0.025	0.08	0.005	0.	0.014	0.01	0.02	0.03	0.04
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/26/76-11/07/94	80	0.1	0.128	0.6	0.05	0.007	0.086	0.05	0.1	0.2	0.2
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/26/76-11/07/94	80	0.16	0.156	0.22	0.07	0.001	0.032	0.12	0.14	0.18	0.2
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/26/76-11/07/94	80	0.025	0.024	0.09	0.005	0.	0.012	0.01	0.02	0.025	0.039
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/24/83-12/05/94	44	5.	4.545	8.	2.	2.347	1.532	2.	3.25	6.	6.
00945	SULFATE, TOTAL (MG/L AS SO4)	02/24/83-12/19/90	27 ##	2.5	2.852	12.	2.5	3.343	1.828	2.5	2.5	2.5	2.5
01002	ARSENIC, TOTAL (UG/L AS AS)	05/26/76-11/07/94	47 ##	5.	5.426	25.	5.	8.511	2.917	5.	5.	5.	5.
01027	CADMIUM, TOTAL (UG/L AS CD)	05/26/76-11/07/94	49 ##	1.	8.	25.	1.	95.125	9.753	1.	1.	10.	25.
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/26/76-11/07/94	49 ##	12.5	17.092	25.	12.5	37.07	6.088	12.5	12.5	25.	25.
01037	COBALT, TOTAL (UG/L AS CO)	05/26/76-05/26/87	11 ##	50.	47.727	50.	25.	56.818	7.538	30.	50.	50.	50.
01042	COPPER, TOTAL (UG/L AS CU)	05/26/76-11/07/94	50 ##	5.	61.26	2700.	1.	145055.38	380.861	1.	1.	12.5	20.
01045	IRON, TOTAL (UG/L AS FE)	05/26/76-11/07/94	30 ##	50.	59.467	200.	25.	1641.085	40.51	25.	25.	80.25	118.
01051	LEAD, TOTAL (UG/L AS PB)	05/26/76-11/07/94	50 ##	5.	23.98	50.	5.	454.265	21.313	5.	5.	50.	50.
01055	MANGANESE, TOTAL (UG/L AS MN)	05/26/76-10/25/93	18 ##	18.75	15.417	25.	5.	100.184	10.009	5.	5.	25.	25.
01067	NICKEL, TOTAL (UG/L AS NI)	05/26/76-11/07/94	43 ##	5.	26.372	300.	5.	2193.811	46.838	5.	5.	50.	50.
01092	ZINC, TOTAL (UG/L AS ZN)	05/26/76-11/07/94	50 ##	5.	167.02	7800.	5.	1213387.489	1101.539	5.	5.	21.25	25.
01105	ALUMINUM, TOTAL (UG/L AS AL)	02/24/83-11/07/94	48	52.	80.833	270.	25.	3671.504	60.593	25.	31.25	100.	200.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	184	8.5	97.986	12000.	0.5	804496.807	896.937	1.	5.	20.	40.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	184	0.929	0.928	4.079	-0.301	0.419	0.648	0.	0.699	1.301	1.602
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			8.478								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/10/79-11/29/94	29	1300.	2868.517	23001.	14.	23181130.544	4814.679	34.	140.	3600.	8500.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/10/79-11/29/94	29	3.114	2.867	4.362	1.146	0.762	0.873	1.531	2.128	3.556	3.929
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			736.27								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/09/77-09/25/91	56 ##	0.02	0.017	0.025	0.005	0.	0.009	0.005	0.01	0.025	0.025
71900	MERCURY, TOTAL (UG/L AS HG)	05/26/76-11/07/94	47 ##	0.1	0.131	0.25	0.1	0.004	0.06	0.1	0.1	0.1	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

Station Inventory for Station: GRSM0186

NPS Station ID: GRSM0186
LAT/LON: 35.667226/ -83.073059
Agency: 112WRD
Date Created: 01/25/77
Location: COMPUTED VALUES CATALOOCHEE CR N
FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03460001
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010106012
RF1 Mile Point: 3.180
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010106002302.41
RF3 Mile Point: 2.41
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0186

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/23/76-04/23/76	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/23/76-04/23/76	1	285.	285.	285.	285.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/23/76-04/23/76	1	200.	200.	200.	200.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/23/76-04/23/76	1	9.9	9.9	9.9	9.9	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	04/23/76-04/23/76	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/23/76-04/23/76	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/23/76-04/23/76	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	04/23/76-04/23/76	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/23/76-04/23/76	1	115.	115.	115.	115.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	04/23/76-04/23/76	1	140.	140.	140.	140.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	04/23/76-04/23/76	1	0.27	0.27	0.27	0.27	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/23/76-04/23/76	1	130.	130.	130.	130.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	04/23/76-04/23/76	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/23/76-04/23/76	1	43.	43.	43.	43.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/23/76-04/23/76	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	04/23/76-04/23/76	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	04/23/76-04/23/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	04/23/76-04/23/76	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/23/76-04/23/76	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/23/76-04/23/76	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/23/76-04/23/76	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/23/76-04/23/76	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	04/23/76-04/23/76	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/23/76-04/23/76	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/23/76-04/23/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/23/76-04/23/76	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	04/23/76-04/23/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	04/23/76-04/23/76	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	04/23/76-04/23/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/23/76-04/23/76	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	04/23/76-04/23/76	1	210.	210.	210.	210.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/23/76-04/23/76	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/23/76-04/23/76	1	130.	130.	130.	130.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	04/23/76-04/23/76	1	100.	100.	100.	100.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	04/23/76-04/23/76	1	0.18	0.18	0.18	0.18	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	04/23/76-04/23/76	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	04/23/76-04/23/76	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0186

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	1	0	0.00				1	0	0.00						
00400	PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00				1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	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						
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00				1	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0187

NPS Station ID: GRSM0187
LAT/LON: 35.667226/ -83.073059
Agency: 11NATDC
Date Created: 06/22/85
Location: CATALOOCHEE CREEK NR CATALOOCHEE
FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): T0704340 /2139
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE R
Elevation: 0
Water Body Id:
Minor Basin: FRENCH BROAD R
ECO Region:
RF1 Index: 06010106012
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 06010106002500.38
RF3 Mile Point: 1.05
Distance from RF3: 0.10
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0187

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: GRSM0188

NPS Station ID: GRSM0188
LAT/LON: 35.667226/ -83.073059
Agency: 11BIOACC
Date Created: 05/09/92
Location: CATTALOOCHEE CREEK @ CATTALOOCHEE
FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/FISH/STREAM
STORET Station ID(s): 2139
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010106
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010201002800.00
RF3 Mile Point: 2.05
Distance from RF3: 0.10
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0188

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
30344	PENTACHLORODIBENZO-P-DIOXIN,12378,FISH,WET WT,PG/G	10/17/84-10/17/84	3 ##	0.75	0.893	1.375	0.555	0.184	0.428	**	**	**	**
30345	HEXACHLORODIBENZO-P-DIOXIN,123478,FISH,WET WT,PG/G	10/17/84-10/17/84	3 ##	0.7	0.83	1.345	0.445	0.215	0.464	**	**	**	**
30346	HEXACHLORODIBENZO-P-DIOXIN,123678,FISH,WET WT,PG/G	10/17/84-10/17/84	3 ##	0.89	1.035	1.345	0.87	0.072	0.269	**	**	**	**
30347	HEXACHLORODIBENZO-P-DIOXIN,123789,FISH,WET WT,PG/G	10/17/84-10/17/84	3 ##	0.52	0.77	1.345	0.445	0.249	0.499	**	**	**	**
30348	HEPTACHLORODIBENZO-P-DIOXIN,1234678,TIS,WETWT,PG/G	10/17/84-10/17/84	3	2.21	2.375	3.245	1.67	0.641	0.8	**	**	**	**
30349	TETRACHLORODIBENZOFURAN, 2378- , FISH,WET WT.,PG/G	10/17/84-10/17/84	3	0.75	0.648	0.9	0.295	0.099	0.315	**	**	**	**
30350	PENTACHLORODIBENZOFURAN,12378- , FISH,WET WT.,PG/G	10/17/84-10/17/84	3 ##	0.47	0.47	0.555	0.385	0.007	0.085	**	**	**	**
30351	PENTACHLORODIBENZOFURAN,23478- , FISH,WET WT.,PG/G	10/17/84-10/17/84	2 ##	0.543	0.543	0.7	0.385	0.05	0.223	**	**	**	**
30352	HEXACHLORODIBENZOFURAN,123478- , FISH,WET WT.,PG/G	10/17/84-10/17/84	3 ##	0.29	0.39	0.655	0.225	0.054	0.232	**	**	**	**
30353	HEXACHLORODIBENZOFURAN,123678- , FISH,WET WT.,PG/G	10/17/84-10/17/84	3 ##	0.29	0.39	0.655	0.225	0.054	0.232	**	**	**	**
30354	HEXACHLORODIBENZOFURAN,123789- , FISH,WET WT.,PG/G	10/17/84-10/17/84	3 ##	0.225	0.358	0.655	0.195	0.066	0.257	**	**	**	**
30355	HEXACHLORODIBENZOFURAN,234678- , FISH,WET WT.,PG/G	10/17/84-10/17/84	3 ##	0.29	0.39	0.655	0.225	0.054	0.232	**	**	**	**
30356	HEPTACHLORODIBENZOFURAN,1234678- ,FISH,WET WT,PG/G	10/17/84-10/17/84	3 ##	0.63	0.91	1.62	0.48	0.384	0.619	**	**	**	**
30357	HEPTACHLORODIBENZOFURAN,1234789- ,FISH,WET WT,PG/G	10/17/84-10/17/84	3 ##	0.455	0.797	1.62	0.315	0.513	0.716	**	**	**	**
34395	HEXACHLOROBUTADIENE WET WGTTISMG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34555	1,2,4-TRICHLOROBENZENE WET WGTTISMG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34685	ENDRIN WET WGTTISMG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34687	HEPTACHLOR WET WGTTISMG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34688	HEXACHLOROBENZENE WET WGTTISMG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34754	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN TISWETWTPG/G	10/17/84-10/17/84	3	1.87	1.547	2.26	0.51	0.844	0.919	**	**	**	**
38824	ISOPROPALIN TISWETWGTMG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39319	MONOCHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	10/17/84-10/17/84	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39335	DICHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39339	TRICHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39345	TETRACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39347	PENTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39354	HEPTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39355	OCTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39408	NONACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
39409	DECACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
46333	PENTACHLORONITROBENZENE (PCNB) IN TISSUE WET MG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**

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Parameter Inventory for Station: GRSM0188

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70977	INSTRUMENT RATIO, LAB/FIELD CONCENTRATIONS, NUMBER	10/17/84-10/17/84	3	2.34	1.687	2.72	0.	2.17	1.473	**	**	**	**
71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	10/17/84-10/17/84	2 ##	0.053	0.053	0.08	0.025	0.002	0.039	**	**	**	**
76530	BIPHENYL TISSUE ,WET WGT,MG/KG	10/17/84-10/17/84	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
78907	HEXACHLOROBIPHENYLS IN FISH TISSUE WET WGT. MG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
79026	1,2,3,4,-TETRACHLOROBENZENE IN FISH WET WGT MG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
81312	POLYCHLORINATEDBIPHENYLS FISH TISSUE WET WGT MG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
81652	TREFLAN IN FISH TISSUE WET WEIGHT MG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
81807	DURSBAN IN FISH TISSUE WET WEIGHT MG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
81823	PENTACHLOROANISOLE(PCA)INFISH TISSUE WET WGT MG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85675	TRICHLOROBENZENE,1,3,5- TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85676	TRICHLOROBENZENE,1,2,3- TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85677	TETRACHLOROBENZENE,1,2,4,5- TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85678	TETRACHLOROBENZENE,1,2,3,5- TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85679	PENTACHLOROBENZENE TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85680	DIPHENYL DISULFIDE TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85681	OCTACHLOROSTYRENE TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85682	NITROFEN TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85683	PERTHANE TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85684	DICOFOL (KELTHANE) TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**

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

Station Inventory for Station: GRSM0189

NPS Station ID: GRSM0189 LAT/LON: 35.669448/ -83.073616 Agency: 21NC01WQ Date Created: 01/25/79
Location: LITTLE CATALOOCHEE CK NR CATALOOCHEE INA-791024 FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): E6463000 /FRB049B
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 06010106 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: FRENCH BROAD ECO Region:
RF1 Index: 06010106012 RF1 Mile Point: 2.930 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010106001206.42 RF3 Mile Point: 6.42 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0189

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/11/79-04/11/79	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/11/79-04/11/79	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/11/79-04/11/79	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/11/79-04/11/79	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	04/11/79-10/24/79	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	04/11/79-10/24/79	3	6.8	6.9	7.1	6.8	0.03	0.173	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/11/79-10/24/79	3	6.8	6.879	7.1	6.8	0.031	0.175	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/11/79-10/24/79	3	0.158	0.132	0.158	0.079	0.002	0.046	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	07/10/79-10/24/79	2	24.	24.	24.	24.	0.	0.	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	07/10/79-10/24/79	2 ##	6.25	6.25	12.	0.5	66.125	8.132	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	07/10/79-10/24/79	2	18.	18.	24.	12.	72.	8.485	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/11/79-10/24/79	3	7.	7.667	14.	2.	36.333	6.028	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/10/79-10/24/79	2 ##	1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	07/10/79-10/24/79	2	9.5	9.5	14.	5.	40.5	6.364	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/28/78-10/24/79	3 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/28/78-10/24/79	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/28/78-10/24/79	3 ##	0.025	0.033	0.05	0.025	0.	0.014	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/28/78-04/11/79	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	11/28/78-11/28/78	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	11/28/78-11/28/78	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/28/78	1 ##	1.25	1.25	1.25	1.25	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/28/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	11/28/78-11/28/78	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	11/28/78-11/28/78	2 ##	27.5	27.5	50.	5.	1012.5	31.82	**	**	**	**
01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/28/78-11/28/78	1	9.5	9.5	9.5	9.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	11/28/78-11/28/78	1 ##	20.	20.	20.	20.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	11/28/78-11/28/78	2	15050.	15050.	30000.	100.	447005000.	21142.493	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	11/28/78-11/28/78	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	11/28/78-11/28/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	11/28/78-11/28/78	1	950.	950.	950.	950.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	11/28/78-11/28/78	2 ##	45.	45.	65.	25.	800.	28.284	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/11/79-10/24/79	3	5.	5.	7.	3.	4.	2.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/11/79-10/24/79	3	0.699	0.674	0.845	0.477	0.034	0.185	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			4.718								
39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**

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Parameter Inventory for Station: GRSM0189

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-11/28/78	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/28/78-11/28/78	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	250.	250.	250.	250.	0.	0.	**	**	**	**
39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39811	CHLORDANE,GAMMA,IN BOTTOM DEPOS(UG/KG DRY SOLIDS)	11/28/78-11/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/28/78-04/11/79	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	11/28/78-11/28/78	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	11/28/78-11/28/78	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRSM0189

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	1	0	0.00				1	0	0.00						
00400	PH	Other-Hi Lim.	9.	3	0	0.00	1	0	0.00	2	0	0.00						
		Other-Lo Lim.	6.5	3	0	0.00	1	0	0.00	2	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	3	0	0.00	2	0	0.00	1	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	0 &	0	0.00												
		Drinking Water	5.	0 &	0	0.00												
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	0 &	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	5.	0 &	0	0.00												
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00	2	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	3	0	0.00	1	0	0.00	2	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0190

NPS Station ID: GRSM0190
LAT/LON: 35.669726/ -83.676949
Agency: 12NSS
Date Created: 10/22/88
Location: LITTLE RIVER
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 2A07810L /2AS2A07810L
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010201
Depth of Water: 3
Aquifer:
Major Basin:
Elevation: 433
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010201
RF1 Mile Point: 0.000
Distance from RF1: 4.00
On/Off RF1:
RF3 Index: 06010107002900.90
RF3 Mile Point: 1.87
Distance from RF3: 0.21
On/Off RF3:
Description:
THESE DATA WERE COLLECTED DURING PHASE I OF THE NATIONAL STREAM SURVEY AS PART OF EPA'S NATIONAL SURFACE WATER SURVEY AND AQUATIC EFFECTS RESEARCH PROGRAM UNDER THE NATIONAL ACID PRECIPITATION ASSESSMENT PROGRAM. THE SURVEY DESIGN, METHODS, AND DATA LIMITAITONS ARE DESCRIBED IN:

Parameter Inventory for Station: GRSM0190

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/27/85-07/10/85	4	11.4	12.125	20.	5.7	43.422	6.59	**	**	**	**
00064	DEPTH OF STREAM, MEAN (FT)	03/27/85-07/10/85	4	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	03/27/85-07/10/85	4	15.	13.75	15.	10.	6.25	2.5	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/27/85-07/10/85	4	15.5	16.	18.	15.	2.	1.414	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/27/85-07/10/85	4	10.2	10.175	12.4	7.9	3.616	1.902	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/27/85-07/10/85	4	6.7	6.8	7.3	6.5	0.127	0.356	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/27/85-07/10/85	4	6.689	6.712	7.3	6.5	0.137	0.37	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/27/85-07/10/85	4	0.205	0.194	0.316	0.05	0.013	0.116	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	03/27/85-07/10/85	4	70.85	79.575	114.3	62.3	552.449	23.504	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	03/27/85-07/10/85	4	3.5	3.75	5.	3.	0.917	0.957	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/27/85-07/10/85	4	0.01	0.01	0.011	0.009	0.	0.001	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/27/85-07/10/85	4	0.7	0.7	0.9	0.5	0.027	0.163	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	03/27/85-07/10/85	4	1.05	1.05	1.4	0.7	0.097	0.311	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/27/85-07/10/85	4	1.35	1.375	1.6	1.2	0.029	0.171	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/27/85-07/10/85	4	0.35	0.35	0.4	0.3	0.003	0.058	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	03/27/85-07/10/85	4	0.805	0.835	0.96	0.77	0.008	0.087	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/27/85-07/10/85	4	0.49	0.488	0.53	0.44	0.002	0.044	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	03/27/85-07/10/85	4	0.45	0.45	0.5	0.4	0.003	0.058	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/27/85-07/10/85	4	1.65	1.675	1.8	1.6	0.009	0.096	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/27/85-07/10/85	4	0.025	0.025	0.03	0.02	0.	0.006	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/27/85-07/10/85	4	5.2	5.3	5.7	5.1	0.08	0.283	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/27/85-07/10/85	4	0.	1.	4.	0.	4.	2.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/27/85-07/10/85	4	49.5	65.	145.	16.	3094.	55.624	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/27/85-07/10/85	4	1.	0.975	1.1	0.8	0.023	0.15	**	**	**	**
71885	IRON (UG/L AS FE)	03/27/85-07/10/85	4	1.5	3.423	9.99	0.7	19.479	4.413	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/27/85-07/10/85	4	1420.	1420.	1420.	1420.	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/27/85-07/10/85	4	0.3	0.325	0.5	0.2	0.016	0.126	**	**	**	**
83509	STREAM, WIDTH METER	03/27/85-07/10/85	4	12.	12.	12.	12.	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: GRSM0190

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Fresh Acute	4.	4	0	0.00	1	0	0.00	3	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	4	0	0.00	1	0	0.00	3	0	0.00						
		Other-Lo Lim.	6.5	4	1	0.25	1	1	1.00	3	0	0.00						
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	4	4	1.00	1	1	1.00	3	3	1.00						
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	4	0	0.00	1	0	0.00	3	0	0.00						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	4	0	0.00	1	0	0.00	3	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	4	0	0.00	1	0	0.00	3	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	4	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: GRSM0191

NPS Station ID: GRSM0191
LAT/LON: 35.670837/ -83.797782
Agency: 12ELS1
Date Created: 04/16/88
Location: LAUREL LAKE
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 3A2-059
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010201
Depth of Water: 16
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010201
RF1 Mile Point: 0.000
Distance from RF1: 22.20
On/Off RF1:
RF3 Index: 06010201008202.17
RF3 Mile Point: 2.17
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0191

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/20/84-11/20/84	1	10.7	10.7	10.7	10.7	0.	0.	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	11/20/84-11/20/84	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	11/20/84-11/20/84	1	40.	40.	40.	40.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/20/84-11/20/84	1	196.	196.	196.	196.	0.	0.	**	**	**	**
00154	SULFATE (AS S) WHOLE WATER, MG/L	11/20/84-11/20/84	1	5.55	5.55	5.55	5.55	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/20/84-11/20/84	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/20/84-11/20/84	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/84-11/20/84	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	11/20/84-11/20/84	1	1863.6	1863.6	1863.6	1863.6	0.	0.	**	**	**	**
00662	PHOSPHORUS (P), WATER, TOTAL RECOVERABLE UG/L	11/20/84-11/20/84	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	11/20/84-11/20/84	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	11/20/84-11/20/84	1	22.6	22.6	22.6	22.6	0.	0.	**	**	**	**
00910	CALCIUM (MG/L AS CACO3)	11/20/84-11/20/84	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/20/84-11/20/84	1	4.3	4.3	4.3	4.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/20/84-11/20/84	1	1.37	1.37	1.37	1.37	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/20/84-11/20/84	1	1.24	1.24	1.24	1.24	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/20/84-11/20/84	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/20/84-11/20/84	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/20/84-11/20/84	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/20/84-11/20/84	1	210.	210.	210.	210.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	11/20/84-11/20/84	1	112.	112.	112.	112.	0.	0.	**	**	**	**
70151	SURFACE AREA OF LAKE OR RESERVOIR SQ KM	11/20/84-11/20/84	1	0.17	0.17	0.17	0.17	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/20/84-11/20/84	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
71885	IRON (UG/L AS FE)	11/20/84-11/20/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	11/20/84-11/20/84	1	1049.92	1049.92	1049.92	1049.92	0.	0.	**	**	**	**
82047	DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	11/20/84-11/20/84	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/20/84-11/20/84	1	11.5	11.5	11.5	11.5	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0191

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00154	SULFATE (AS S) WHOLE WATER	Drinking Water	400.	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: GRSM0191

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0192

NPS Station ID: GRSM0192 LAT/LON: 35.674171/ -83.526115 Agency: 21TNWQ Date Created: 09/11/82
Location: W PRONG LITTLE PIGEON R 21.9 QUAD 157NE FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): LPIGEONIS10
RMI-Indexes: 1021500 007720 00920 9300 1120 0220 Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 652.10 027.40 005.10 021.90
HUC: 06010107 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER Elevation: 0 Water Body Id:
Minor Basin: FRENCH BROAD RIVER ECO Region:
RF1 Index: 06010107015 RF1 Mile Point: 4.300 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010107002006.88 RF3 Mile Point: 7.88 Distance from RF3: 0.02 On/Off RF3:
Description:
100 YDS U/S OF GATLINBURG WWTP WQ LIB INDEX NO. AW0.03

Parameter Inventory for Station: GRSM0192

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/15/81-07/23/81	5	16.	15.26	21.8	6.5	32.288	5.682	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/15/81-07/23/81	5	9.3	9.38	10.7	8.3	0.777	0.881	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	04/15/81-07/23/81	5	1.	1.	1.	1.	0.	0.	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	04/15/81-07/23/81	5	5.	5.	5.	5.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/15/81-07/23/81	5	6.7	6.7	7.3	6.1	0.185	0.43	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/15/81-07/23/81	5	6.7	6.537	7.3	6.1	0.218	0.467	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/15/81-07/23/81	5	0.2	0.291	0.794	0.05	0.085	0.291	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/15/81-07/23/81	5	0.05	0.086	0.23	0.02	0.007	0.084	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/15/81-07/23/81	5	0.56	0.51	0.74	0.18	0.045	0.212	**	**	**	**
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	04/15/81-07/23/81	5	0.7	0.56	0.9	0.2	0.088	0.297	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/15/81-07/23/81	5	0.02	0.032	0.06	0.01	0.	0.022	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/23/81-07/23/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/23/81-07/23/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/23/81-07/23/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	07/23/81-07/23/81	1	70.	70.	70.	70.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	07/23/81-07/23/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/23/81-07/23/81	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/23/81-07/23/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/23/81-07/23/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
32106	CHLOROFORM,WHOLE WATER,UG/L	05/06/81-05/06/81	1	2.2	2.2	2.2	2.2	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: GRSM0192

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	5	0	0.00				5	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	5	0	0.00				5	0	0.00						
		Other-Lo Lim.	6.5	5	1	0.20				5	1	0.20						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	5	0	0.00				5	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						

& - 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: GRSM0192

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
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	5.	1	1	1.00				1	1	1.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00				1	0	0.00						
32106	CHLOROFORM, WHOLE WATER	Fresh Acute	28900.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0193

NPS Station ID: GRSM0193
LAT/LON: 35.675281/ -83.033892
Agency: 131TVAC
Date Created: 04/09/83
Location: AT WHITE OAK CREEK
FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370078
RMI-Indexes: 1021500 007720 00920 9300 2520
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 652.10 073.80 040.00
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin: FRENCH BROAD RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: PIGEON RIVER 40.0
ECO Region:
RF1 Index: 06010106013
RF1 Mile Point: 1.760
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010106001301.62
RF3 Mile Point: 1.64
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0193

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/11/83-08/31/83	22	22.05	21.545	25.6	15.8	13.553	3.681	17.02	17.85	25.15	25.3
00080	COLOR (PLATINUM-COBALT UNITS)	05/11/83-08/31/83	6	120.	119.167	180.	55.	4444.167	66.665	**	**	**	**
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	05/11/83-08/31/83	6	130.	128.333	180.	70.	3216.667	56.716	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/11/83-08/31/83	22	606.5	642.273	1072.	250.	157252.494	396.551	253.	254.75	1033.25	1064.5
00300	OXYGEN, DISSOLVED MG/L	05/11/83-08/31/83	22	5.8	4.895	7.8	0.5	8.269	2.876	0.56	2.4	7.525	7.8
00303	BOD, 1DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	0.3	0.367	0.9	0.	0.115	0.339	**	**	**	**
00304	BOD, 2 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	0.75	0.767	1.2	0.3	0.107	0.327	**	**	**	**
00305	BOD, 3 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	1.4	1.433	1.9	0.9	0.119	0.344	**	**	**	**
00306	BOD, 4 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	1.75	1.717	2.	1.4	0.054	0.232	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	1.95	1.933	2.2	1.6	0.047	0.216	**	**	**	**
00312	BOD, 6 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	2.2	2.15	2.4	1.8	0.051	0.226	**	**	**	**
00315	BOD, 7 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	2.4	2.483	2.8	2.3	0.05	0.223	**	**	**	**
00316	BOD, 8 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	2.9	2.883	3.	2.7	0.018	0.133	**	**	**	**
00317	BOD, 9 DAY, 20 DEG C MG/L	08/31/83-08/31/83	3	3.1	3.067	3.3	2.8	0.063	0.252	**	**	**	**
00322	BOD, 10 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	3.4	3.4	3.6	3.1	0.036	0.19	**	**	**	**
00323	BOD, 15 DAY, 20 DEG C MG/L	08/31/83-08/31/83	3	4.3	4.333	4.5	4.2	0.023	0.153	**	**	**	**
00324	BOD, 20 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	5.3	5.517	6.4	4.8	0.458	0.677	**	**	**	**
00327	BOD, 11DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	3.65	3.667	3.8	3.5	0.015	0.121	**	**	**	**
00329	BOD, 13 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	4.2	4.15	4.5	3.6	0.107	0.327	**	**	**	**
00333	BOD, 18 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	5.05	5.183	5.9	4.6	0.27	0.519	**	**	**	**
00336	BOD, 22 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	5.8	5.85	6.5	5.1	0.287	0.536	**	**	**	**
00345	BOD, 25 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	6.7	7.183	11.1	5.3	4.07	2.017	**	**	**	**
00347	BOD, 27 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	6.95	7.467	11.3	5.8	3.819	1.954	**	**	**	**
00348	BOD, 29 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	7.15	7.733	11.8	6.3	4.159	2.039	**	**	**	**
00353	BOD, 42 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	4.8	6.733	14.	4.2	14.575	3.818	**	**	**	**
00356	BOD, 63 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	9.15	10.133	15.5	8.8	6.967	2.639	**	**	**	**
00357	BOD, 70 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	9.2	10.267	15.7	9.	7.119	2.668	**	**	**	**
00358	BOD, 77 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	9.35	10.45	16.1	9.	7.779	2.789	**	**	**	**
00361	BOD, 98 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	10.1	11.133	17.2	9.3	9.255	3.042	**	**	**	**
00363	BOD, 50 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	8.6	9.583	14.9	8.2	6.818	2.611	**	**	**	**
00364	BOD, 100 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	10.15	11.167	17.3	9.3	9.439	3.072	**	**	**	**
00400	PH (STANDARD UNITS)	05/11/83-08/31/83	22	6.97	6.915	7.17	6.6	0.043	0.207	6.6	6.7	7.108	7.167
00400	CONVERTED PH (STANDARD UNITS)	05/11/83-08/31/83	22	6.97	6.866	7.17	6.6	0.045	0.213	6.6	6.7	7.107	7.167
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/11/83-08/31/83	22	0.107	0.136	0.251	0.068	0.005	0.068	0.068	0.078	0.2	0.251
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/11/83-08/31/83	6	385.	386.667	600.	170.	52946.667	230.101	**	**	**	**
81254	BOD, 32 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	7.15	7.933	12.3	6.7	4.683	2.164	**	**	**	**
81256	BOD, 34 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	7.35	8.167	12.6	6.9	4.815	2.194	**	**	**	**
81257	BOD, 36 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	7.65	8.433	12.9	7.2	4.879	2.209	**	**	**	**

** - Less 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: GRSM0193

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
81260	BOD, 39 DAY, 20 DEG C MG/L	05/11/83-05/11/83	3	7.9	7.867	8.2	7.5	0.123	0.351	**	**	**	**
81261	BOD, 41 DAY, 20 DEG C MG/L	05/11/83-05/11/83	3	7.9	7.933	8.2	7.7	0.063	0.252	**	**	**	**
81262	BOD, 43 DAY, 20 DEG C MG/L	05/11/83-05/11/83	3	8.3	8.2	8.4	7.9	0.07	0.265	**	**	**	**
81265	BOD, 46 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	8.3	9.2	14.2	7.9	6.036	2.457	**	**	**	**
81267	BOD, 48 DAY, 20 DEG C MG/L	05/11/83-05/11/83	3	8.4	8.267	8.4	8.	0.053	0.231	**	**	**	**
81270	BOD, 53 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	8.65	9.667	14.9	8.5	6.579	2.565	**	**	**	**
81272	BOD, 55 DAY, 20 DEG C MG/L	05/11/83-05/11/83	2	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
81273	BOD, 57 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	8.85	9.85	15.2	8.5	6.899	2.627	**	**	**	**
81276	BOD, 60 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	9.1	10.033	15.3	8.7	6.695	2.587	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRSM0193

				Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			--------------n/a--------------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	22	10	0.45				22	10	0.45						
00400	PH	Other-Hi Lim.	9.	22	0	0.00				22	0	0.00						
		Other-Lo Lim.	6.5	22	0	0.00				22	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: GRSM0194

NPS Station ID: GRSM0194
LAT/LON: 35.675837/ -83.088337
Agency: 12NSS
Date Created: 10/22/88
Location: CORRELL BRANCH
FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 2A07812L /2AS2A07812L
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 884
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010106
RF1 Mile Point: 0.000
Distance from RF1: 0.40
On/Off RF1:
RF3 Index: 06010106001300.27
RF3 Mile Point: 3.87
Distance from RF3: 0.09
On/Off RF3:
Description:
THESE DATA WERE COLLECTED DURING PHASE I OF THE NATIONAL STREAM SURVEY AS PART OF EPA'S NATIONAL SURFACE WATER SURVEY AND AQUATIC EFFECTS RESEARCH PROGRAM UNDER THE NATIONAL ACID PRECIPITATION ASSESSMENT PROGRAM. THE SURVEY DESIGN, METHODS, AND DATA LIMITAITONS ARE DESCRIBED IN:

Parameter Inventory for Station: GRSM0194

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/25/85-07/08/85	4	10.9	10.7	15.	6.	19.96	4.468	**	**	**	**
00064	DEPTH OF STREAM, MEAN (FT)	03/25/85-07/08/85	4	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	03/25/85-07/08/85	4	10.	11.25	20.	5.	39.583	6.292	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/25/85-07/08/85	4	16.	17.	20.	16.	4.	2.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/25/85-07/08/85	4	9.5	9.5	10.8	8.2	2.253	1.501	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/25/85-07/08/85	4	6.75	6.775	7.1	6.5	0.062	0.25	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/25/85-07/08/85	4	6.747	6.725	7.1	6.5	0.066	0.257	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/25/85-07/08/85	4	0.179	0.188	0.316	0.079	0.01	0.099	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	03/25/85-07/08/85	4	106.7	117.35	155.6	100.4	667.71	25.84	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	03/25/85-07/08/85	4	5.	5.5	7.	5.	1.	1.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/85-07/08/85	4	0.02	0.021	0.027	0.016	0.	0.005	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/25/85-07/08/85	4	0.8	0.775	1.1	0.4	0.089	0.299	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	03/25/85-07/08/85	4	1.45	1.475	1.7	1.3	0.029	0.171	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/25/85-07/08/85	4	1.1	1.2	1.5	1.1	0.04	0.2	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/25/85-07/08/85	4	0.3	0.325	0.4	0.3	0.003	0.05	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	03/25/85-07/08/85	4	1.385	1.415	1.61	1.28	0.024	0.155	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/25/85-07/08/85	4	0.54	0.548	0.62	0.49	0.004	0.063	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	03/25/85-07/08/85	4	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/25/85-07/08/85	4	1.1	1.075	1.1	1.	0.003	0.05	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/25/85-07/08/85	4	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/25/85-07/08/85	4	9.05	9.225	10.8	8.	1.549	1.245	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/25/85-07/08/85	4	1.	1.	2.	0.	0.667	0.816	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/25/85-07/08/85	4	55.	60.25	106.	25.	1452.917	38.117	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/25/85-07/08/85	4	0.25	0.375	0.8	0.2	0.083	0.287	**	**	**	**
71885	IRON (UG/L AS FE)	03/25/85-07/08/85	4	2.4	2.625	5.	0.7	4.856	2.204	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/25/85-07/08/85	4	2900.	2900.	2900.	2900.	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/25/85-07/08/85	4	0.35	0.425	0.8	0.2	0.069	0.263	**	**	**	**
83509	STREAM, WIDTH METER	03/25/85-07/08/85	4	2.7	2.7	2.7	2.7	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: GRSM0194

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Fresh Acute	4.	4	0	0.00	1	0	0.00	3	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	4	0	0.00	1	0	0.00	3	0	0.00						
		Other-Lo Lim.	6.5	4	1	0.25	1	1	1.00	3	0	0.00						
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	4	4	1.00	1	1	1.00	3	3	1.00						
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	4	0	0.00	1	0	0.00	3	0	0.00						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	4	0	0.00	1	0	0.00	3	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	4	0	0.00	1	0	0.00	3	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	4	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: GRSM0195

NPS Station ID: GRSM0195
LAT/LON: 35.680281/ -83.373059
Agency: 12NSS
Date Created: 10/22/88
Location: FALSE GAP PRONG
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 2A07811U /2AS2A07811U
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010107
Depth of Water: 3
Aquifer:
Major Basin:
Elevation: 829
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010107
RF1 Mile Point: 0.000
Distance from RF1: 0.50
On/Off RF1:
RF3 Index: 06010107004700.00
RF3 Mile Point: 0.00
Distance from RF3: 0.01
On/Off RF3:
Description:
THESE DATA WERE COLLECTED DURING PHASE I OF THE NATIONAL STREAM SURVEY AS PART OF EPA'S NATIONAL SURFACE WATER SURVEY AND AQUATIC EFFECTS RESEARCH PROGRAM UNDER THE NATIONAL ACID PRECIPITATION ASSESSMENT PROGRAM. THE SURVEY DESIGN, METHODS, AND DATA LIMITAITONS ARE DESCRIBED IN:

Parameter Inventory for Station: GRSM0195

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/85-07/16/85	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00064	DEPTH OF STREAM, MEAN (FT)	07/16/85-07/16/85	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	07/16/85-07/16/85	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/85-07/16/85	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/16/85-07/16/85	1	8.8	8.8	8.8	8.8	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/16/85-07/16/85	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/16/85-07/16/85	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/16/85-07/16/85	1	0.501	0.501	0.501	0.501	0.	0.	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	07/16/85-07/16/85	1	24.2	24.2	24.2	24.2	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	07/16/85-07/16/85	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/16/85-07/16/85	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/16/85-07/16/85	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	07/16/85-07/16/85	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/16/85-07/16/85	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/16/85-07/16/85	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/16/85-07/16/85	1	0.69	0.69	0.69	0.69	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/16/85-07/16/85	1	0.27	0.27	0.27	0.27	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	07/16/85-07/16/85	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/16/85-07/16/85	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/16/85-07/16/85	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/16/85-07/16/85	1	4.9	4.9	4.9	4.9	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/16/85-07/16/85	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/16/85-07/16/85	1	8.	8.	8.	8.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/16/85-07/16/85	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
71885	IRON (UG/L AS FE)	07/16/85-07/16/85	1	0.	0.	0.	0.	0.	0.	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	07/16/85-07/16/85	1	2720.	2720.	2720.	2720.	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/16/85-07/16/85	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
83509	STREAM, WIDTH METER	07/16/85-07/16/85	1	4.6	4.6	4.6	4.6	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 time series plot

EPA Water Quality Criteria Analysis for Station: GRSM0195

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Fresh Acute	4.	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	1	1.00				1	1	1.00						
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	1	1	1.00				1	1	1.00						
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0196

NPS Station ID: GRSM0196
LAT/LON: 35.684170/ -83.792504
Agency: 112WRD
Date Created: 04/25/92
Location: LITTLE RIVER AT KINZEL SPRINGS, TN
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03497322
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010201
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010201
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010201082300.00
RF3 Mile Point: 0.10
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0196

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/20/91-08/28/91	2	20.	20.	20.	20.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/91-08/28/91	2	32.5	32.5	37.	28.	40.5	6.364	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/20/91-08/20/91	1	9.7	9.7	9.7	9.7	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/20/91-08/20/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/20/91-08/20/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/20/91-08/20/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/20/91-08/20/91	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/20/91-08/20/91	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/20/91-08/20/91	1	0.14	0.14	0.14	0.14	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/20/91-08/20/91	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/20/91-08/20/91	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/20/91-08/20/91	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/20/91-08/20/91	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	08/20/91-08/28/91	2 ##	60.75	60.75	121.	0.5	7260.125	85.206	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	08/20/91-08/28/91	2 ##	0.891	0.891	2.083	-0.301	2.841	1.686	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			7.778								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/20/91-08/20/91	1	490.	490.	490.	490.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/20/91-08/20/91	1	2.69	2.69	2.69	2.69	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			490.								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/20/91-08/20/91	1 ##	0.005	0.005	0.005	0.005	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: GRSM0196

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	1	0	0.00				1	0	0.00						
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00				1	0	0.00						
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	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						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00				1	0	0.00						
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	2	0	0.00				2	0	0.00						

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

Station Inventory for Station: GRSM0197

NPS Station ID: GRSM0197 LAT/LON: 35.686670/ -83.036392 Agency: 21NC01WQ Date Created: 06/09/90
Location: WATERVILLE LAKE @ MOUTH OF WILKINS CREEK FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): E6415000 /FRBWL4
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 06010106 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: FRENCH BROAD ECO Region:
RF1 Index: 06010106 RF1 Mile Point: 0.000 Distance from RF1: 1.10 On/Off RF1:
RF3 Index: 06010106001303.33 RF3 Mile Point: 3.32 Distance from RF3: 0.03 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0197

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/01/90-07/28/92	24	24.05	24.275	26.6	22.8	0.988	0.994	23.15	23.525	24.975	25.85
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/01/90-07/28/92	2	4.9	4.9	6.8	3.	7.22	2.687	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/01/90-07/28/92	2	0.85	0.85	1.1	0.6	0.125	0.354	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/01/90-07/28/92	24	435.5	439.	496.	388.	1149.565	33.905	393.5	407.75	476.75	488.5
00300	OXYGEN, DISSOLVED MG/L	08/01/90-07/28/92	24	3.9	4.488	10.5	0.5	10.129	3.183	0.65	1.175	7.575	9.4
00400	PH (STANDARD UNITS)	08/01/90-07/28/92	24	7.15	7.529	9.2	6.8	0.547	0.74	6.9	6.9	8.175	8.8
00400	CONVERTED PH (STANDARD UNITS)	08/01/90-07/28/92	24	7.147	7.177	9.2	6.8	0.677	0.823	6.9	6.9	8.175	8.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/01/90-07/28/92	24	0.071	0.067	0.158	0.001	0.003	0.055	0.002	0.007	0.126	0.126
00500	RESIDUE, TOTAL (MG/L)	08/01/90-07/28/92	2	335.	335.	380.	290.	4050.	63.64	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/01/90-07/28/92	2	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/01/90-07/28/92	2	0.035	0.035	0.04	0.03	0.	0.007	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/01/90-07/28/92	2	0.45	0.45	0.7	0.2	0.125	0.354	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/01/90-07/28/92	2	0.565	0.565	0.61	0.52	0.004	0.064	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/01/90-07/28/92	2	0.125	0.125	0.17	0.08	0.004	0.064	**	**	**	**
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/01/90-07/28/92	2	48.	48.	80.	16.	2048.	45.255	**	**	**	**
32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/01/90-07/28/92	2 ##	1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/01/90-07/28/92	2	44.5	44.5	72.	17.	1512.5	38.891	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/01/90-08/01/90	1	0.09	0.09	0.09	0.09	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: GRSM0197

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a 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.	24	12	0.50				24	12	0.50						
00400	PH	Other-Hi Lim.	9.	24	2	0.08				24	2	0.08						
		Other-Lo Lim.	6.5	24	0	0.00				24	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

Station Inventory for Station: GRSM0198

NPS Station ID: GRSM0198 LAT/LON: 35.686670/ -83.036392 Agency: 21NC01WQ Date Created: 06/09/90
Location: WATERVILLE LAKE @ MOUTH OF WILKINS CREEK FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): E6415010 /FRBWL4SUR
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 06010106 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: FRENCH BROAD ECO Region:
RF1 Index: 06010106 RF1 Mile Point: 0.000 Distance from RF1: 1.70 On/Off RF1:
RF3 Index: 06010106001301.62 RF3 Mile Point: 3.13 Distance from RF3: 0.03 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0198

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	08/01/90-08/01/90	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/01/90-08/01/90	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/01/90-08/01/90	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/01/90-08/01/90	1	53.	53.	53.	53.	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: GRSM0198

			Total	Exceed	Prop.	10/01-3/31			4/01-9/30			n/a			n/a		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
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

Station Inventory for Station: GRSM0199

NPS Station ID: GRSM0199
LAT/LON: 35.686670/ -83.036392
Agency: 21NC01WQ
Date Created: 06/09/90
Location: WATERVILLE LAKE @ MOUTH OF WILKINS CREEK
FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): E6415020 /FRBWL4BOT
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010106
Depth of Water: 1
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: FRENCH BROAD
ECO Region:
RF1 Index: 06010106
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 06010106001301.62
RF3 Mile Point: 3.13
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0199

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: GRSM0200

NPS Station ID: GRSM0200
LAT/LON: 35.687505/ -83.035281
Agency: 131TVAC
Date Created: 04/09/83
Location: WALTERS LAKE
FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370079
RMI-Indexes: 1021500 007720 00920 9300 2520
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 652.10 073.80 039.00
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin: FRENCH BROAD RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: PIGEON RIVER 39.0
ECO Region:
RF1 Index: 06010106013
RF1 Mile Point: 0.850
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010106001301.62
RF3 Mile Point: 2.58
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0200

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/11/83-08/31/83	39	23.5	21.159	25.2	15.8	13.766	3.71	16.3	17.2	24.6	25.2
00080	COLOR (PLATINUM-COBALT UNITS)	05/11/83-08/31/83	6	95.	96.667	160.	40.	3146.667	56.095	**	**	**	**
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	05/11/83-08/31/83	6	130.	137.5	250.	65.	5237.5	72.371	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/11/83-08/31/83	39	950.	647.231	1060.	259.	145131.603	380.961	259.	263.	1030.	1046.
00300	OXYGEN, DISSOLVED MG/L	05/11/83-08/31/83	39	3.8	4.405	9.7	0.5	9.47	3.077	0.5	1.1	7.2	7.5
00303	BOD, 1DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	0.35	0.45	1.	0.	0.151	0.389	**	**	**	**
00304	BOD, 2 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	0.7	0.8	1.6	0.2	0.272	0.522	**	**	**	**
00305	BOD, 3 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	1.1	1.333	2.6	0.4	0.635	0.797	**	**	**	**
00306	BOD, 4 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	1.7	1.683	2.7	0.7	0.426	0.652	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	1.75	1.867	2.9	0.7	0.587	0.766	**	**	**	**
00312	BOD, 6 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	2.25	2.2	3.1	1.	0.556	0.746	**	**	**	**
00315	BOD, 7 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	2.55	2.533	3.5	1.4	0.555	0.745	**	**	**	**
00316	BOD, 8 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	2.85	2.883	3.9	1.9	0.646	0.804	**	**	**	**
00317	BOD, 9 DAY, 20 DEG C MG/L	05/11/83-08/31/83	4	3.05	3.05	4.	2.1	0.683	0.827	**	**	**	**
00322	BOD, 10 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	3.5	3.533	4.5	2.5	0.583	0.763	**	**	**	**
00323	BOD, 15 DAY, 20 DEG C MG/L	08/31/83-08/31/83	3	4.2	4.233	4.8	3.7	0.303	0.551	**	**	**	**
00324	BOD, 20 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	5.5	5.617	7.3	4.	1.678	1.295	**	**	**	**
00327	BOD, 11DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	3.6	3.75	4.8	2.8	0.619	0.787	**	**	**	**
00328	BOD, 12 DAY, 20 DEG C MG/L	05/11/83-05/11/83	2	5.	5.	5.1	4.9	0.02	0.141	**	**	**	**
00329	BOD, 13 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	4.15	4.317	5.6	2.9	0.958	0.979	**	**	**	**
00333	BOD, 18 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	5.15	5.367	7.	4.	1.379	1.174	**	**	**	**
00336	BOD, 22 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	5.8	5.933	7.5	4.4	1.351	1.162	**	**	**	**
00345	BOD, 25 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	6.1	6.25	7.9	4.7	1.483	1.218	**	**	**	**
00347	BOD, 27 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	6.4	6.5	8.1	4.9	1.436	1.198	**	**	**	**
00348	BOD, 29 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	6.7	6.817	8.3	5.3	1.174	1.083	**	**	**	**
00353	BOD, 42 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	6.5	6.55	8.6	4.1	2.587	1.608	**	**	**	**
00356	BOD, 63 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	9.3	9.	9.8	8.	0.64	0.8	**	**	**	**
00357	BOD, 70 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	9.45	9.067	9.8	8.	0.703	0.838	**	**	**	**
00358	BOD, 77 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	9.8	9.35	10.	8.	0.703	0.838	**	**	**	**
00361	BOD, 98 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	11.	10.583	11.7	8.6	1.69	1.3	**	**	**	**
00363	BOD, 50 DAY, 20 DEG C MG/L	05/11/83-08/31/83	4	8.8	8.525	9.3	7.2	0.942	0.971	**	**	**	**
00364	BOD, 100 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	11.05	10.617	11.8	8.6	1.734	1.317	**	**	**	**
00400	PH (STANDARD UNITS)	05/11/83-08/31/83	38	6.8	6.798	7.3	6.5	0.056	0.236	6.5	6.6	6.92	7.195
00400	CONVERTED PH (STANDARD UNITS)	05/11/83-08/31/83	38	6.8	6.742	7.3	6.5	0.059	0.243	6.5	6.6	6.92	7.195
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/11/83-08/31/83	38	0.158	0.181	0.316	0.05	0.007	0.086	0.064	0.12	0.251	0.316
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/11/83-08/31/83	6	395.	393.333	610.	180.	52946.667	230.101	**	**	**	**
81254	BOD, 32 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	7.	7.033	8.3	5.7	0.939	0.969	**	**	**	**
81256	BOD, 34 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	7.2	7.183	8.4	5.8	0.914	0.956	**	**	**	**

** - Less 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: GRSM0200

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
81257	BOD, 36 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	7.5	7.467	8.7	6.2	0.859	0.927	**	**	**	**
81260	BOD, 39 DAY, 20 DEG C MG/L	05/11/83-05/11/83	3	8.2	7.967	8.8	6.9	0.943	0.971	**	**	**	**
81261	BOD, 41 DAY, 20 DEG C MG/L	05/11/83-05/11/83	3	8.5	8.2	9.	7.1	0.97	0.985	**	**	**	**
81262	BOD, 43 DAY, 20 DEG C MG/L	05/11/83-05/11/83	3	8.7	8.4	9.1	7.4	0.79	0.889	**	**	**	**
81265	BOD, 46 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	8.3	8.117	9.1	6.8	0.814	0.902	**	**	**	**
81267	BOD, 48 DAY, 20 DEG C MG/L	05/11/83-05/11/83	3	8.8	8.433	9.1	7.4	0.823	0.907	**	**	**	**
81268	BOD, 51 DAY, 20 DEG C MG/L	05/11/83-05/11/83	2	8.15	8.15	8.8	7.5	0.845	0.919	**	**	**	**
81270	BOD, 53 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	8.8	8.533	9.3	7.3	0.723	0.85	**	**	**	**
81272	BOD, 55 DAY, 20 DEG C MG/L	05/11/83-05/11/83	3	9.	8.667	9.3	7.7	0.723	0.85	**	**	**	**
81273	BOD, 57 DAY, 20 DEG C MG/L	05/11/83-08/31/83	5	9.1	8.66	9.6	7.6	0.883	0.94	**	**	**	**
81274	BOD, 58 DAY, 20 DEG C MG/L	08/31/83-08/31/83	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
81276	BOD, 60 DAY, 20 DEG C MG/L	05/11/83-08/31/83	6	9.05	8.8	9.6	7.7	0.724	0.851	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRSM0200

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	39	20	0.51				39	20	0.51						
00400	PH	Other-Hi Lim.	9.	38	0	0.00				38	0	0.00						
		Other-Lo Lim.	6.5	38	6	0.16				38	6	0.16						

& - 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: GRSM0201

NPS Station ID: GRSM0201
LAT/LON: 35.687781/ -83.059449
Agency: 131TVAC
Date Created: 05/21/83
Location: TRIBUTARY TO PIGEON RIVER 38.05
FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370129
RMI-Indexes: 1021500 007720 00920 9300 2520 2060
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 652.10 073.80 038.05 000.90
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin: FRENCH BROAD RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: CATALOOCHEE CREEK 0.9
ECO Region:
RF1 Index: 06010106012
RF1 Mile Point: 0.740
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010106002900.00
RF3 Mile Point: 0.13
Distance from RF3: 0.07
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0201

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/11/83-08/31/83	5	16.8	16.46	20.5	13.5	8.263	2.875	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/11/83-08/31/83	5	41.	106.8	302.	22.	14307.7	119.615	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/11/83-08/31/83	5	9.	9.24	9.8	8.8	0.223	0.472	**	**	**	**
00400	PH (STANDARD UNITS)	05/11/83-08/31/83	5	7.26	7.194	7.35	6.8	0.051	0.227	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/11/83-08/31/83	5	7.26	7.138	7.35	6.8	0.055	0.235	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/11/83-08/31/83	5	0.055	0.073	0.158	0.045	0.002	0.048	**	**	**	**

** - Less 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: GRSM0201

			Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			----------n/a----------			----------n/a----------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	5	0	0.00				5	0	0.00						
00400 PH	Other-Hi Lim.	9.	5	0	0.00				5	0	0.00						
	Other-Lo Lim.	6.5	5	0	0.00				5	0	0.00						

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

Station Inventory for Station: GRSM0202

NPS Station ID: GRSM0202
LAT/LON: 35.687781/ -83.535281
Agency: 131TVAC
Date Created: / /
Location:
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 475463 /5308
RMI-Indexes: 1021500 007720 00920 9300 1120 0220
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 652.10 027.40 005.10 020.66
HUC: 06010107
Depth of Water: 0
Aquifer:
Major Basin: FRENCH BROAD RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: WEST PRONG LITTLE PIGEON RIVER 20.66
ECO Region:
RF1 Index: 06010107015
RF1 Mile Point: 3.120
Distance from RF1: 1.00
On/Off RF1: OFF
RF3 Index: 06010107001100.25
RF3 Mile Point: 0.48
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0202

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/08/68-03/18/75	18	11.7	12.072	21.	2.	36.314	6.026	2.9	7.875	17.85	21.
00061	FLOW, STREAM, INSTANTANEOUS CFS	01/08/68-03/18/75	18	50.5	92.5	470.	19.	12592.382	112.216	19.9	31.75	112.	272.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/08/68-03/18/75	19	1.2	2.816	25.	0.5	31.038	5.571	0.5	0.5	2.	6.
00080	COLOR (PLATINUM-COBALT UNITS)	01/08/68-03/18/75	19	5.	6.632	15.	2.5	15.996	3.999	2.5	5.	6.	15.
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	04/24/74-01/14/75	5	5.	6.5	15.	2.5	23.75	4.873	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/08/68-03/18/75	19	25.	26.	36.	21.	16.111	4.014	21.	23.	29.	32.
00300	OXYGEN, DISSOLVED MG/L	01/08/68-03/18/75	19	10.7	10.647	13.7	8.5	2.036	1.427	9.	9.2	11.4	13.
00310	BOD, 5 DAY, 20 DEG C MG/L	01/08/68-03/18/75	19 ##	0.5	0.742	1.8	0.5	0.174	0.417	0.5	0.5	1.	1.7
00335	COD, .025N K2CR2O7 MG/L	04/24/74-01/14/75	4 ##	0.5	2.625	9.	0.5	18.063	4.25	**	**	**	**
00400	PH (STANDARD UNITS)	01/08/68-03/18/75	19	6.2	6.284	7.3	5.2	0.364	0.603	5.4	5.9	6.8	7.3
00400	CONVERTED PH (STANDARD UNITS)	01/08/68-03/18/75	19	6.2	5.938	7.3	5.2	0.49	0.7	5.4	5.9	6.8	7.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/08/68-03/18/75	19	0.631	1.153	6.31	0.05	2.51	1.584	0.05	0.158	1.259	3.981
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/08/68-03/18/75	19	3.	4.158	14.	1.	8.474	2.911	2.	3.	5.	8.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	01/08/68-03/18/75	19	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)	01/08/68-07/29/68	5	30.	26.	40.	10.	130.	11.402	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	01/08/68-07/29/68	5	30.	23.	30.	5.	120.	10.954	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/24/74-03/18/75	13 ##	0.5	0.962	2.	0.5	0.394	0.628	0.5	0.5	1.5	2.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	01/08/68-03/18/75	19	0.11	0.167	0.53	0.02	0.022	0.149	0.03	0.06	0.33	0.41
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/08/68-03/18/75	19	0.01	0.083	1.	0.005	0.052	0.228	0.005	0.005	0.02	0.21
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/08/68-06/20/74	8 ##	0.005	0.009	0.02	0.005	0.	0.007	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/08/68-06/20/74	8	0.425	0.426	0.64	0.27	0.02	0.142	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/24/74-03/18/75	11	0.53	0.555	0.69	0.42	0.009	0.092	0.424	0.48	0.64	0.68
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/11/68-03/18/75	18	0.01	0.014	0.04	0.002	0.	0.009	0.003	0.01	0.02	0.022
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	01/08/68-03/18/75	18	0.009	0.011	0.04	0.002	0.	0.009	0.003	0.005	0.014	0.022
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/24/74-01/14/75	4	0.65	0.8	1.4	0.5	0.167	0.408	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	01/08/68-03/18/75	18	2.	1.847	3.	0.25	0.832	0.912	0.475	1.	3.	3.
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/08/68-03/18/75	18	0.6	0.625	1.1	0.25	0.049	0.221	0.385	0.5	0.8	1.01
00929	SODIUM, TOTAL (MG/L AS NA)	01/08/68-03/18/75	19	0.8	1.8	18.7	0.4	16.819	4.101	0.6	0.7	1.	1.5
00937	POTASSIUM, TOTAL MG/L AS K)	01/08/68-03/18/75	19	0.4	0.637	3.9	0.3	0.659	0.812	0.3	0.3	0.5	1.
00940	CHLORIDE,TOTAL IN WATER MG/L	01/08/68-03/18/75	19	2.	1.737	4.	0.5	0.621	0.788	0.5	1.	2.	2.
00945	SULFATE, TOTAL (MG/L AS SO4)	01/08/68-03/18/75	19	3.	3.158	10.	1.	3.585	1.893	2.	2.	4.	4.
00951	FLUORIDE, TOTAL (MG/L AS F)	03/11/68-03/18/75	16	0.04	0.044	0.09	0.02	0.	0.019	0.02	0.03	0.05	0.076
00956	SILICA, TOTAL (MG/L AS SI02)	01/08/68-03/18/75	19	4.7	4.516	6.3	2.	1.737	1.318	2.2	3.7	5.8	6.
01002	ARSENIC, TOTAL (UG/L AS AS)	04/24/74-01/14/75	4 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	04/24/74-01/14/75	5 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	04/24/74-01/14/75	5 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	04/24/74-01/14/75	4 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	04/24/74-01/14/75	5 ##	0.5	1.2	4.	0.5	2.45	1.565	**	**	**	**

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Parameter Inventory for Station: GRSM0202

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/24/74-01/14/75	5 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	01/08/68-03/18/75	18 ##	5.	22.222	90.	5.	685.948	26.191	5.	5.	32.5	72.
01045	IRON, TOTAL (UG/L AS FE)	01/08/68-03/18/75	18	65.	99.444	260.	25.	7605.556	87.21	25.	25.	185.	242.
01046	IRON, DISSOLVED (UG/L AS FE)	01/08/68-03/18/75	19 ##	25.	29.211	80.	25.	184.064	13.567	25.	25.	25.	50.
01047	IRON, FERROUS (UG/L AS FE)	01/08/68-03/18/75	18	40.	38.333	100.	20.	341.176	18.471	20.	25.	42.5	55.
01051	LEAD, TOTAL (UG/L AS PB)	04/24/74-01/14/75	5 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	01/08/68-03/18/75	18 ##	5.	10.556	60.	5.	187.908	13.708	5.	5.	10.	33.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/08/68-03/18/75	19 ##	5.	7.105	20.	5.	14.766	3.843	5.	5.	10.	10.
01067	NICKEL, TOTAL (UG/L AS NI)	04/24/74-01/14/75	5 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	04/24/74-01/14/75	5 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	01/08/68-03/18/75	18	10.	35.556	170.	5.	2837.908	53.272	5.	5.	45.	170.
01105	ALUMINUM, TOTAL (UG/L AS AL)	04/24/74-01/14/75	5 ##	100.	190.	500.	50.	33000.	181.659	**	**	**	**
01132	LITHIUM, TOTAL (UG/L AS LI)	04/24/74-01/14/75	5 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	04/24/74-01/14/75	4 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01152	TITANIUM, TOTAL (UG/L AS TI)	04/24/74-01/14/75	5 ##	500.	500.	500.	500.	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	01/08/68-03/18/75	19 ##	5.	3510.526	60000.	5.	188148288.596	13716.716	5.	5.	70.	3600.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	01/08/68-03/18/75	19 ##	0.699	1.405	4.778	0.699	1.501	1.225	0.699	0.699	1.845	3.556
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			25.412								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/08/68-03/18/75	18 ##	5.	7.222	30.	5.	44.771	6.691	5.	5.	5.	21.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/08/68-03/18/75	18 ##	0.699	0.776	1.477	0.699	0.051	0.225	0.699	0.699	0.699	1.319
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.966								
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	01/08/68-03/18/75	16	7.	7.688	12.	2.	7.963	2.822	4.1	5.25	10.	12.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/24/74-03/18/75	13	20.	16.538	20.	5.	30.769	5.547	7.	10.	20.	20.
71900	MERCURY, TOTAL (UG/L AS HG)	04/24/74-01/14/75	4 ##	0.1	0.1	0.1	0.1	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: GRSM0202

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	19	0	0.00	9	0	0.00	10	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	19	0	0.00	9	0	0.00	10	0	0.00						
00400	PH	Other-Hi Lim.	9.	19	0	0.00	9	0	0.00	10	0	0.00						
		Other-Lo Lim.	6.5	19	13	0.68	9	7	0.78	10	6	0.60						
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	8	0	0.00	2	0	0.00	6	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	8	0	0.00	2	0	0.00	6	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	11	0	0.00	7	0	0.00	4	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	19	0	0.00	9	0	0.00	10	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	19	0	0.00	9	0	0.00	10	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	4	0	0.00	2	0	0.00	2	0	0.00						
		Drinking Water	50.	4	0	0.00	2	0	0.00	2	0	0.00						
01007	BARIUM, TOTAL	Drinking Water	2000.	5	0	0.00	2	0	0.00	3	0	0.00						
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	5	0	0.00	2	0	0.00	3	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	5	1	0.20	2	1	0.50	3	0	0.00						
		Drinking Water	5.	5	0	0.00	2	0	0.00	3	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	5	0	0.00	2	0	0.00	3	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	18	8	0.44	9	4	0.44	9	4	0.44						
		Drinking Water	1300.	18	0	0.00	9	0	0.00	9	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	5	0	0.00	2	0	0.00	3	0	0.00						
		Drinking Water	5.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	5	0	0.00	2	0	0.00	3	0	0.00						
		Drinking Water	100.	5	0	0.00	2	0	0.00	3	0	0.00						
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	50.	5	0	0.00	2	0	0.00	3	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	18	2	0.11	9	0	0.00	9	2	0.22						
01147	SELENIUM, TOTAL	Fresh Acute	20.	4	0	0.00	2	0	0.00	2	0	0.00						
		Drinking Water	50.	4	0	0.00	2	0	0.00	2	0	0.00						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	19	3	0.16	9	1	0.11	10	2	0.20						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	18	0	0.00	9	0	0.00	9	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: GRSM0202

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
71900 MERCURY, TOTAL	Fresh Acute	2.4	4	0	0.00	2	0	0.00	2	0	0.00						
	Drinking Water	2.	4	0	0.00	2	0	0.00	2	0	0.00						

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

Station Inventory for Station: GRSM0203

NPS Station ID: GRSM0203 LAT/LON: 35.688615/ -83.056115 Agency: 21NC01WQ Date Created: 06/09/90
Location: WATERVILLE LAKE IN CATALOOCHEE CREEK ARM FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): E6470000 /FRB049D /FRBWL6
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 06010106 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: FRENCH BROAD ECO Region:
RF1 Index: 06010106 RF1 Mile Point: 0.000 Distance from RF1: 1.70 On/Off RF1:
RF3 Index: 06010106001301.62 RF3 Mile Point: 3.13 Distance from RF3: 0.03 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0203

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/01/90-07/28/92	16	23.95	24.094	25.6	23.4	0.398	0.631	23.47	23.625	24.35	25.39
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/01/90-07/28/92	2	3.8	3.8	4.4	3.2	0.72	0.849	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/01/90-07/28/92	2	0.9	0.9	1.2	0.6	0.18	0.424	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/01/90-07/28/92	16	412.	384.188	446.	131.	5924.963	76.974	270.3	348.	425.	443.2
00300	OXYGEN, DISSOLVED MG/L	08/01/90-07/28/92	16	6.	5.306	10.8	0.6	8.642	2.94	1.09	2.475	6.65	9.61
00400	PH (STANDARD UNITS)	08/01/90-07/28/92	16	7.5	7.662	9.1	7.	0.4	0.632	7.	7.175	8.	8.89
00400	CONVERTED PH (STANDARD UNITS)	08/01/90-07/28/92	16	7.5	7.393	9.1	7.	0.477	0.691	7.	7.175	8.	8.89
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/01/90-07/28/92	16	0.032	0.04	0.1	0.001	0.001	0.035	0.001	0.011	0.07	0.1
00500	RESIDUE, TOTAL (MG/L)	08/01/90-07/28/92	2	315.	315.	360.	270.	4050.	63.64	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/01/90-07/28/92	2	5.	5.	7.	3.	8.	2.828	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/01/90-07/28/92	2	0.05	0.05	0.06	0.04	0.	0.014	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/01/90-07/28/92	2	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/01/90-07/28/92	2	0.525	0.525	0.55	0.5	0.001	0.035	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/01/90-07/28/92	2	0.11	0.11	0.14	0.08	0.002	0.042	**	**	**	**
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/01/90-07/28/92	2	26.5	26.5	39.	14.	312.5	17.678	**	**	**	**
32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/01/90-07/28/92	2 ##	1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/01/90-07/28/92	2	26.5	26.5	38.	15.	264.5	16.263	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/01/90-08/01/90	1	0.09	0.09	0.09	0.09	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: GRSM0203

				Total	Exceed	Prop.	10/01-3/31			4/01-9/30			n/a			n/a		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	2	0	0.00				2	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	16	6	0.38				16	6	0.38						
00400	PH	Other-Hi Lim.	9.	16	1	0.06				16	1	0.06						
		Other-Lo Lim.	6.5	16	0	0.00				16	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

Station Inventory for Station: GRSM0204

NPS Station ID: GRSM0204 LAT/LON: 35.688615/ -83.056115 Agency: 21NC01WQ Date Created: 06/09/90
Location: WATERVILLE LAKE IN CATALOOCHEE CREEK ARM FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): E64700100 /FRB049DSUR /FRBWL6SUR
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 06010106 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: FRENCH BROAD ECO Region:
RF1 Index: 06010106 RF1 Mile Point: 0.000 Distance from RF1: 0.50 On/Off RF1:
RF3 Index: 06010106001200.00 RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0204

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	08/01/90-08/01/90	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/01/90-08/01/90	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/01/90-08/01/90	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/01/90-08/01/90	1	50.	50.	50.	50.	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: GRSM0204

			Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			----------n/a----------			----------n/a----------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
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

Station Inventory for Station: GRSM0205

NPS Station ID: GRSM0205 LAT/LON: 35.688615/ -83.056115 Agency: 21NC01WQ Date Created: 06/09/90
Location: WATERVILLE LAKE IN CATALOOCHEE CREEK ARM FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): E6470020 /FRB049DBOT /FRBWL6BOT
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 06010106 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: FRENCH BROAD ECO Region:
RF1 Index: 06010106 RF1 Mile Point: 0.000 Distance from RF1: 0.50 On/Off RF1:
RF3 Index: 06010106001200.00 RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0205

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: GRSM0206

NPS Station ID: GRSM0206 | LAT/LON: 35.690281/ -83.108616 | Agency: 12NSS | Date Created: 10/22/88
Location: CORRELL BRANCH | FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): 2A07812U /2AS2A07812U
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 06010106 | Depth of Water: 0 | Aquifer:
Major Basin: | Elevation: 1237 | Water Body Id:
Minor Basin: | ECO Region:
RF1 Index: 06010106 | RF1 Mile Point: 0.000 | Distance from RF1: 10.10 | On/Off RF1:
RF3 Index: 06010106046600.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.02 | On/Off RF3:
Description:
THESE DATA WERE COLLECTED DURING PHASE I OF THE NATIONAL STREAM AQUATIC EFFECTS RESEARCH PROGRAM UNDER THE NATIONAL ACID PRECIPITATION ASSESSMENT PROGRAM. THE SURVEY DESIGN, METHODS, AND DATA LIMITAITONS ARE DESCRIBED IN: SURVEY AS PART OF EPA'S NATIONAL SURFACE WATER SURVEY AND

Parameter Inventory for Station: GRSM0206

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/08/85-07/08/85	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00064	DEPTH OF STREAM, MEAN (FT)	07/08/85-07/08/85	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	07/08/85-07/08/85	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/08/85-07/08/85	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/08/85-07/08/85	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/08/85-07/08/85	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/08/85-07/08/85	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/08/85-07/08/85	1	0.158	0.158	0.158	0.158	0.	0.	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	07/08/85-07/08/85	1	86.4	86.4	86.4	86.4	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	07/08/85-07/08/85	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/08/85-07/08/85	1	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/08/85-07/08/85	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	07/08/85-07/08/85	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/08/85-07/08/85	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/08/85-07/08/85	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/08/85-07/08/85	1	1.12	1.12	1.12	1.12	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/08/85-07/08/85	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	07/08/85-07/08/85	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/08/85-07/08/85	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/08/85-07/08/85	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/08/85-07/08/85	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/08/85-07/08/85	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/08/85-07/08/85	1	81.	81.	81.	81.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/08/85-07/08/85	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
71885	IRON (UG/L AS FE)	07/08/85-07/08/85	1	1.	1.	1.	1.	0.	0.	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	07/08/85-07/08/85	1	4060.	4060.	4060.	4060.	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/08/85-07/08/85	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
83509	STREAM, WIDTH METER	07/08/85-07/08/85	1	0.6	0.6	0.6	0.6	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 time series plot

EPA Water Quality Criteria Analysis for Station: GRSM0206

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Fresh Acute	4.	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						
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	1	1	1.00				1	1	1.00						
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0207

NPS Station ID: GRSM0207
LAT/LON: 35.690560/ -83.051393
Agency: 131TVAC
Date Created: 09/10/83
Location: TRIBUTARY TO PIGEON RIVER 38.05
FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370141
RMI-Indexes: 1021500 007720 00920 9300 2520 2060
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 652.10 073.80 038.05 000.70
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin: FRENCH BROAD RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: CATALOOCHEE CREEK 0.7
ECO Region:
RF1 Index: 06010106012
RF1 Mile Point: 0.390
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010106002506.49
RF3 Mile Point: 6.49
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0207

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/31/83-08/31/83	8	24.9	24.475	25.6	21.5	1.639	1.28	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/31/83-08/31/83	8	974.5	914.75	987.	576.	19961.929	141.287	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/31/83-08/31/83	8	1.1	1.438	3.7	0.7	0.991	0.996	**	**	**	**
00400	PH (STANDARD UNITS)	08/31/83-08/31/83	8	6.6	6.638	6.9	6.4	0.023	0.151	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/31/83-08/31/83	8	6.6	6.616	6.9	6.4	0.023	0.152	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/31/83-08/31/83	8	0.251	0.242	0.398	0.126	0.006	0.08	**	**	**	**

** - Less 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: GRSM0207

				Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	8	8	1.00				8	8	1.00						
00400	PH	Other-Hi Lim.	9.	8	0	0.00				8	0	0.00						
		Other-Lo Lim.	6.5	8	1	0.13				8	1	0.13						

& - 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: GRSM0208

NPS Station ID: GRSM0208
LAT/LON: 35.693059/ -83.045837
Agency: 12ELS1
Date Created: 04/16/88
Location: WALTERS LAKE
FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 3A2-006
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010106
Depth of Water: 104
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010106
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 06010106002506.50
RF3 Mile Point: 7.72
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0208

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/29/84-11/29/84	1	8.9	8.9	8.9	8.9	0.	0.	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	11/29/84-11/29/84	1	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	11/29/84-11/29/84	1	175.	175.	175.	175.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/29/84-11/29/84	1	475.	475.	475.	475.	0.	0.	**	**	**	**
00154	SULFATE (AS S) WHOLE WATER, MG/L	11/29/84-11/29/84	1	30.65	30.65	30.65	30.65	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/29/84-11/29/84	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/29/84-11/29/84	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/29/84-11/29/84	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	11/29/84-11/29/84	1	713.3	713.3	713.3	713.3	0.	0.	**	**	**	**
00662	PHOSPHORUS (P), WATER, TOTAL RECOVERABLE UG/L	11/29/84-11/29/84	1	286.	286.	286.	286.	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	11/29/84-11/29/84	1	14.9	14.9	14.9	14.9	0.	0.	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	11/29/84-11/29/84	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00910	CALCIUM (MG/L AS CACO3)	11/29/84-11/29/84	1	23.5	23.5	23.5	23.5	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/29/84-11/29/84	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/29/84-11/29/84	1	58.55	58.55	58.55	58.55	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/29/84-11/29/84	1	4.37	4.37	4.37	4.37	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/29/84-11/29/84	1	95.	95.	95.	95.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/29/84-11/29/84	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/29/84-11/29/84	1	11.1	11.1	11.1	11.1	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/29/84-11/29/84	1	160.	160.	160.	160.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	11/29/84-11/29/84	1	1090.	1090.	1090.	1090.	0.	0.	**	**	**	**
70151	SURFACE AREA OF LAKE OR RESERVOIR SQ KM	11/29/84-11/29/84	1	1.285	1.285	1.285	1.285	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/29/84-11/29/84	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
71885	IRON (UG/L AS FE)	11/29/84-11/29/84	1	290.	290.	290.	290.	0.	0.	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	11/29/84-11/29/84	1	2257.99	2257.99	2257.99	2257.99	0.	0.	**	**	**	**
82047	DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	11/29/84-11/29/84	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/29/84-11/29/84	1	16.2	16.2	16.2	16.2	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: GRSM0208

				Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			--------------n/a--------------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00154	SULFATE (AS S) WHOLE WATER	Drinking Water	400.	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: GRSM0208

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0209

NPS Station ID: GRSM0209
LAT/LON: 35.693059/ -83.050004
Agency: 131TVAC
Date Created: 04/09/83
Location: MOUTH AT PIGEON RIVER 38.05
FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370083
RMI-Indexes: 1021500 007720 00920 9300 2520 2060
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 652.10 073.80 038.05 000.20
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin: FRENCH BROAD RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: CATALOOCHEE CREEK 0.2
ECO Region:
RF1 Index: 06010106012
RF1 Mile Point: 0.250
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010106002800.00
RF3 Mile Point: 0.00
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0209

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/11/83-08/31/83	58	21.1	20.521	25.8	13.4	13.811	3.716	15.69	16.95	23.6	25.03
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/11/83-08/31/83	58	672.5	563.034	1029.	264.	79484.279	281.93	286.9	296.75	773.	1008.6
00300	OXYGEN, DISSOLVED MG/L	05/11/83-08/31/83	58	2.85	4.252	8.2	0.4	9.685	3.112	0.4	1.375	7.325	7.8
00400	PH (STANDARD UNITS)	05/11/83-08/31/83	58	6.7	6.801	7.41	6.3	0.118	0.344	6.4	6.5	7.085	7.233
00400	CONVERTED PH (STANDARD UNITS)	05/11/83-08/31/83	58	6.7	6.679	7.41	6.3	0.134	0.366	6.4	6.5	7.085	7.233
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/11/83-08/31/83	58	0.2	0.21	0.501	0.039	0.021	0.144	0.058	0.082	0.316	0.398

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

EPA Water Quality Criteria Analysis for Station: GRSM0209

				Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	58	30	0.52				58	30	0.52						
00400	PH	Other-Hi Lim.	9.	58	0	0.00				58	0	0.00						
		Other-Lo Lim.	6.5	58	22	0.38				58	22	0.38						

& - 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: GRSM0210

NPS Station ID: GRSM0210
LAT/LON: 35.694726/ -83.049727
Agency: 21NC01WQ
Date Created: 06/09/90
Location: WATERVILLE LAKE AT DAM NR HEPCO NC
FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): E6475000 /FRB049F /FRBWL8
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010106
Depth of Water: 1
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: FRENCH BROAD
ECO Region:
RF1 Index: 06010106
RF1 Mile Point: 0.000
Distance from RF1: 0.50
On/Off RF1:
RF3 Index: 06010106001200.00
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0210

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/01/90-07/28/92	31	23.7	23.129	25.8	9.9	7.593	2.756	21.68	22.8	24.3	24.78
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	07/28/92-07/28/92	1	75.7	75.7	75.7	75.7	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/01/90-07/28/92	2	3.65	3.65	5.1	2.2	4.205	2.051	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/01/90-07/28/92	2	1.	1.	1.3	0.7	0.18	0.424	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/01/90-07/28/92	31	397.	386.903	458.	229.	2750.49	52.445	324.4	360.	423.	448.4
00300	OXYGEN, DISSOLVED MG/L	08/01/90-07/28/92	31	2.3	3.455	10.1	0.	10.807	3.287	0.1	0.4	6.7	8.6
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/28/92-07/28/92	1	50.6	50.6	50.6	50.6	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/01/90-07/28/92	31	6.9	7.297	9.	6.3	0.638	0.799	6.5	6.7	8.	8.58
00400	CONVERTED PH (STANDARD UNITS)	08/01/90-07/28/92	31	6.9	6.889	9.	6.3	0.81	0.9	6.5	6.7	8.	8.58
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/01/90-07/28/92	31	0.126	0.129	0.501	0.001	0.015	0.123	0.003	0.01	0.2	0.316
00500	RESIDUE, TOTAL (MG/L)	08/01/90-07/28/92	2	320.	320.	350.	290.	1800.	42.426	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/01/90-07/28/92	2	7.	7.	7.	7.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/01/90-07/28/92	2	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/01/90-07/28/92	2	0.35	0.35	0.5	0.2	0.045	0.212	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/01/90-07/28/92	2	0.5	0.5	0.52	0.48	0.001	0.028	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/01/90-07/28/92	2	0.105	0.105	0.15	0.06	0.004	0.064	**	**	**	**
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/01/90-07/28/92	2	34.	34.	53.	15.	722.	26.87	**	**	**	**
32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/01/90-07/28/92	2 ##	1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/01/90-07/28/92	2	34.5	34.5	52.	17.	612.5	24.749	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/01/90-08/01/90	1	0.08	0.08	0.08	0.08	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: GRSM0210

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a 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.	31	20	0.65				31	20	0.65						
00400	PH	Other-Hi Lim.	9.	31	1	0.03				31	1	0.03						
		Other-Lo Lim.	6.5	31	4	0.13				31	4	0.13						
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

Station Inventory for Station: GRSM0211

NPS Station ID: GRSM0211
LAT/LON: 35.694726/ -83.049727
Agency: 21NC01WQ
Date Created: 06/09/90
Location: WATERVILLE LAKE AT DAM NR HEPCO NC
FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): E6475010 /FRB049FSUR /FRBWL8SUR
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010106
Depth of Water: 1
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: FRENCH BROAD
ECO Region:
RF1 Index: 06010106
RF1 Mile Point: 0.000
Distance from RF1: 0.70
On/Off RF1:
RF3 Index: 06010106001300.27
RF3 Mile Point: 1.10
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0211

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	08/01/90-08/01/90	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/01/90-08/01/90	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/01/90-08/01/90	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/01/90-08/01/90	1	51.	51.	51.	51.	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: GRSM0211

			Total	Exceed	Prop.	10/01-3/31			4/01-9/30			n/a			n/a		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
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

Station Inventory for Station: GRSM0212

NPS Station ID: GRSM0212
LAT/LON: 35.694726/ -83.049727
Agency: 21NC01WQ
Date Created: 06/09/90
Location: WATERVILLE LAKE AT DAM NR HEPCO NC
FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): E6475020 /FRB049FBOT /FRBWL8BOT
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010106
Depth of Water: 1
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: FRENCH BROAD
ECO Region:
RF1 Index: 06010106
RF1 Mile Point: 0.000
Distance from RF1: 0.70
On/Off RF1:
RF3 Index: 06010106001300.27
RF3 Mile Point: 1.10
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0212

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: GRSM0213

NPS Station ID: GRSM0213
LAT/LON: 35.699449/ -83.383615
Agency: 12NSS
Date Created: 10/22/88
Location: FALSE GAP PRONG
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 2A07811L /2AS2A07811L
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010107
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 549
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010107
RF1 Mile Point: 0.000
Distance from RF1: 0.90
On/Off RF1:
RF3 Index: 06010201003226.38
RF3 Mile Point: 27.15
Distance from RF3: 0.00
On/Off RF3:
Description:
THESE DATA WERE COLLECTED DURING PHASE I OF THE NATIONAL STREAM SURVEY AS PART OF EPA'S NATIONAL SURFACE WATER SURVEY AND AQUATIC EFFECTS RESEARCH PROGRAM UNDER THE NATIONAL ACID PRECIPITATION ASSESSMENT PROGRAM. THE SURVEY DESIGN, METHODS, AND DATA LIMITAITONS ARE DESCRIBED IN:

Parameter Inventory for Station: GRSM0213

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/28/85-07/16/85	4	12.	12.7	19.	7.8	23.06	4.802	**	**	**	**
00064	DEPTH OF STREAM, MEAN (FT)	03/28/85-07/16/85	4	1.	1.	1.	1.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	03/28/85-07/16/85	4	10.	11.25	15.	10.	6.25	2.5	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/28/85-07/16/85	4	14.5	14.75	16.	14.	0.917	0.957	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/28/85-07/16/85	4	9.75	9.7	10.9	8.4	1.327	1.152	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/28/85-07/16/85	4	6.4	6.425	6.6	6.3	0.016	0.126	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/28/85-07/16/85	4	6.4	6.412	6.6	6.3	0.016	0.127	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/28/85-07/16/85	4	0.398	0.387	0.501	0.251	0.011	0.103	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	03/28/85-07/16/85	4	18.3	21.725	37.3	13.	114.083	10.681	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	03/28/85-07/16/85	4	0.85	0.775	1.	0.4	0.069	0.263	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/28/85-07/16/85	4	0.007	0.007	0.011	0.004	0.	0.003	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/28/85-07/16/85	4	0.45	0.45	0.5	0.4	0.003	0.058	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	03/28/85-07/16/85	4	0.4	0.375	0.5	0.2	0.016	0.126	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/28/85-07/16/85	4	1.	1.025	1.2	0.9	0.016	0.126	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/28/85-07/16/85	4	0.35	0.35	0.4	0.3	0.003	0.058	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	03/28/85-07/16/85	4	0.655	0.678	0.78	0.62	0.005	0.073	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/28/85-07/16/85	4	0.39	0.375	0.42	0.3	0.003	0.053	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	03/28/85-07/16/85	4	0.4	0.425	0.5	0.4	0.002	0.05	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/28/85-07/16/85	4	2.	2.075	2.3	2.	0.022	0.15	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/28/85-07/16/85	4	0.025	0.025	0.03	0.02	0.	0.006	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/28/85-07/16/85	4	4.7	4.8	5.6	4.2	0.447	0.668	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/28/85-07/16/85	4	0.	0.625	2.5	0.	1.563	1.25	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/28/85-07/16/85	4	53.	157.75	496.	29.	50980.917	225.79	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/28/85-07/16/85	4	2.25	2.2	2.8	1.5	0.3	0.548	**	**	**	**
71885	IRON (UG/L AS FE)	03/28/85-07/16/85	4	0.45	0.4	0.7	0.	0.087	0.294	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/28/85-07/16/85	4	1800.	1800.	1800.	1800.	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/28/85-07/16/85	4	0.25	0.225	0.3	0.1	0.009	0.096	**	**	**	**
83509	STREAM, WIDTH METER	03/28/85-07/16/85	4	6.7	6.7	6.7	6.7	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: GRSM0213

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Fresh Acute	4.	4	0	0.00	1	0	0.00	3	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	4	0	0.00	1	0	0.00	3	0	0.00						
		Other-Lo Lim.	6.5	4	3	0.75	1	1	1.00	3	2	0.67						
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	4	4	1.00	1	1	1.00	3	3	1.00						
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	4	0	0.00	1	0	0.00	3	0	0.00						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	4	0	0.00	1	0	0.00	3	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	4	0	0.00	1	0	0.00	3	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	4	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: GRSM0214

NPS Station ID: GRSM0214
LAT/LON: 35.706948/ -83.525559
Agency: 112WRD
Date Created: 07/18/78
Location: SV:E-11, GATLINBURG, TN (GAT-5)
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 354225083313200
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010107
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010107
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010107049100.00
RF3 Mile Point: 0.00
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0214

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/05/78-05/05/78	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	05/05/78-05/05/78	1	75.	75.	75.	75.	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/05/78-05/05/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	05/05/78-05/05/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/05/78-05/05/78	1	90.	90.	90.	90.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/05/78-05/05/78	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/05/78-05/05/78	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/05/78-05/05/78	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	05/05/78-05/05/78	1	3.6	3.6	3.6	3.6	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/05/78-05/05/78	1	46.	46.	46.	46.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	05/05/78-05/05/78	1	56.	56.	56.	56.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	05/05/78-05/05/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/05/78-05/05/78	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/05/78-05/05/78	1	0.38	0.38	0.38	0.38	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/05/78-05/05/78	1	0.39	0.39	0.39	0.39	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/05/78-05/05/78	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/05/78-05/05/78	1	4.2	4.2	4.2	4.2	0.	0.	**	**	**	**
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	05/05/78-05/05/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/05/78-05/05/78	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/05/78-05/05/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/05/78-05/05/78	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/05/78-05/05/78	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/05/78-05/05/78	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	05/05/78-05/05/78	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	05/05/78-05/05/78	1	33.	33.	33.	33.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/05/78-05/05/78	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/05/78-05/05/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/05/78-05/05/78	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/05/78-05/05/78	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/05/78-05/05/78	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/05/78-05/05/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	05/05/78-05/05/78	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/05/78-05/05/78	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	05/05/78-05/05/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/05/78-05/05/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/05/78-05/05/78	1	70.	70.	70.	70.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/05/78-05/05/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/05/78-05/05/78	1	14.	14.	14.	14.	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: GRSM0214

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01055	MANGANESE, TOTAL (UG/L AS MN)	05/05/78-05/05/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/05/78-05/05/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	05/05/78-05/05/78	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/05/78-05/05/78	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/05/78-05/05/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	05/05/78-05/05/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	05/05/78-05/05/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/05/78-05/05/78	1	72.	72.	72.	72.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/05/78-05/05/78	1	69.	69.	69.	69.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	05/05/78-05/05/78	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	05/05/78-05/05/78	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/05/78-05/05/78	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0214

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						
00400	PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00				1	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	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						
00720	CYANIDE, TOTAL	Fresh Acute	0.022	1	0	0.00				1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01007	BARIUM, TOTAL	Drinking Water	2000.	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						
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						
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	5.	1	1	1.00				1	1	1.00						
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	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						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0215

NPS Station ID: GRSM0215 LAT/LON: 35.707505/ -83.524449 Agency: 131TVAC Date Created: / /
Location: OWNBY STREET BRIDGE 0.2 MILE ABOVE LE CONTE CR. FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 475464 /5305
RMI-Indexes: 1021500 007720 00920 9300 1120 0220 Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 652.10 027.40 005.10 018.89
HUC: 06010107 Depth of Water: 0 Aquifer:
Major Basin: FRENCH BROAD RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: WEST PRONG LITTLE PIGEON RIVER 18.89 ECO Region:
RF1 Index: 06010107 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010107001502.87 RF3 Mile Point: 3.05 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0215

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/08/68-03/18/75	22	14.5	13.182	24.	2.	42.411	6.512	3.42	8.45	17.75	22.
00061	FLOW, STREAM, INSTANTANEOUS CFS	01/08/68-03/18/75	20	59.5	107.45	570.	22.	16696.892	129.216	24.4	40.75	116.75	289.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/24/74-03/18/75	14	0.95	1.2	4.3	0.5	1.092	1.045	0.5	0.5	1.4	3.4
00080	COLOR (PLATINUM-COBALT UNITS)	04/24/74-03/18/75	14	5.	5.464	15.	2.5	8.018	2.832	3.25	5.	5.	10.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/74-04/24/74	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	01/08/68-03/18/75	22	10.35	10.436	13.5	8.3	2.32	1.523	8.43	9.2	11.3	12.85
00310	BOD, 5 DAY, 20 DEG C MG/L	04/24/74-03/18/75	14 ##	0.5	0.543	1.1	0.5	0.026	0.16	0.5	0.5	0.5	0.8
00400	PH (STANDARD UNITS)	03/11/68-03/18/75	18	6.2	6.256	7.3	5.2	0.331	0.575	5.47	5.75	6.625	7.12
00400	CONVERTED PH (STANDARD UNITS)	03/11/68-03/18/75	18	6.2	5.926	7.3	5.2	0.446	0.668	5.47	5.75	6.625	7.12
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/11/68-03/18/75	18	0.631	1.187	6.31	0.05	2.519	1.587	0.077	0.238	1.817	3.477
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/11/68-03/18/75	16	4.	4.688	14.	1.	11.429	3.381	1.7	2.25	5.75	10.5
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/11/68-03/18/75	16	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/24/74-03/18/75	14	1.	1.214	4.	0.5	0.989	0.994	0.5	0.5	2.	3.
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	01/08/68-03/18/75	22 ##	5.	329.318	2500.	5.	522610.227	722.918	5.	5.	122.5	1909.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	01/08/68-03/18/75	22 ##	0.699	1.374	3.398	0.699	0.989	0.994	0.699	0.699	2.027	3.27
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			23.635								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/08/68-03/18/75	21 ##	5.	138.095	2170.	5.	227336.19	476.798	5.	5.	7.5	400.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/08/68-03/18/75	21 ##	0.699	1.046	3.336	0.699	0.566	0.752	0.699	0.699	0.849	2.554
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			11.122								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/24/74-03/18/75	14	20.	18.214	30.	5.	52.335	7.234	7.5	10.	20.	30.

** - Less 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: GRSM0215

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	14	0	0.00	7	0	0.00	7	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	22	0	0.00	9	0	0.00	13	0	0.00						
00400	PH	Other-Hi Lim.	9.	18	0	0.00	8	0	0.00	10	0	0.00						
		Other-Lo Lim.	6.5	18	12	0.67	8	7	0.88	10	5	0.50						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	22	3	0.14	9	0	0.00	13	3	0.23						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	21	2	0.10	9	0	0.00	12	2	0.17						

& - 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: GRSM0216

NPS Station ID: GRSM0216
LAT/LON: 35.708338/ -83.515560
Agency: 112WRD
Date Created: 07/18/78
Location: SV:E-5,GATLINBURG,TN.(GAT-9)
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 354230083305600
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010107
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010107
RF1 Mile Point: 0.000
Distance from RF1: 0.40
On/Off RF1:
RF3 Index: 06010107001501.24
RF3 Mile Point: 1.47
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0216

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/78-05/04/78	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	05/04/78-05/04/78	1	57.	57.	57.	57.	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/04/78-05/04/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/78-05/04/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/78-05/04/78	1	110.	110.	110.	110.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/04/78-05/04/78	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/04/78-05/04/78	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/78-05/04/78	1	0.398	0.398	0.398	0.398	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	05/04/78-05/04/78	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/04/78-05/04/78	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	05/04/78-05/04/78	1	42.	42.	42.	42.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	05/04/78-05/04/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/04/78-05/04/78	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/04/78-05/04/78	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/04/78-05/04/78	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/78-05/04/78	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/04/78-05/04/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	05/04/78-05/04/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/04/78-05/04/78	1	32.	32.	32.	32.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/04/78-05/04/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/04/78-05/04/78	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/04/78-05/04/78	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/04/78-05/04/78	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	05/04/78-05/04/78	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	05/04/78-05/04/78	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/04/78-05/04/78	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/78-05/04/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/78-05/04/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/04/78-05/04/78	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/04/78-05/04/78	1	21.	21.	21.	21.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/04/78-05/04/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	05/04/78-05/04/78	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/04/78-05/04/78	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	05/04/78-05/04/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/04/78-05/04/78	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/04/78-05/04/78	1	130.	130.	130.	130.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/04/78-05/04/78	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/04/78-05/04/78	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRSM0216

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01055	MANGANESE, TOTAL (UG/L AS MN)	05/04/78-05/04/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/04/78-05/04/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	05/04/78-05/04/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/04/78-05/04/78	1	140.	140.	140.	140.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/04/78-05/04/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	05/04/78-05/04/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	05/04/78-05/04/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/04/78-05/04/78	1	58.	58.	58.	58.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/04/78-05/04/78	1	67.	67.	67.	67.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	05/04/78-05/04/78	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	05/04/78-05/04/78	1	0.18	0.18	0.18	0.18	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/04/78-05/04/78	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0216

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						
00400	PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00				1	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	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						
00720	CYANIDE, TOTAL	Fresh Acute	0.022	1	0	0.00				1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01007	BARIUM, TOTAL	Drinking Water	2000.	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						
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						
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	5.	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	50.	1	0	0.00				1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	1	1	1.00				1	1	1.00						
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						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0217

NPS Station ID: GRSM0217
LAT/LON: 35.708338/ -83.519170
Agency: 112WRD
Date Created: 07/18/78
Location: SV:E-2,GATLINBURG,TN.(GAT-6)
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 354230083310900
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010107
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010107
RF1 Mile Point: 0.000
Distance from RF1: 1.30
On/Off RF1:
RF3 Index: 06010107004100.00
RF3 Mile Point: 0.16
Distance from RF3: 0.14
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0217

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/06/78-05/06/78	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	05/06/78-05/06/78	1	60.	60.	60.	60.	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/06/78-05/06/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	05/06/78-05/06/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/06/78-05/06/78	1	150.	150.	150.	150.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/06/78-05/06/78	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/06/78-05/06/78	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/06/78-05/06/78	1	0.251	0.251	0.251	0.251	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	05/06/78-05/06/78	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/06/78-05/06/78	1	48.	48.	48.	48.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	05/06/78-05/06/78	1	59.	59.	59.	59.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	05/06/78-05/06/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/06/78-05/06/78	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/06/78-05/06/78	1	3.3	3.3	3.3	3.3	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/06/78-05/06/78	1	3.3	3.3	3.3	3.3	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/06/78-05/06/78	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/06/78-05/06/78	1	5.3	5.3	5.3	5.3	0.	0.	**	**	**	**
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	05/06/78-05/06/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/06/78-05/06/78	1	49.	49.	49.	49.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/06/78-05/06/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/06/78-05/06/78	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/06/78-05/06/78	1	2.9	2.9	2.9	2.9	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/06/78-05/06/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	05/06/78-05/06/78	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	05/06/78-05/06/78	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/06/78-05/06/78	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/06/78-05/06/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/06/78-05/06/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/06/78-05/06/78	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/06/78-05/06/78	1	22.	22.	22.	22.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/06/78-05/06/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	05/06/78-05/06/78	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/06/78-05/06/78	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	05/06/78-05/06/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/06/78-05/06/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/06/78-05/06/78	1	400.	400.	400.	400.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/06/78-05/06/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/06/78-05/06/78	1	7.	7.	7.	7.	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: GRSM0217

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01055	MANGANESE, TOTAL (UG/L AS MN)	05/06/78-05/06/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/06/78-05/06/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	05/06/78-05/06/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/06/78-05/06/78	1	180.	180.	180.	180.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/06/78-05/06/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	05/06/78-05/06/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	05/06/78-05/06/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/06/78-05/06/78	1	101.	101.	101.	101.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/06/78-05/06/78	1	82.	82.	82.	82.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	05/06/78-05/06/78	1	0.14	0.14	0.14	0.14	0.	0.	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	05/06/78-05/06/78	1	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/06/78-05/06/78	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0217

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						
00400	PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00				1	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	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						
00720	CYANIDE, TOTAL	Fresh Acute	0.022	1	0	0.00				1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01007	BARIUM, TOTAL	Drinking Water	2000.	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						
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						
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	5.	1	1	1.00				1	1	1.00						
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	1	1	1.00				1	1	1.00						
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						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0218

NPS Station ID: GRSM0218 LAT/LON: 35.725004/ -83.511949 Agency: 21TNWQ Date Created: 09/11/82
Location: W PRONG LITTLE PIGEON R 16.35 QUAD 157NE FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): LPIGEONIS13
RMI-Indexes: 1021500 007720 00920 9300 1120 0220 Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 652.10 027.40 005.10 016.35
HUC: 06010107 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER Elevation: 0 Water Body Id:
Minor Basin: FRENCH BROAD RIVER ECO Region:
RF1 Index: 06010107014 RF1 Mile Point: 9.220 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010107001500.00 RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
100 YDS D/S OF GATLINBURG WWTP WQ LIB INDEX NO. AW0.03

Parameter Inventory for Station: GRSM0218

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/15/81-07/23/81	4	16.	15.775	23.6	7.5	43.269	6.578	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/15/81-08/13/81	5	9.2	8.74	9.8	7.7	0.878	0.937	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	04/15/81-08/13/81	5	1.	2.44	6.	1.	4.868	2.206	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	04/15/81-08/13/81	5	5.	8.8	16.	5.	28.2	5.31	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/15/81-08/13/81	5	7.3	7.32	7.5	7.	0.042	0.205	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/15/81-08/13/81	5	7.3	7.278	7.5	7.	0.044	0.21	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/15/81-08/13/81	5	0.05	0.053	0.1	0.032	0.001	0.028	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/15/81-08/13/81	5	0.47	3.07	11.	0.02	21.467	4.633	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/15/81-08/13/81	5	0.47	0.532	0.86	0.28	0.05	0.224	**	**	**	**
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	04/15/81-08/13/81	5	0.9	1.38	3.8	0.3	1.967	1.402	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/15/81-08/13/81	5	0.25	0.338	0.83	0.01	0.114	0.338	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/23/81-08/13/81	2	1.	1.	1.	1.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/23/81-08/13/81	2	1.	1.	1.	1.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/23/81-08/13/81	2	4.5	4.5	6.	3.	4.5	2.121	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	07/23/81-08/13/81	2	365.	365.	420.	310.	6050.	77.782	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	07/23/81-08/13/81	2	10.	10.	10.	10.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/23/81-08/13/81	2	24.5	24.5	26.	23.	4.5	2.121	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/23/81-08/13/81	2	10.	10.	10.	10.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/23/81-08/13/81	2	10.5	10.5	11.	10.	0.5	0.707	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/13/81-08/13/81	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: GRSM0218

				Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	5	0	0.00				5	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	5	0	0.00				5	0	0.00						
		Other-Lo Lim.	6.5	5	0	0.00				5	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	5	0	0.00				5	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00				2	0	0.00						
		Drinking Water	5.	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: GRSM0218

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00				2	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00				2	0	0.00						
		Drinking Water	1300.	2	0	0.00				2	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00				2	0	0.00						
		Drinking Water	5.	2	2	1.00				2	2	1.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00				2	0	0.00						
		Drinking Water	100.	2	0	0.00				2	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00				2	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0219

NPS Station ID: GRSM0219
LAT/LON: 35.726116/ -83.512505
Agency: 21TNWQ
Date Created: 09/11/82
Location: W PRONG LITTLE PIGEON R 16.4 QUAD 157NE
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): LPIGEONIS11
RMI-Indexes: 1021500 007720 00920 9300 1120 0220
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 652.10 027.40 005.10 016.40
HUC: 06010107
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER
Elevation: 0
Water Body Id:
Minor Basin: FRENCH BROAD RIVER
ECO Region:
RF1 Index: 06010107014
RF1 Mile Point: 9.220
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010107001503.77
RF3 Mile Point: 3.88
Distance from RF3: 0.04
On/Off RF3:
Description:
100 YDS U/S OF GATLINBURG WWTP
WQ LIB INDEX NO. AW0.03

Parameter Inventory for Station: GRSM0219

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/15/81-08/13/81	5	21.	18.66	25.6	7.5	53.393	7.307	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/15/81-08/13/81	5	8.8	9.1	10.9	8.4	1.055	1.027	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	04/15/81-08/13/81	5	1.	1.	1.	1.	0.	0.	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	04/15/81-08/13/81	5	6.	7.8	14.	5.	14.7	3.834	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/15/81-08/13/81	5	7.8	7.64	8.3	6.8	0.353	0.594	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/15/81-08/13/81	5	7.8	7.32	8.3	6.8	0.481	0.694	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/15/81-08/13/81	5	0.016	0.048	0.158	0.005	0.004	0.064	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/15/81-08/13/81	5	0.04	0.082	0.23	0.02	0.008	0.089	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/15/81-08/13/81	5	0.32	0.326	0.37	0.26	0.002	0.043	**	**	**	**
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	04/15/81-08/13/81	5	0.4	0.64	1.1	0.3	0.143	0.378	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/15/81-08/13/81	5	0.06	0.074	0.1	0.06	0.	0.019	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/23/81-08/13/81	2	1.	1.	1.	1.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/23/81-08/13/81	2	1.	1.	1.	1.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/23/81-08/13/81	2	2.	2.	3.	1.	2.	1.414	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	07/23/81-08/13/81	2	705.	705.	900.	510.	76050.	275.772	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	07/23/81-08/13/81	2	10.	10.	10.	10.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/23/81-08/13/81	2	36.5	36.5	38.	35.	4.5	2.121	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/23/81-08/13/81	2	10.	10.	10.	10.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/23/81-08/13/81	2	9.5	9.5	10.	9.	0.5	0.707	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/13/81-08/13/81	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: GRSM0219

			Total	Exceed	Prop.	10/01-3/31			4/01-9/30			n/a			n/a		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	5	0	0.00				5	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	5	0	0.00				5	0	0.00						
		Other-Lo Lim.	6.5	5	0	0.00				5	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	5	0	0.00				5	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00				2	0	0.00						
		Drinking Water	5.	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: GRSM0219

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00				2	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00				2	0	0.00						
		Drinking Water	1300.	2	0	0.00				2	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00				2	0	0.00						
		Drinking Water	5.	2	2	1.00				2	2	1.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00				2	0	0.00						
		Drinking Water	100.	2	0	0.00				2	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00				2	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0220

NPS Station ID: GRSM0220
LAT/LON: 35.729726/ -83.628616
Agency: 112WRD
Date Created: 12/22/84
Location: COVE CREEK AT HATCHERTOWN, TN
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03469610
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010107
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010107013
RF1 Mile Point: 4.610
Distance from RF1: 13.40
On/Off RF1: OFF
RF3 Index: 06010107005503.69
RF3 Mile Point: 4.03
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0220

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/83-09/26/85	6	18.25	16.417	20.	10.	17.142	4.14	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/18/83-09/26/85	6	3.5	4.167	7.	2.	3.767	1.941	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/83-09/26/85	5	250.	256.	340.	200.	2630.	51.284	**	**	**	**

** - Less 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: GRSM0221

NPS Station ID: GRSM0221
LAT/LON: 35.730004/ -83.450559
Agency: 112WRD
Date Created: / /
Location: DUDLEY CR NR GATLINBURG TENN
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03469290
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010107
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010107016
RF1 Mile Point: 3.830
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010107001506.26
RF3 Mile Point: 7.05
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0221

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	09/25/68-09/25/68	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	09/25/68-09/25/68	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/68-09/25/68	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/25/68-09/25/68	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/25/68-09/25/68	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/25/68-09/25/68	1	0.794	0.794	0.794	0.794	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/25/68-09/25/68	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/25/68-09/25/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/25/68-09/25/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/25/68-09/25/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/68-09/25/68	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/68-09/25/68	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/25/68-09/25/68	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/25/68-09/25/68	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/25/68-09/25/68	1	38.	38.	38.	38.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/25/68-09/25/68	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/25/68-09/25/68	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/25/68-09/25/68	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/25/68-09/25/68	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/25/68-09/25/68	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/25/68-09/25/68	1	20.	20.	20.	20.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/25/68-09/25/68	1	27.	27.	27.	27.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/25/68-09/25/68	1	27.	27.	27.	27.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/25/68-09/25/68	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/25/68-09/25/68	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/25/68-09/25/68	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0221

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						

& - 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: GRSM0222

NPS Station ID: GRSM0222
LAT/LON: 35.732504/ -83.520003
Agency: 131TVAC
Date Created: / /
Location: ABOVE SEWAGE DISPOSAL PLANT
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 475465 /5302
RMI-Indexes: 1021500 007720 00920 9300 1120 0220
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 652.10 027.40 005.10 016.17
HUC: 06010107
Depth of Water: 0
Aquifer:
Major Basin: FRENCH BROAD RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: WEST PRONG LITTLE PIGEON RIVER 16.17
ECO Region:
RF1 Index: 06010107
RF1 Mile Point: 0.000
Distance from RF1: 0.20
On/Off RF1:
RF3 Index: 06010107001501.24
RF3 Mile Point: 1.45
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0222

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/08/68-03/18/75	22	12.05	13.518	25.	2.	51.131	7.151	3.77	8.125	19.325	24.55
00061	FLOW, STREAM, INSTANTANEOUS CFS	01/08/68-03/18/75	22	113.5	189.091	900.	36.	40388.944	200.97	38.5	72.5	252.5	460.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/08/68-03/18/75	19	2.1	4.174	30.	1.	44.464	6.668	1.	1.2	3.	10.
00080	COLOR (PLATINUM-COBALT UNITS)	01/08/68-03/18/75	20	5.	8.375	20.	2.5	29.813	5.46	5.	5.	13.75	19.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/08/68-04/24/74	7	45.	47.	91.	20.	488.333	22.098	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	01/08/68-03/18/75	22	10.5	10.35	13.5	8.	2.497	1.58	8.16	8.975	11.5	12.68
00310	BOD, 5 DAY, 20 DEG C MG/L	01/08/68-03/18/75	20 ##	0.5	1.085	2.6	0.5	0.516	0.718	0.5	0.5	1.8	2.
00400	PH (STANDARD UNITS)	01/08/68-03/18/75	20	6.55	6.57	7.8	5.4	0.399	0.632	5.61	6.225	7.15	7.39
00400	CONVERTED PH (STANDARD UNITS)	01/08/68-03/18/75	20	6.547	6.168	7.8	5.4	0.569	0.754	5.61	6.225	7.15	7.39
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/08/68-03/18/75	20	0.284	0.679	3.981	0.016	1.05	1.025	0.041	0.072	0.599	2.46
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/08/68-03/18/75	20	11.	11.2	20.	3.	20.589	4.538	6.	7.25	14.5	18.8
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	01/08/68-03/18/75	20	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)	01/08/68-07/29/68	5	60.	72.	120.	30.	1670.	40.866	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	01/08/68-07/29/68	5	50.	54.	100.	30.	830.	28.81	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/24/74-03/18/75	14	2.	2.893	9.	0.5	5.776	2.403	0.75	1.	4.25	7.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	01/08/68-07/29/68	6	0.4	0.392	0.6	0.24	0.016	0.128	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/08/68-07/29/68	6	0.175	0.303	1.	0.1	0.119	0.345	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/08/68-07/29/68	6	0.015	0.019	0.04	0.005	0.	0.014	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/08/68-07/29/68	6	0.345	0.35	0.5	0.22	0.013	0.113	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/08/68-07/29/68	6	0.217	0.191	0.359	0.042	0.014	0.116	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	01/08/68-07/29/68	6	0.129	0.138	0.277	0.033	0.007	0.087	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	01/08/68-07/29/68	5	2.	2.1	3.	1.5	0.425	0.652	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/08/68-07/29/68	5	1.	0.8	1.	0.5	0.075	0.274	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	01/08/68-07/29/68	5	1.4	1.76	3.1	1.3	0.573	0.757	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	01/08/68-07/29/68	5	1.2	1.14	1.9	0.5	0.283	0.532	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	01/08/68-07/29/68	6	1.5	1.75	3.	0.5	1.175	1.084	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	01/08/68-07/29/68	6	3.5	4.	8.	2.	4.4	2.098	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	03/11/68-07/29/68	5	0.07	0.074	0.11	0.04	0.001	0.03	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	01/08/68-07/29/68	6	5.6	5.95	9.4	3.8	3.623	1.903	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	01/08/68-07/29/68	5	30.	53.	180.	5.	5145.	71.729	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	01/08/68-07/29/68	5	260.	380.	1000.	140.	126600.	355.809	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	01/08/68-07/29/68	5	60.	103.	220.	25.	6420.	80.125	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	01/08/68-07/29/68	6 ##	37.5	37.5	50.	25.	187.5	13.693	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	01/08/68-07/29/68	5	30.	44.	100.	10.	1180.	34.351	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/08/68-06/27/68	4	10.	16.25	40.	5.	256.25	16.008	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	01/08/68-07/29/68	5	110.	154.	330.	40.	12530.	111.937	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	01/08/68-03/18/75	22	150.	35258.636	270000.	5.	5750570767.1	75832.518	5.	5.	28250.	198900.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	01/08/68-03/18/75	22	2.175	2.667	5.431	0.699	3.147	1.774	0.699	0.699	4.432	5.27

** - Less 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: GRSM0222

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			464.742								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/08/68-03/18/75	21	50.	9551.19	103000.	5.	566028407.262	23791.352	5.	5.	5000.	33400.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/08/68-03/18/75	21	1.699	2.122	5.013	0.699	2.384	1.544	0.699	0.699	3.602	4.523
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			132.307								
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	01/08/68-07/29/68	5	8.	8.4	11.	6.	4.3	2.074	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/24/74-03/18/75	14	25.	25.714	40.	20.	41.758	6.462	20.	20.	30.	35.

** - Less 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: GRSM0222

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	19	0	0.00	10	0	0.00	9	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	22	0	0.00	10	0	0.00	12	0	0.00						
00400	PH	Other-Hi Lim.	9.	20	0	0.00	10	0	0.00	10	0	0.00						
		Other-Lo Lim.	6.5	20	10	0.50	10	6	0.60	10	4	0.40						
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	6	0	0.00	2	0	0.00	4	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	6	0	0.00	2	0	0.00	4	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	6	0	0.00	2	0	0.00	4	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	6	0	0.00	2	0	0.00	4	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	5	4	0.80	2	2	1.00	3	2	0.67						
		Drinking Water	1300.	5	0	0.00	2	0	0.00	3	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	5	2	0.40	2	0	0.00	3	2	0.67						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	22	9	0.41	10	2	0.20	12	7	0.58						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	21	7	0.33	10	1	0.10	11	6	0.55						

& - 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: GRSM0223

NPS Station ID: GRSM0223
LAT/LON: 35.733616/ -83.520281
Agency: 112WRD
Date Created: / /
Location: WP L PIGEON R AT GATLINBURG TENN
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03469400
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010107
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010107014
RF1 Mile Point: 8.370
Distance from RF1: 1.30
On/Off RF1: OFF
RF3 Index: 06010107001700.05
RF3 Mile Point: 0.05
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0223

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/06/67-08/01/68	3	16.	16.	19.	13.	9.	3.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	09/06/67-08/01/68	4	74.5	91.5	146.	71.	1323.	36.373	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	09/06/67-08/01/68	4	5.	5.	5.	5.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/06/67-08/01/68	4	40.	39.	49.	27.	84.667	9.201	**	**	**	**
00400	PH (STANDARD UNITS)	09/06/67-08/01/68	4	6.7	6.725	6.8	6.7	0.002	0.05	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/06/67-08/01/68	4	6.7	6.723	6.8	6.7	0.003	0.05	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/06/67-08/01/68	4	0.2	0.189	0.2	0.158	0.	0.021	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/06/67-08/01/68	4	12.	11.	12.	8.	4.	2.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/06/67-08/01/68	4	15.	13.75	15.	10.	6.25	2.5	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/06/67-08/01/68	4	13.5	12.75	15.	9.	6.917	2.63	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/06/67-08/01/68	4	1.5	1.75	3.	1.	0.917	0.957	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/06/67-08/01/68	4	5.	4.7	5.1	3.7	0.453	0.673	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/06/67-08/01/68	4	0.3	0.275	0.5	0.	0.043	0.206	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/06/67-08/01/68	4	1.85	1.8	2.	1.5	0.06	0.245	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/06/67-08/01/68	4	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/06/67-08/01/68	4	22.	22.	24.	20.	3.333	1.826	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/06/67-08/01/68	4	0.7	0.775	1.	0.7	0.023	0.15	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/06/67-08/01/68	4	2.	2.25	3.	2.	0.25	0.5	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/06/67-08/01/68	4	2.5	2.75	4.	2.	0.917	0.957	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/06/67-08/01/68	4	5.7	5.775	6.9	4.8	1.169	1.081	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	02/01/68-08/01/68	3	40.	36.667	50.	20.	233.333	15.275	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/06/67-08/01/68	4	26.	28.	38.	22.	48.	6.928	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/06/67-08/01/68	4	6.27	6.785	10.2	4.4	6.64	2.577	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/06/67-08/01/68	4	0.04	0.04	0.05	0.03	0.	0.008	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/06/67-08/01/68	4	1.8	1.75	2.7	0.7	0.73	0.854	**	**	**	**

** - Less 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: GRSM0223

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	4	0	0.00	1	0	0.00	3	0	0.00						
		Other-Lo Lim.	6.5	4	0	0.00	1	0	0.00	3	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	4	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

EPA Water Quality Criteria Analysis for Station: GRSM0223

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	4	0	0.00	1	0	0.00	3	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	4	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: GRSM0224

NPS Station ID: GRSM0224
LAT/LON: 35.736671/ -83.414449
Agency: 21TNWQ
Date Created: 09/11/82
Location: LITTLE PIGEON R 25.4 QUAD 165NW
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): LPIGEONIS03
RMI-Indexes: 1021500 007720 00920 9300 1120
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 652.10 027.40 025.40
HUC: 06010107
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER
Elevation: 0
Water Body Id:
Minor Basin: FRENCH BROAD RIVER
ECO Region:
RF1 Index: 06010107021
RF1 Mile Point: 2.310
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010107042000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.06
On/Off RF3:
Description:
D/S OF HWY 73 BRIDGE
WQ LIB INDEX NO. AW0.03

Parameter Inventory for Station: GRSM0224

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: GRSM0225

NPS Station ID: GRSM0225
LAT/LON: 35.736671/ -83.414449
Agency: 21TNWQ
Date Created: 09/11/82
Location: WALDEN CREEK 3.4 QUAD 156SE
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): LPIGEONIS18
RMI-Indexes: 1021500 007720 00920 9300 1120 0220 0280
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 652.10 027.40 005.10 007.90 03.40
HUC: 06010107
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER
Elevation: 0
Water Body Id:
Minor Basin: FRENCH BROAD RIVER
ECO Region:
RF1 Index: 06010107021
RF1 Mile Point: 2.310
Distance from RF1: 10.60
On/Off RF1: OFF
RF3 Index: 06010201083900.00
RF3 Mile Point: 1.46
Distance from RF3: 0.27
On/Off RF3:
Description:
100 YDS ABOVE W.C. CAMPGROUND WQ LIB INDEX NO. AW0.03

Parameter Inventory for Station: GRSM0225

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/15/81-08/13/81	4	18.75	17.925	26.2	8.	56.489	7.516	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/15/81-08/13/81	5	8.8	9.1	10.2	8.7	0.39	0.624	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	04/15/81-08/13/81	5	1.	1.	1.	1.	0.	0.	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	04/15/81-08/13/81	5	5.	6.8	14.	5.	16.2	4.025	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/15/81-08/13/81	5	7.8	7.74	8.1	7.2	0.113	0.336	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/15/81-08/13/81	5	7.8	7.622	8.1	7.2	0.13	0.361	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/15/81-08/13/81	5	0.016	0.024	0.063	0.008	0.	0.022	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/15/81-08/13/81	5	0.04	0.044	0.08	0.02	0.001	0.023	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/15/81-08/13/81	5	0.44	0.688	2.3	0.06	0.84	0.916	**	**	**	**
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	04/15/81-08/13/81	5	0.4	0.44	1.	0.1	0.113	0.336	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/15/81-08/13/81	5	0.04	0.16	0.49	0.03	0.04	0.2	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/13/81-08/13/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/13/81-08/13/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/13/81-08/13/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/13/81-08/13/81	1	395.	395.	395.	395.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/13/81-08/13/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/13/81-08/13/81	1	36.	36.	36.	36.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	08/13/81-08/13/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/13/81-08/13/81	1	7.	7.	7.	7.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/13/81-08/13/81	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: GRSM0225

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	5	0	0.00				5	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	5	0	0.00				5	0	0.00						
		Other-Lo Lim.	6.5	5	0	0.00				5	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	5	0	0.00				5	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						

& - 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: GRSM0225

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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	5.	1	1	1.00				1	1	1.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00				1	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0226

NPS Station ID: GRSM0226
LAT/LON: 35.736948/ -83.414449
Agency: 21TNWQ
Date Created: 09/11/82
Location: LITTLE PIGEON R 25.5 QUAD 165NW
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): LPIGEONIS20
RMI-Indexes: 1021500 007720 00920 9300 1120
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 652.10 027.40 025.50
HUC: 06010107
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER
Elevation: 0
Water Body Id:
Minor Basin: FRENCH BROAD RIVER
ECO Region:
RF1 Index: 06010107021
RF1 Mile Point: 2.310
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010107001006.44
RF3 Mile Point: 6.44
Distance from RF3: 0.01
On/Off RF3:
Description:
GREAT SMOKY MOUNTAIN NAT'L PARK BOUNDARY NEAR GREENBRIAR RANGER STATION WQ LIB INDEX NO. AW0.03

Parameter Inventory for Station: GRSM0226

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/30/81-08/13/81	3	19.8	19.4	23.9	14.5	22.21	4.713	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/30/81-08/13/81	3	9.1	9.2	9.7	8.8	0.21	0.458	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	05/30/81-08/13/81	3	1.	1.	1.	1.	0.	0.	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	05/30/81-08/13/81	3	5.	5.	5.	5.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	05/30/81-08/13/81	3	6.9	6.9	7.1	6.7	0.04	0.2	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	05/30/81-08/13/81	3	6.9	6.87	7.1	6.7	0.041	0.203	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/30/81-08/13/81	3	0.126	0.135	0.2	0.079	0.004	0.061	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/30/81-08/13/81	3	0.02	0.027	0.04	0.02	0.	0.012	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/30/81-08/13/81	3	0.28	0.353	0.62	0.16	0.057	0.239	**	**	**	**
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	05/30/81-08/13/81	3	0.7	0.567	0.7	0.3	0.053	0.231	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/30/81-08/13/81	3	0.01	0.02	0.04	0.01	0.	0.017	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/13/81-08/13/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/13/81-08/13/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/13/81-08/13/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/13/81-08/13/81	1	280.	280.	280.	280.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/13/81-08/13/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/13/81-08/13/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	08/13/81-08/13/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/13/81-08/13/81	1	15.	15.	15.	15.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/13/81-08/13/81	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: GRSM0226

Parameter				Total	Exceed	Prop.	10/01-3/31			4/01-9/30			n/a			n/a		
		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	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						
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						

& - 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: GRSM0226

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
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	5.	1	1	1.00				1	1	1.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00				1	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0227

NPS Station ID: GRSM0227 LAT/LON: 35.738892/ -83.416392 Agency: 112WRD Date Created: / /
Location: LITTLE PIGEON R NR PITTMAN CENTER TENN FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 03469100
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 06010107 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010107021 RF1 Mile Point: 2.060 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010107002802.65 RF3 Mile Point: 3.74 Distance from RF3: 0.06 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0227

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	09/25/68-09/25/68	1	44.	44.	44.	44.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	09/25/68-09/25/68	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/68-09/25/68	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/25/68-09/25/68	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/25/68-09/25/68	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/25/68-09/25/68	1	3.162	3.162	3.162	3.162	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/25/68-09/25/68	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/25/68-09/25/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/25/68-09/25/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/25/68-09/25/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/68-09/25/68	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/68-09/25/68	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/25/68-09/25/68	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/25/68-09/25/68	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/25/68-09/25/68	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/25/68-09/25/68	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/25/68-09/25/68	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/25/68-09/25/68	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/25/68-09/25/68	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/25/68-09/25/68	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/25/68-09/25/68	1	10.	10.	10.	10.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/25/68-09/25/68	1	24.	24.	24.	24.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/25/68-09/25/68	1	17.	17.	17.	17.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/25/68-09/25/68	1	2.85	2.85	2.85	2.85	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/25/68-09/25/68	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/25/68-09/25/68	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0227

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						

& - 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: GRSM0228

NPS Station ID: GRSM0228
LAT/LON: 35.739448/ -83.356670
Agency: 21TNWQ
Date Created: 09/11/82
Location: NORTON BRANCH 0.0 QUAD 157NE
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): LPIGEONIS14
RMI-Indexes: 1021500 007720 00920 9300 1120 0220 0700
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 652.10 027.40 005.10 003.00 00.00
HUC: 06010107
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER
Elevation: 0
Water Body Id:
Minor Basin: FRENCH BROAD RIVER
ECO Region:
RF1 Index: 06010107
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010107001500.00
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:
WQ LIB INDEX NO. AW0.03

Parameter Inventory for Station: GRSM0228

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/06/81-05/06/81	1	15.5	15.5	15.5	15.5	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/06/81-05/06/81	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	05/06/81-05/06/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	05/06/81-05/06/81	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	05/06/81-05/06/81	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	05/06/81-05/06/81	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/06/81-05/06/81	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/06/81-05/06/81	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/06/81-05/06/81	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	05/06/81-05/06/81	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/06/81-05/06/81	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRSM0228

			Total	Exceed	Prop.	10/01-3/31			4/01-9/30			n/a			n/a		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	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						

& - 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: GRSM0229

NPS Station ID: GRSM0229
LAT/LON: 35.748615/ -83.200838
Agency: 131TVAC
Date Created: 03/03/84
Location: TRIBUTARY TO PIGEON RIVER 13.6
FIPS State/County: 47029 TENNESSEE/COCKE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 476494
RMI-Indexes: 1021500 007720 00920 9300 2520 0400
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 652.10 073.80 013.60 013.42
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin: FRENCH BROAD RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: COSBY CREEK 13.42
ECO Region:
RF1 Index: 06010106008
RF1 Mile Point: 5.290
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010106001100.00
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0229

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/13/83-05/15/85	7	8.	7.943	15.1	0.5	18.436	4.294	**	**	**	**
00065	STAGE, STREAM (FEET)	08/10/84-06/08/85	39	1.19	2.201	11.08	1.03	3.484	1.867	1.04	1.08	3.15	3.6
00080	COLOR (PLATINUM-COBALT UNITS)	12/13/83-05/15/85	51	10.	13.039	32.	1.	65.838	8.114	4.	7.	20.	25.6
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	12/13/83-05/15/85	51	16.	21.686	60.	2.	245.06	15.654	6.2	9.	32.	50.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	12/13/83-05/15/85	7	20.	19.286	22.	16.	3.571	1.89	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/22/84-06/08/85	70	19.	20.943	29.	15.	22.142	4.705	16.	17.	25.25	28.9
00300	OXYGEN, DISSOLVED MG/L	12/13/83-08/28/84	4	10.4	10.6	11.6	10.	0.487	0.698	**	**	**	**
00400	PH (STANDARD UNITS)	12/13/83-05/15/85	7	5.93	5.926	6.5	5.	0.227	0.477	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/13/83-05/15/85	7	5.93	5.648	6.5	5.	0.318	0.564	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/13/83-05/15/85	7	1.175	2.251	10.	0.316	11.888	3.448	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	12/13/83-06/08/85	71	6.3	6.32	6.9	5.6	0.128	0.358	5.8	6.	6.7	6.7
00403	CONVERTED PH, LAB, STANDARD UNITS	12/13/83-06/08/85	71	6.3	6.177	6.9	5.6	0.149	0.386	5.8	6.	6.7	6.7
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/13/83-06/08/85	71	0.501	0.665	2.512	0.126	0.303	0.551	0.2	0.2	1.	1.585
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/13/83-06/08/85	71	1.	1.461	3.	0.25	0.403	0.635	0.5	1.	2.	2.
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	12/13/83-05/15/85	51 ##	0.02	0.02	0.02	0.02	0.	0.	0.02	0.02	0.02	0.02
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/15/84-05/15/84	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	12/13/83-05/15/85	51	1.5	1.767	4.4	0.7	0.683	0.826	0.82	1.2	2.1	3.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/13/83-05/15/85	51	1.6	1.684	2.1	1.3	0.061	0.247	1.4	1.5	2.	2.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/13/83-05/15/85	51	0.5	0.563	0.7	0.4	0.01	0.098	0.42	0.5	0.7	0.7
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/13/83-05/15/85	51	0.56	0.591	0.84	0.46	0.007	0.086	0.492	0.53	0.65	0.722
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/13/83-05/15/85	51	0.55	0.562	0.87	0.29	0.017	0.131	0.422	0.47	0.67	0.74
00946	SULFATE, DISSOLVED (MG/L AS SO4)	12/13/83-05/15/85	51	3.	3.002	4.2	2.1	0.224	0.473	2.42	2.6	3.3	3.6
00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/13/83-05/15/85	51 ##	0.01	0.011	0.05	0.01	0.	0.006	0.01	0.01	0.01	0.01
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/19/84-06/08/85	50	25.	57.36	1100.	10.	23521.623	153.368	15.1	19.75	50.	70.
32023	ACIDS, STRONG	12/13/83-05/15/85	51 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
32024	ACIDS, WEAK	12/13/83-05/15/85	51	140.	262.549	670.	80.	47131.373	217.098	102.	110.	530.	640.
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	12/13/83-05/15/84	3	5.	5.333	6.	5.	0.333	0.577	**	**	**	**
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	12/13/83-05/15/85	51	0.01	0.012	0.05	0.005	0.	0.01	0.005	0.005	0.01	0.03
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	12/13/83-05/15/85	51	3.6	3.575	5.4	2.	0.843	0.918	2.52	2.7	4.5	4.8
82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	12/13/83-05/15/85	51	400.	427.451	500.	300.	4831.373	69.508	300.	400.	500.	500.

** - Less 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: GRSM0229

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	4	0	0.00	2	0	0.00	2	0	0.00						
00400	PH	Other-Hi Lim.	9.	7	0	0.00	4	0	0.00	3	0	0.00						
		Other-Lo Lim.	6.5	7	7	1.00	4	4	1.00	3	3	1.00						
00403	PH, LAB	Other-Hi Lim.	9.	71	0	0.00	31	0	0.00	40	0	0.00						
		Other-Lo Lim.	6.5	71	46	0.65	31	25	0.81	40	21	0.53						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	51	0	0.00	31	0	0.00	20	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	51	0	0.00	31	0	0.00	20	0	0.00						
82295	CHLORIDE DISSOLVED AS CL IN WATER	Fresh Acute	860000.	51	0	0.00	31	0	0.00	20	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: GRSM0230

NPS Station ID: GRSM0230
LAT/LON: 35.750005/ -83.116670
Agency: 1114PEST
Date Created: 07/12/80
Location: PIGEON RIVER EXPOSURE RISK STUDY
FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370122A /PR-1 PIG
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin: FRENCH BROAD RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: PIGEON RIVER AT NEW HEPCO BRIDGE
ECO Region:
RF1 Index: 06010106010
RF1 Mile Point: 2.560
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010106002004.77
RF3 Mile Point: 8.12
Distance from RF3: 0.19
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0230

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	06/05/80-06/05/80	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00721	CYANIDE IN BOTTOM DEPOSITS (MG/KG AS CN DRY WGT)	06/05/80-06/05/80	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	06/05/80-06/05/80	1	32.	32.	32.	32.	0.	0.	**	**	**	**
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/05/80-06/05/80	1	1200.	1200.	1200.	1200.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/05/80-06/05/80	1	4800.	4800.	4800.	4800.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/05/80-06/05/80	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/05/80-06/05/80	1	46.	46.	46.	46.	0.	0.	**	**	**	**
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	06/05/80-06/05/80	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	06/05/80-06/05/80	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	06/05/80-06/05/80	1	48.	48.	48.	48.	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/05/80-06/05/80	1	124.	124.	124.	124.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/05/80-06/05/80	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/05/80-06/05/80	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/05/80-06/05/80	1	26.	26.	26.	26.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	06/05/80-06/05/80	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/05/80-06/05/80	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/05/80-06/05/80	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/05/80-06/05/80	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/05/80-06/05/80	1	300.	300.	300.	300.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/05/80-06/05/80	1	94.	94.	94.	94.	0.	0.	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	06/05/80-06/05/80	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	06/05/80-06/05/80	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/05/80-06/05/80	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/05/80-06/05/80	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/05/80-06/05/80	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01082	STRONTIUM, TOTAL (UG/L AS SR)	06/05/80-06/05/80	1	64.	64.	64.	64.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	06/05/80-06/05/80	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/05/80-06/05/80	1	34.	34.	34.	34.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/05/80-06/05/80	1	59.	59.	59.	59.	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: GRSM0230

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01097	ANTIMONY, TOTAL (UG/L AS SB)	06/05/80-06/05/80	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01102	TIN, TOTAL (UG/L AS SN)	06/05/80-06/05/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	06/05/80-06/05/80	1	950.	950.	950.	950.	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/05/80-06/05/80	1	13000.	13000.	13000.	13000.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	06/05/80-06/05/80	1 ##	20.	20.	20.	20.	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01152	TITANIUM, TOTAL (UG/L AS TI)	06/05/80-06/05/80	1	43.	43.	43.	43.	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/05/80-06/05/80	1	1328.	1328.	1328.	1328.	0.	0.	**	**	**	**
01162	ZIRCONIUM, TOTAL (UG/L AS ZR)	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01163	ZIRCONIUM IN BOTTOM DEPOSITS (MG/KG AS ZR DRY WT)	06/05/80-06/05/80	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/05/80-06/05/80	1	20700.	20700.	20700.	20700.	0.	0.	**	**	**	**
01203	YTTRIUM, TOTAL (UG/L AS Y)	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32103	1,2-DICHLOROETHANE,WHOLE WATER,UG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32104	BROMOFORM,WHOLE WATER,UG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32106	CHLOROFORM,WHOLE WATER,UG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	06/05/80-06/05/80	1	16.	16.	16.	16.	0.	0.	**	**	**	**
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34200	ACENAPHTHYLENE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34203	ACENAPHTHYLENE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34205	ACENAPHTHENE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34208	ACENAPHTHENE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34210	ACROLEIN TOTWUG/L	06/05/80-06/05/80	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
34215	ACRYLONITRILE TOTWUG/L	06/05/80-06/05/80	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
34220	ANTHRACENE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34223	ANTHRACENE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34230	BENZO(B)FLUORANTHENE,WHOLE WATER,UG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34233	BENZO(B)FLUORANTHENE,SEDIMENTS,DRY WGT,UG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34242	BENZO(K)FLUORANTHENE, TOTAL, WATER UG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34245	BENZO(K)FLUORANTHENE, DRY WT, SEDIMENT UG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34247	BENZO-A-PYRENE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34250	BENZO-A-PYRENE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34257	B-BHC-BETA DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	06/05/80-06/05/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
34273	BIS (2-CHLOROETHYL) ETHER TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34276	BIS (2-CHLOROETHYL) ETHER DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34278	BIS (2-CHLOROETHOXY) METHANE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34281	BIS (2-CHLOROETHOXY) METHANE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34283	BIS (2-CHLOROISOPROPYL) ETHER TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34286	BIS (2-CHLOROISOPROPYL) ETHER DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34295	N-BUTYL BENZYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34301	CHLOROBENZENE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34306	CHLORODIBROMOMETHANE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34311	CHLOROETHANE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34320	CHRYSENE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34336	DIETHYL PHTHALATE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34339	DIETHYL PHTHALATE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34341	DIMETHYL PHTHALATE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34344	DIMETHYL PHTHALATE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34346	1,2-DIPHENYLHYDRAZINE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34349	1,2-DIPHENYLHYDRAZINE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34351	ENDOSULFAN SULFATE TOTWUG/L	06/05/80-06/05/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34354	ENDOSULFAN SULFATE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
34356	ENDOSULFAN, BETA TOTWUG/L	06/05/80-06/05/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
34361	ENDOSULFAN, ALPHA TOTWUG/L	06/05/80-06/05/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34364	ENDOSULFAN, ALPHA DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**

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Parameter Inventory for Station: GRSM0230

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34366	ENDRIN ALDEHYDE TOTWUG/L	06/05/80-06/05/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34369	ENDRIN ALDEHYDE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
34371	ETHYLBENZENE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34376	FLUORANTHENE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34379	FLUORANTHENE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34381	FLUORENE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34384	FLUORENE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34386	HEXACHLOROCYCLOPENTADIENE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34389	HEXACHLOROCYCLOPENTADIENE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34396	HEXACHLOROETHANE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34399	HEXACHLOROETHANE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34403	INDENO (1,2,3-CD) PYRENE TOTWUG/L	06/05/80-06/05/80	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
34406	INDENO (1,2,3-CD) PYRENE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34411	ISOPHORONE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34413	METHYL BROMIDE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34418	METHYL CHLORIDE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34423	METHYLENE CHLORIDE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34428	N-NITROSODI-N-PROPYLAMINE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34431	N-NITROSODI-N-PROPYLAMINE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34433	N-NITROSODIPHENYLAMINE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34436	N-NITROSODIPHENYLAMINE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34445	NAPHTHALENE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34447	NITROBENZENE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34450	NITROBENZENE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34452	PARACHLOROMETA CRESOL TOTWUG/L	06/05/80-06/05/80	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
34455	PARACHLOROMETA CRESOL DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34461	PHENANTHRENE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34464	PHENANTHRENE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34469	PYRENE TOTWUG/L	06/05/80-06/05/80	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
34472	PYRENE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34475	TETRACHLOROETHYLENE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34488	TRICHLOROFLUOROMETHANE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34496	1,1-DICHLOROETHANE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34501	1,1-DICHLOROETHYLENE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34506	1,1,1-TRICHLOROETHANE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34511	1,1,2-TRICHLOROETHANE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE TOTWUG/L	06/05/80-06/05/80	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
34524	BENZO(GHI)PERYLENE1,12-BENZOPERYLENDRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34536	1,2-DICHLOROBENZENE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34539	1,2-DICHLOROBENZENE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34541	1,2-DICHLOROPROPANE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34551	1,2,4-TRICHLOROBENZENE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34554	1,2,4-TRICHLOROBENZENE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34556	1,2,5,6-DIBENZANTHRACENE TOTWUG/L	06/05/80-06/05/80	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
34559	1,2,5,6-DIBENZANTHRACENE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34561	1,3-DICHLOROPROPENE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34566	1,3-DICHLOROBENZENE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34569	1,3-DICHLOROBENZENE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34571	1,4-DICHLOROBENZENE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34574	1,4-DICHLOROBENZENE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34576	2-CHLOROETHYL VINYL ETHER TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34581	2-CHLORONAPHTHALENE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34584	2-CHLORONAPHTHALENE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34586	2-CHLOROPHENOL TOTWUG/L	06/05/80-06/05/80	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
34589	2-CHLOROPHENOL DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34591	2-NITROPHENOL TOTWUG/L	06/05/80-06/05/80	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
34594	2-NITROPHENOL DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34596	DI-N-OCTYL PHTHALATE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34599	DI-N-OCTYL PHTHALATE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34601	2,4-DICHLOROPHENOL TOTWUG/L	06/05/80-06/05/80	1 ##	12.5	12.5	12.5	12.5	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: GRSM0230

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34604	2,4-DICHLOROPHENOL DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34606	2,4-DIMETHYLPHENOL TOTWUG/L	06/05/80-06/05/80	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
34609	2,4-DIMETHYLPHENOL DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34611	2,4-DINITROTOLUENE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34614	2,4-DINITROTOLUENE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34616	2,4-DINITROPHENOL TOTWUG/L	06/05/80-06/05/80	1 ##	125.	125.	125.	125.	0.	0.	**	**	**	**
34619	2,4-DINITROPHENOL DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34621	2,4,6-TRICHLOROPHENOL TOTWUG/L	06/05/80-06/05/80	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
34624	2,4,6-TRICHLOROPHENOL DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34626	2,6-DINITROTOLUENE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34629	2,6-DINITROTOLUENE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34631	3,3'-DICHLOROBENZIDINE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34634	3,3'-DICHLOROBENZIDINE DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34636	4-BROMOPHENYL PHENYL ETHER TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34639	4-BROMOPHENYL PHENYL ETHER DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34641	4-CHLOROPHENYL PHENYL ETHER TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34644	4-CHLOROPHENYL PHENYL ETHER DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34646	4-NITROPHENOL TOTWUG/L	06/05/80-06/05/80	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
34649	4-NITROPHENOL DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34657	DNOC (4,6-DINITRO-ORTHO-CRESOL) TOTWUG/L	06/05/80-06/05/80	1 ##	125.	125.	125.	125.	0.	0.	**	**	**	**
34660	DNOC (4,6-DINITRO-ORTHO-CRESOL) DRY WGTBOTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34668	DICHLORODIFUOROMETHANE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34671	PCB - 1016 TOTWUG/L	06/05/80-06/05/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTWUG/L	06/05/80-06/05/80	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
34695	PHENOL(C6H5OH)-SINGLE COMPOUND DRY WGTTUG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
34696	NAPHTHALENE TOTWUG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE UG/L	06/05/80-06/05/80	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	06/05/80-06/05/80	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39102	BIS(2-ETHYLHEXYL) PHTHALATE,SEDIMENT,DRY WGT,UG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
39110	DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39112	DI-N-BUTYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39121	BENZIDINE IN BOTTOM DEPOS UG/KG DRY SOLIDS	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE-UG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/05/80-06/05/80	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/05/80-06/05/80	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/05/80-06/05/80	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/05/80-06/05/80	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	06/05/80-06/05/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	06/05/80-06/05/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	06/05/80-06/05/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	06/05/80-06/05/80	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	06/05/80-06/05/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	06/05/80-06/05/80	1 ##	45.	45.	45.	45.	0.	0.	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	06/05/80-06/05/80	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/05/80-06/05/80	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	06/05/80-06/05/80	1 ##	35.	35.	35.	35.	0.	0.	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	06/05/80-06/05/80	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	06/05/80-06/05/80	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	06/05/80-06/05/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	06/05/80-06/05/80	1 ##	20.	20.	20.	20.	0.	0.	**	**	**	**

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Parameter Inventory for Station: GRSM0230

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	06/05/80-06/05/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	06/05/80-06/05/80	1 ##	20.	20.	20.	20.	0.	0.	**	**	**	**
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	06/05/80-06/05/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	06/05/80-06/05/80	1 ##	20.	20.	20.	20.	0.	0.	**	**	**	**
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	06/05/80-06/05/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	06/05/80-06/05/80	1 ##	20.	20.	20.	20.	0.	0.	**	**	**	**
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	06/05/80-06/05/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	06/05/80-06/05/80	1 ##	35.	35.	35.	35.	0.	0.	**	**	**	**
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	06/05/80-06/05/80	1 ##	0.075	0.075	0.075	0.075	0.	0.	**	**	**	**
39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	06/05/80-06/05/80	1 ##	35.	35.	35.	35.	0.	0.	**	**	**	**
39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	06/05/80-06/05/80	1 ##	20.	20.	20.	20.	0.	0.	**	**	**	**
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
39702	HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE(UG/L)	06/05/80-06/05/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39705	HEXACHLOROBUTADIENE BOT. DEPOS.(UG/KG DRY WGT)	06/05/80-06/05/80	1 ##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
45513	TELLURIUM IN SEDIMENT (MG/KG AS TE DRY WT)	06/05/80-06/05/80	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
45514	YTTRIUM IN SEDIMENT (MG/KG AS YTTRIUM DRY WT)	06/05/80-06/05/80	1	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
70320	MOISTURE CONTENT (PERCENT OF TOTAL WET WEIGHT)	06/05/80-06/05/80	1	28.	28.	28.	28.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	06/05/80-06/05/80	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/05/80-06/05/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	06/05/80-06/05/80	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRSM0230

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00720	CYANIDE, TOTAL	Fresh Acute	0.022	1	0	0.00				1	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00				1	0	0.00						
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00				1	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	0 &	0	0.00												
		Drinking Water	5.	0 &	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	5.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00				1	0	0.00						
01097	ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00				1	0	0.00						
		Drinking Water	10.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	0 &	0	0.00												
		Drinking Water	50.	1	0	0.00				1	0	0.00						
32101	BROMODICHLOROMETHANE, WHOLE WATER	Drinking Water	100.	1	0	0.00				1	0	0.00						
32102	CARBON TETRACHLORIDE, WHOLE WATER	Fresh Acute	35200.	1	0	0.00				1	0	0.00						
		Drinking Water	5.	0 &	0	0.00												
32103	1,2-DICHLOROETHANE,WHOLE WATER	Fresh Acute	118000.	1	0	0.00				1	0	0.00						
		Drinking Water	5.	0 &	0	0.00												
32104	BROMOFORM, WHOLE WATER	Drinking Water	100.	1	0	0.00				1	0	0.00						
32106	CHLOROFORM, WHOLE WATER	Fresh Acute	28900.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE E	Fresh Acute	17500.	1	0	0.00				1	0	0.00						
		Drinking Water	1000.	1	0	0.00				1	0	0.00						
34205	ACENAPHTHENE, TOTAL	Fresh Acute	1700.	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: GRSM0230

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
34210	ACROLEIN, TOTAL	Fresh Acute	68.	1	0	0.00				1	0	0.00						
34215	ACRYLONITRILE, TOTAL	Fresh Acute	7550.	1	0	0.00				1	0	0.00						
34301	CHLOROBENZENE, TOTAL	Drinking Water	100.	1	0	0.00				1	0	0.00						
34306	CHLORODIBROMOMETHANE, TOTAL	Drinking Water	100.	1	0	0.00				1	0	0.00						
34346	1,2-DIPHENYLHYDRAZINE, TOTAL	Fresh Acute	270.	1	0	0.00				1	0	0.00						
34356	ENDOSULFAN, BETA, TOTAL	Fresh Acute	0.22	1	0	0.00				1	0	0.00						
34361	ENDOSULFAN, ALPHA, TOTAL	Fresh Acute	0.22	1	0	0.00				1	0	0.00						
34371	ETHYLBENZENE, TOTAL	Fresh Acute	32000.	1	0	0.00				1	0	0.00						
		Drinking Water	700.	1	0	0.00				1	0	0.00						
34376	FLUORANTHENE, TOTAL	Fresh Acute	3980.	1	0	0.00				1	0	0.00						
34386	HEXACHLOROCYCLOPENTADIENE	Fresh Acute	7.	1	0	0.00				1	0	0.00						
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL	Drinking Water	50.	1	0	0.00				1	0	0.00						
34396	HEXACHLOROETHANE, TOTAL	Fresh Acute	980.	1	0	0.00				1	0	0.00						
34403	IDENO (1,2,3-CD) PYRENE	Drinking Water	0.4	0 &	0	0.00												
34423	METHYLENE CHLORIDE, TOTAL	Drinking Water	5.	0 &	0	0.00												
34447	NITROBENZENE, TOTAL	Fresh Acute	27000.	1	0	0.00				1	0	0.00						
34452	PARACHLOROMETA CRESOL, TOTAL	Fresh Acute	30.	1	0	0.00				1	0	0.00						
34461	PHENANTHRENE, TOTAL	Fresh Acute	30.	1	0	0.00				1	0	0.00						
34475	TETRACHLOROETHYLENE, TOTAL	Fresh Acute	5280.	1	0	0.00				1	0	0.00						
		Drinking Water	5.	0 &	0	0.00												
34501	1,1-DICHLOROETHYLENE, TOTAL	Drinking Water	7.	1	0	0.00				1	0	0.00						
34506	1,1,1-TRICHLOROETHANE, TOTAL	Drinking Water	200.	1	0	0.00				1	0	0.00						
34511	1,1,2-TRICHLOROETHANE, TOTAL	Drinking Water	5.	0 &	0	0.00												
34536	1,2-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00				1	0	0.00						
34541	1,2-DICHLOROPROPANE, TOTAL	Drinking Water	5.	0 &	0	0.00												
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATE	Drinking Water	100.	1	0	0.00				1	0	0.00						
34551	1,2,4-TRICHLOROBENZENE, TOTAL	Drinking Water	9.	1	0	0.00				1	0	0.00						
34566	1,3-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00				1	0	0.00						
34571	1,4-DICHLOROBENZENE, TOTAL	Drinking Water	75.	1	0	0.00				1	0	0.00						
34586	2-CHLOROPHENOL, TOTAL	Fresh Acute	4380.	1	0	0.00				1	0	0.00						
34601	2,4-DICHLOROPHENOL, TOTAL	Fresh Acute	2020.	1	0	0.00				1	0	0.00						
34606	2,4-DIMETHYLPHENOL, TOTAL	Fresh Acute	2120.	1	0	0.00				1	0	0.00						
34611	2,4-DINITROTOLUENE, TOTAL	Fresh Acute	330.	1	0	0.00				1	0	0.00						
34694	PHENOL (C6H5OH) - SINGLE COMPOUND, TOTAL	Fresh Acute	10200.	1	0	0.00				1	0	0.00						
34696	NAPHTHALENE, TOTAL	Fresh Acute	2300.	1	0	0.00				1	0	0.00						
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMP	Fresh Acute	20.	1	0	0.00				1	0	0.00						
		Drinking Water	1.	0 &	0	0.00												
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	Fresh Acute	400.	1	0	0.00				1	0	0.00						
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE	Drinking Water	2.	0 &	0	0.00												
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE	Fresh Acute	45000.	1	0	0.00				1	0	0.00						
		Drinking Water	5.	0 &	0	0.00												
39300	P,P' DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	1	0	0.00				1	0	0.00						
39310	P,P' DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	1	0	0.00				1	0	0.00						
39320	P,P' DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	1	0	0.00				1	0	0.00						
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	1	0	0.00				1	0	0.00						
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	1	0	0.00				1	0	0.00						
		Drinking Water	0.2	1	0	0.00				1	0	0.00						
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	1	0	0.00				1	0	0.00						
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	1	0	0.00				1	0	0.00						
		Drinking Water	0.2	1	0	0.00				1	0	0.00						
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	1	0	0.00				1	0	0.00						
		Drinking Water	3.	1	0	0.00				1	0	0.00						
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00				1	0	0.00						
		Drinking Water	0.4	1	0	0.00				1	0	0.00						
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00				1	0	0.00						
		Drinking Water	0.2	1	0	0.00				1	0	0.00						

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

EPA Water Quality Criteria Analysis for Station: GRSM0230

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	Drinking Water	1.	0 &	0	0.00												
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	Fresh Acute	6.	1	0	0.00				1	0	0.00						
39702	HEXACHLOROBUTADIENE IN WHOLE WATER SAMPL	Fresh Acute	90.	1	0	0.00				1	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0231

NPS Station ID: GRSM0231
LAT/LON: 35.750005/ -83.116670
Agency: 1114PEST
Date Created: 12/06/80
Location: PIGEON RIVER EXPOSURE RISK STUDY
FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 370122B /PR-2 PIG
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin: FRENCH BROAD RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: FISH TISSUE SAMPLES FROM WATERVILLE LAKE
ECO Region:
RF1 Index: 06010106010
RF1 Mile Point: 2.560
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010106002700.00
RF3 Mile Point: 0.06
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0231

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	06/09/80-06/09/80	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
32734	PHENOLICS,TISSUE,WET WEIGHT,MG/KG	06/09/80-06/09/80	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
34204	ACENAPHTHYLENE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34209	ACENAPHTHENE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34224	ANTHRACENE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34234	BENZO(B)FLUORANTHENE,TISSUE,WET WGT,MG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34241	BENZIDINE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
34246	BENZO(K)FLUORANTHENE, WET WT, TISSUE MG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34251	BENZO-A-PYRENE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34252	BERYLLIUM WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34258	B-BHC-BETA WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
34272	BIS (CHLOROMETHYL) ETHER WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34277	BIS (2-CHLOROETHYL) ETHER WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34282	BIS (2-CHLOROETHOXY) METHANE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34287	BIS (2-CHLOROISOPROPYL) ETHER WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34296	N-BUTYL BENZYL PHTHALATE,TISSUE,WET WGT,MG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34324	CHRYSENE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34326	CYANIDE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34340	DIETHYL PHTHALATE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34345	DIMETHYL PHTHALATE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34350	1,2-DIPHENYLHYDRAZINE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34355	ENDOSULFAN SULFATE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34360	ENDOSULFAN, BETA WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
34365	ENDOSULFAN, ALPHA WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
34370	ENDRIN ALDEHYDE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34380	FLUORANTHENE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34385	FLUORENE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34390	HEXACHLOROCYCLOPENTADIENE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34395	HEXACHLOROBUTADIENE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34400	HEXACHLOROETHANE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34407	INDENO (1,2,3-CD) PYRENE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34412	ISOPHORONE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
34432	N-NITROSODI-N-PROPYLAMINE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
34437	N-NITROSODIPHENYLAMINE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34442	N-NITROSODIMETHYLAMINE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34446	NAPHTHALENE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34451	NITROBENZENE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRSM0231

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34456	PARACHLOROMETA CRESOL WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34465	PHENANTHRENE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34468	PHENOL WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34473	PYRENE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34474	SILVER WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34525	BENZO(GHI)PERYLENE1,12-BENZOPERYLENWET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34530	BENZO(A)ANTHRACENE1,2-BENZANTHRACENWET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34540	1,2-DICHLOROBENZENE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34555	1,2,4-TRICHLOROBENZENE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34560	1,2,5,6-DIBENZANTHRACENE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34570	1,3-DICHLOROBENZENE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34575	1,4-DICHLOROBENZENE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34585	2-CHLORONAPHTHALENE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34590	2-CHLOROPHENOL WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34595	2-NITROPHENOL WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34600	DI-N-OCTYL PHTHALATE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34605	2,4-DICHLOROPHENOL WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34610	2,4-DIMETHYLPHENOL WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34615	2,4-DINITROTOLUENE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34620	2,4-DINITROPHENOL WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	40.	40.	40.	40.	0.	0.	**	**	**	**
34625	2,4,6-TRICHLOROPHENOL WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34630	2,6-DINITROTOLUENE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34635	3,3'-DICHLOROBENZIDINE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34640	4-BROMOPHENYL PHENYL ETHER WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34645	4-CHLOROPHENYL PHENYL ETHER WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34650	4-NITROPHENOL WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
34661	DNOC (4,6-DINITRO-ORTHO-CRESOL) WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34664	PCB - 1221 WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34667	PCB - 1232 WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34669	PCB - 1248 WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34670	PCB - 1260 WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34674	PCB - 1016 WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	06/09/80-06/09/80	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	06/09/80-06/09/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34683	DI-N-BUTYL PHTHALATE,TISSUE,WET WGTWET WGT	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34685	ENDRIN WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
34687	HEPTACHLOR WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
34688	HEXACHLOROBENZENE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34689	PCB - 1242 WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34690	PCB - 1254 WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34691	TOXAPHENE WET WGTTISMG/KG	06/09/80-06/09/80	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	06/09/80-06/09/80	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39099	BIS(2-ETHYLHEXYL)PHTHALATE,TISSUE,WET WGT,MG/KG	06/09/80-06/09/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39302	P P DDT IN TISSUE WET WGT (UG/G)	06/09/80-06/09/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39312	P P DDD IN TISSUE WET WGT (UG/G)	06/09/80-06/09/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	06/09/80-06/09/80	1 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	06/09/80-06/09/80	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	06/09/80-06/09/80	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	06/09/80-06/09/80	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	06/09/80-06/09/80	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	06/09/80-06/09/80	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	06/09/80-06/09/80	1	23.	23.	23.	23.	0.	0.	**	**	**	**
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	06/09/80-06/09/80	1	4.9	4.9	4.9	4.9	0.	0.	**	**	**	**
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	06/09/80-06/09/80	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

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

Station Inventory for Station: GRSM0232

NPS Station ID: GRSM0232
LAT/LON: 35.758337/ -83.398060
Agency: 21TNWQ
Date Created: 09/11/82
Location: LITTLE PIGEON R 23.0 QUAD 164SW
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): LPIGEONIS04
RMI-Indexes: 1021500 007720 00920 9300 1120
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 652.10 027.40 023.00
HUC: 06010107
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER
Elevation: 0
Water Body Id:
Minor Basin: FRENCH BROAD RIVER
ECO Region:
RF1 Index: 06010107021
RF1 Mile Point: 0.100
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010107002101.71
RF3 Mile Point: 3.06
Distance from RF3: 0.06
On/Off RF3:
Description:
100 YDS D/S OF MOUTH OF WEBB CR
WQ LIB INDEX NO. AW0.03

Parameter Inventory for Station: GRSM0232

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: GRSM0233

NPS Station ID: GRSM0233
LAT/LON: 35.759170/ -83.363060
Agency: 21TNWQ
Date Created: 09/11/82
Location: WEBB CR 2.5 QUAD 164SE
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): LPIGEONIS08
RMI-Indexes: 1021500 007720 00920 9300 1120 1430
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 652.10 027.40 023.05 002.50
HUC: 06010107
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER
Elevation: 0
Water Body Id:
Minor Basin: FRENCH BROAD RIVER
ECO Region:
RF1 Index: 06010107024
RF1 Mile Point: 2.300
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010107050300.00
RF3 Mile Point: 0.43
Distance from RF3: 0.11
On/Off RF3:
Description:
1/4 MI D/S OF COBBLY KNOB WWTP
WQ LIB INDEX NO. AW0.03

Parameter Inventory for Station: GRSM0233

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: GRSM0234

NPS Station ID: GRSM0234
LAT/LON: 35.759448/ -83.398337
Agency: 21TNWQ
Date Created: 09/11/82
Location: WEBB CR 0.0 QUAD 164SW
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): LPIGEONIS25
RMI-Indexes: 1021500 007720 00920 9300 1120 1430
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 652.10 027.40 023.05 000.00
HUC: 06010107
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER
Elevation: 0
Water Body Id:
Minor Basin: FRENCH BROAD RIVER
ECO Region:
RF1 Index: 06010107021
RF1 Mile Point: 0.100
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010107002401.77
RF3 Mile Point: 3.39
Distance from RF3: 0.04
On/Off RF3:
Description:
WQ LIB INDEX NO. AW0.03

Parameter Inventory for Station: GRSM0234

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/15/81-08/13/81	5	20.	18.86	25.2	8.5	43.688	6.61	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/15/81-08/13/81	5	9.	9.	10.2	7.7	0.815	0.903	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	04/15/81-08/13/81	5	1.	1.	1.	1.	0.	0.	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	04/15/81-08/13/81	5	5.	5.	5.	5.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/15/81-08/13/81	5	7.6	7.5	7.7	7.2	0.055	0.235	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/15/81-08/13/81	5	7.6	7.448	7.7	7.2	0.058	0.242	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/15/81-08/13/81	5	0.025	0.036	0.063	0.02	0.	0.02	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/15/81-08/13/81	5	0.03	0.034	0.06	0.02	0.	0.015	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/15/81-08/13/81	5	0.28	0.336	0.58	0.2	0.026	0.16	**	**	**	**
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	04/15/81-08/13/81	5	0.4	0.58	1.1	0.2	0.157	0.396	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/15/81-08/13/81	5	0.05	0.066	0.14	0.02	0.002	0.049	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/23/81-08/13/81	2	1.	1.	1.	1.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/23/81-08/13/81	2	1.	1.	1.	1.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/23/81-08/13/81	2	2.5	2.5	3.	2.	0.5	0.707	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	07/23/81-08/13/81	2	255.	255.	320.	190.	8450.	91.924	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	07/23/81-08/13/81	2	10.	10.	10.	10.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/23/81-08/13/81	2	15.5	15.5	18.	13.	12.5	3.536	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/23/81-08/13/81	2	10.	10.	10.	10.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/23/81-08/13/81	2	4.	4.	6.	2.	8.	2.828	**	**	**	**

** - Less 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: GRSM0234

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	5	0	0.00				5	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	5	0	0.00				5	0	0.00						
		Other-Lo Lim.	6.5	5	0	0.00				5	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	5	0	0.00				5	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00				2	0	0.00						
		Drinking Water	5.	2	0	0.00				2	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	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: GRSM0234

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00				2	0	0.00						
		Drinking Water	1300.	2	0	0.00				2	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00				2	0	0.00						
		Drinking Water	5.	2	2	1.00				2	2	1.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00				2	0	0.00						
		Drinking Water	100.	2	0	0.00				2	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00				2	0	0.00						

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

Station Inventory for Station: GRSM0235

NPS Station ID: GRSM0235
LAT/LON: 35.759448/ -83.398616
Agency: 21TNWQ
Date Created: 09/11/82
Location: WEBB CR 0.06 QUAD 164SW
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): LPIGEONIS09
RMI-Indexes: 1021500 007720 00920 9300 1120 1430
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 652.10 027.40 023.05 000.06
HUC: 06010107
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER
Elevation: 0
Water Body Id:
Minor Basin: FRENCH BROAD RIVER
ECO Region:
RF1 Index: 06010107021
RF1 Mile Point: 0.100
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010107002401.77
RF3 Mile Point: 2.55
Distance from RF3: 0.03
On/Off RF3:
Description:
WQ LIB INDEX NO. AW0.03

Parameter Inventory for Station: GRSM0235

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: GRSM0236

NPS Station ID: GRSM0236
LAT/LON: 35.759726/ -83.359170
Agency: 21TNWQ
Date Created: 09/11/82
Location: WEBB CR 2.3 QUAD 164SE
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): LPIGEONIS24
RMI-Indexes: 1021500 007720 00920 9300 1120 1430
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 652.10 027.40 023.05 002.30
HUC: 06010107
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER
Elevation: 0
Water Body Id:
Minor Basin: FRENCH BROAD RIVER
ECO Region:
RF1 Index: 06010107024
RF1 Mile Point: 2.500
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010107002401.77
RF3 Mile Point: 1.81
Distance from RF3: 0.03
On/Off RF3:
Description:
WQ LIB INDEX NO. AW0.03

Parameter Inventory for Station: GRSM0236

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/15/81-08/13/81	6	18.45	17.35	23.8	8.	36.015	6.001	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/15/81-08/13/81	6	8.6	8.683	10.5	7.4	1.266	1.125	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	04/15/81-08/13/81	6	1.	1.133	1.6	1.	0.059	0.242	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	04/15/81-08/13/81	6	6.	6.667	11.	5.	5.067	2.251	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/15/81-08/13/81	6	7.4	7.383	7.5	7.2	0.01	0.098	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/15/81-08/13/81	6	7.4	7.373	7.5	7.2	0.01	0.099	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/15/81-08/13/81	6	0.04	0.042	0.063	0.032	0.	0.011	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/15/81-08/13/81	6	0.12	0.287	0.88	0.03	0.121	0.347	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/15/81-08/13/81	6	0.24	0.243	0.41	0.12	0.009	0.096	**	**	**	**
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	04/15/81-08/13/81	6	0.9	0.917	1.9	0.1	0.382	0.618	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/15/81-08/13/81	6	0.065	0.088	0.21	0.04	0.004	0.064	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/23/81-08/13/81	2	1.	1.	1.	1.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/23/81-08/13/81	2	1.	1.	1.	1.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/23/81-08/13/81	2	2.	2.	3.	1.	2.	1.414	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	07/23/81-08/13/81	2	340.	340.	470.	210.	33800.	183.848	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	07/23/81-08/13/81	2	10.	10.	10.	10.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/23/81-08/13/81	2	28.5	28.5	34.	23.	60.5	7.778	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/23/81-08/13/81	2	10.	10.	10.	10.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/23/81-08/13/81	2	5.5	5.5	7.	4.	4.5	2.121	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/13/81-08/13/81	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: GRSM0236

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	6	0	0.00				6	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	6	0	0.00				6	0	0.00						
		Other-Lo Lim.	6.5	6	0	0.00				6	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	6	0	0.00				6	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00				2	0	0.00						
		Drinking Water	5.	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: GRSM0236

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00				2	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00				2	0	0.00						
		Drinking Water	1300.	2	0	0.00				2	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00				2	0	0.00						
		Drinking Water	5.	2	2	1.00				2	2	1.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00				2	0	0.00						
		Drinking Water	100.	2	0	0.00				2	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00				2	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0237

NPS Station ID: GRSM0237 | LAT/LON: 35.760837/ -83.210004 | Agency: 12NSS | Date Created: 10/22/88
Location: COSBY CREEK | FIPS State/County: 47029 TENNESSEE/COCKE
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): 2A07891L /SI02A07891L
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 06010106 | Depth of Water: 0 | Aquifer:
Major Basin: | Elevation: 756 | Water Body Id:
Minor Basin: | ECO Region:
RF1 Index: 06010106 | RF1 Mile Point: 0.000 | Distance from RF1: 0.70 | On/Off RF1:
RF3 Index: 06010106000801.80 | RF3 Mile Point: 2.49 | Distance from RF3: 0.05 | On/Off RF3:
Description:
THESE DATA WERE COLLECTED DURING PHASE I OF THE NATIONAL STREAM AQUATIC EFFECTS RESEARCH PROGRAM UNDER THE NATIONAL ACID PRECIPITATION ASSESSMENT PROGRAM. THE SURVEY DESIGN, METHODS, AND DATA LIMITAITONS ARE DESCRIBED IN: SURVEY AS PART OF EPA'S NATIONAL SURFACE WATER SURVEY AND

Parameter Inventory for Station: GRSM0237

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/28/85-07/10/85	4	11.	11.675	16.	8.7	10.989	3.315	**	**	**	**
00064	DEPTH OF STREAM, MEAN (FT)	03/28/85-07/10/85	4	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	03/28/85-07/10/85	4	7.5	8.75	15.	5.	22.917	4.787	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/28/85-07/10/85	4	18.5	18.5	19.	18.	0.333	0.577	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/28/85-07/10/85	4	9.9	9.75	10.8	8.4	1.417	1.19	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/28/85-07/10/85	4	6.6	6.625	6.7	6.6	0.003	0.05	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/28/85-07/10/85	4	6.6	6.623	6.7	6.6	0.003	0.05	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/28/85-07/10/85	4	0.251	0.238	0.251	0.2	0.001	0.026	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	03/28/85-07/10/85	4	40.2	45.625	66.2	35.9	194.416	13.943	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	03/28/85-07/10/85	4	1.5	1.5	2.	1.	0.333	0.577	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/28/85-07/10/85	4	0.011	0.01	0.012	0.005	0.	0.003	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/28/85-07/10/85	4	0.4	0.4	0.5	0.3	0.013	0.115	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	03/28/85-07/10/85	4	0.7	0.7	0.9	0.5	0.033	0.183	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/28/85-07/10/85	4	1.4	1.4	1.5	1.3	0.007	0.082	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/28/85-07/10/85	4	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	03/28/85-07/10/85	4	0.72	0.742	0.84	0.69	0.005	0.068	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/28/85-07/10/85	4	0.36	0.358	0.39	0.32	0.001	0.03	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	03/28/85-07/10/85	4	0.45	0.45	0.5	0.4	0.003	0.058	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/28/85-07/10/85	4	2.3	2.425	2.9	2.2	0.103	0.32	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/28/85-07/10/85	4	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/28/85-07/10/85	4	4.6	4.75	5.7	4.1	0.563	0.751	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/28/85-07/10/85	4	0.	0.25	1.	0.	0.25	0.5	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/28/85-07/10/85	4	36.	70.25	193.	16.	6785.583	82.375	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/28/85-07/10/85	4	2.9	2.9	3.	2.8	0.007	0.082	**	**	**	**
71885	IRON (UG/L AS FE)	03/28/85-07/10/85	4	0.35	0.425	1.	0.	0.256	0.506	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/28/85-07/10/85	4	2480.	2480.	2480.	2480.	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/28/85-07/10/85	4	0.1	0.145	0.3	0.08	0.011	0.104	**	**	**	**
83509	STREAM, WIDTH METER	03/28/85-07/10/85	4	9.1	9.1	9.1	9.1	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: GRSM0237

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Fresh Acute	4.	4	0	0.00	1	0	0.00	3	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	4	0	0.00	1	0	0.00	3	0	0.00						
		Other-Lo Lim.	6.5	4	0	0.00	1	0	0.00	3	0	0.00						
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	4	4	1.00	1	1	1.00	3	3	1.00						
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	4	0	0.00	1	0	0.00	3	0	0.00						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	4	0	0.00	1	0	0.00	3	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	4	0	0.00	1	0	0.00	3	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	4	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: GRSM0238

NPS Station ID: GRSM0238
LAT/LON: 35.760837/ -83.355560
Agency: 112WRD
Date Created: 02/15/78
Location: WEBB CREEK NR PITTMAN CENTER, TN
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03469112
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010107
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010107024
RF1 Mile Point: 2.710
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010107000117.70
RF3 Mile Point: 21.23
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0238

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/16/76-11/16/76	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	11/16/76-11/16/76	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/16/76-11/16/76	1	42.	42.	42.	42.	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

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

Station Inventory for Station: GRSM0239

NPS Station ID: GRSM0239
LAT/LON: 35.760837/ -83.355560
Agency: 21TNWQ
Date Created: 09/11/82
Location: WEBB CR 3.6 QUAD 164SW
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): LPIGEONIS22
RMI-Indexes: 1021500 007720 00920 9300 1120 1430
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 652.10 027.40 023.05 003.60
HUC: 06010107
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER
Elevation: 0
Water Body Id:
Minor Basin: FRENCH BROAD RIVER
ECO Region:
RF1 Index: 06010107024
RF1 Mile Point: 2.710
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010107002001.68
RF3 Mile Point: 1.96
Distance from RF3: 0.09
On/Off RF3:
Description:
100 YDS ABOVE COBBLY KNOB WWTP
WQ LIB INDEX NO. AW0.03

Parameter Inventory for Station: GRSM0239

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/15/81-08/13/81	6	18.5	17.333	23.6	8.	35.111	5.925	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/15/81-08/13/81	6	8.75	8.767	10.2	7.5	0.939	0.969	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	04/15/81-08/13/81	6	1.	1.	1.	1.	0.	0.	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	04/15/81-08/13/81	6	5.5	6.333	10.	5.	3.867	1.966	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/15/81-08/13/81	6	7.45	7.433	8.	7.	0.115	0.339	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/15/81-08/13/81	6	7.447	7.337	8.	7.	0.126	0.355	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/15/81-08/13/81	6	0.036	0.046	0.1	0.01	0.001	0.031	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/15/81-08/13/81	6	0.055	0.073	0.16	0.02	0.004	0.059	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/15/81-08/13/81	6	0.2	0.225	0.4	0.14	0.009	0.095	**	**	**	**
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	04/15/81-08/13/81	6	0.4	0.65	1.9	0.1	0.455	0.675	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/15/81-08/13/81	6	0.045	0.048	0.07	0.03	0.	0.015	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/23/81-08/13/81	2	1.	1.	1.	1.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/23/81-08/13/81	2	1.	1.	1.	1.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/23/81-08/13/81	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	07/23/81-08/13/81	2	205.	205.	230.	180.	1250.	35.355	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	07/23/81-08/13/81	2	10.	10.	10.	10.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/23/81-08/13/81	2	18.	18.	20.	16.	8.	2.828	**	**	**	**
01061	MOLYBDENUM, SUSPENDED (UG/L AS MO)	07/23/81-07/23/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	08/13/81-08/13/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/23/81-08/13/81	2	6.	6.	6.	6.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/13/81-08/13/81	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: GRSM0239

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	6	0	0.00				6	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	6	0	0.00				6	0	0.00						
		Other-Lo Lim.	6.5	6	0	0.00				6	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	6	0	0.00				6	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00				2	0	0.00						
		Drinking Water	5.	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: GRSM0239

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00				2	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00				2	0	0.00						
		Drinking Water	1300.	2	0	0.00				2	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00				2	0	0.00						
		Drinking Water	5.	2	2	1.00				2	2	1.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00				2	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0240

NPS Station ID: GRSM0240
LAT/LON: 35.763059/ -83.210560
Agency: 112WRD
Date Created: / /
Location: COSBY CR NR BLUFFTON TENN
FIPS State/County: 47029 TENNESSEE/COCKE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03461180
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010106008
RF1 Mile Point: 4.000
Distance from RF1: 4.80
On/Off RF1: OFF
RF3 Index: 06010107018300.00
RF3 Mile Point: 0.00
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0240

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	09/24/68-09/24/68	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	09/24/68-09/24/68	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/24/68-09/24/68	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/24/68-09/24/68	1	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/24/68-09/24/68	1	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/24/68-09/24/68	1	2.512	2.512	2.512	2.512	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/24/68-09/24/68	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/24/68-09/24/68	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/24/68-09/24/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/24/68-09/24/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/24/68-09/24/68	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/24/68-09/24/68	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/24/68-09/24/68	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/24/68-09/24/68	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/24/68-09/24/68	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/24/68-09/24/68	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/24/68-09/24/68	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/24/68-09/24/68	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/24/68-09/24/68	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/24/68-09/24/68	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/24/68-09/24/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/24/68-09/24/68	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/24/68-09/24/68	1	10.	10.	10.	10.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/24/68-09/24/68	1	22.	22.	22.	22.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/24/68-09/24/68	1	15.	15.	15.	15.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/24/68-09/24/68	1	0.19	0.19	0.19	0.19	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/24/68-09/24/68	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/24/68-09/24/68	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0240

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						

& - 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: GRSM0241

NPS Station ID: GRSM0241
Location: WEBB CR 5.7 QUAD 164SE
Station Type: /TYPA/AMBNT/STREAM
RMI-Indexes: 1021500 007720 00920 9300 1120 1430
RMI-Miles: 0953.80 0046.50 652.10 027.40 023.05 005.70
HUC: 06010107
Major Basin: TENNESSEE RIVER
Minor Basin: FRENCH BROAD RIVER
RF1 Index: 06010107024
RF3 Index: 06010107002000.00
Description:
WQ LIB INDEX NO. AW0.03

LAT/LON: 35.764726/ -83.363060

Depth of Water: 0
Elevation: 0

RF1 Mile Point: 2.200
RF3 Mile Point: 0.43

Agency: 21TNWQ
FIPS State/County: 47155 TENNESSEE/SEVIER
STORET Station ID(s): LPIGEONIS07
Within Park Boundary: No

Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 0.00
Distance from RF3: 0.04

Date Created: 09/11/82

On/Off RF1: OFF
On/Off RF3:

Parameter Inventory for Station: GRSM0241

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: GRSM0242

NPS Station ID: GRSM0242
LAT/LON: 35.769170/ -83.527781
Agency: 131TVAC
Date Created: / /
Location: BELOW GNATTY BRANCH
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 475504 /5299
RMI-Indexes: 1021500 007720 00920 9300 1120 0220
Within Park Boundary: Yes
RMI-Miles: 0953.80 0046.50 652.10 027.40 005.10 013.00
HUC: 06010107
Depth of Water: 0
Aquifer:
Major Basin: FRENCH BROAD RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: WEST PRONG LITTLE PIGEON RIVER 13.0
ECO Region:
RF1 Index: 06010107
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010107000903.40
RF3 Mile Point: 3.59
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0242

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-08/26/68	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/23/68-08/26/68	2	96.	96.	96.	96.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/26/68-08/26/68	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	08/23/68-08/26/68	2	119500.	119500.	210000.	29000.	16380500000.	127986.327	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	08/23/68-08/26/68	2	4.892	4.892	5.322	4.462	0.37	0.608	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			78038.452								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/23/68-08/26/68	2	9300.	9300.	14000.	4600.	44180000.	6646.804	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/23/68-08/26/68	2	3.904	3.904	4.146	3.663	0.117	0.342	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			8024.961								

** - Less 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: GRSM0242

				Total	Exceed	Prop.	----------10/01-3/31----------			----------4/01-9/30----------			----------n/a----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	1	0	0.00				1	0	0.00						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	2	2	1.00				2	2	1.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	2	2	1.00				2	2	1.00						

& - 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: GRSM0243

NPS Station ID: GRSM0243
LAT/LON: 35.771671/ -83.535559
Agency: 21TNWQ
Date Created: 09/11/82
Location: W PRONG LITTLE PIGEON R 12.5 QUAD 156SE
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): LPIGEONIS01
RMI-Indexes: 1021500 007720 00920 9300 1120 0220
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 652.10 027.40 005.10 012.50
HUC: 06010107
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER
Elevation: 0
Water Body Id:
Minor Basin: FRENCH BROAD RIVER
ECO Region:
RF1 Index: 06010107014
RF1 Mile Point: 4.610
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010107002800.00
RF3 Mile Point: 0.00
Distance from RF3: 0.02
On/Off RF3:
Description:
4.0 MI D/S OF GATLINBURG WWTP
WQ LIB INDEX NO. AW0.03

Parameter Inventory for Station: GRSM0243

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: GRSM0244

NPS Station ID: GRSM0244
LAT/LON: 35.772781/ -83.094449
Agency: 21TNWQ
Date Created: / /
Location: PIGEON RIVER
FIPS State/County: 47029 TENNESSEE/COCKE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 002070 /152070 /132070
RMI-Indexes: 1021500 007720 00920 9300 2520
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 652.10 073.80 026.20
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER
Elevation: 0
Water Body Id:
Minor Basin: FRENCH BROAD RIVER
ECO Region:
RF1 Index: 06010106011
RF1 Mile Point: 0.450
Distance from RF1: 1.20
On/Off RF1: OFF
RF3 Index: 06010106000201.50
RF3 Mile Point: 4.75
Distance from RF3: 0.01
On/Off RF3:
Description:
INTERCHANGE BRIDGE 1.2 MILES DOWNSTREAM FROM WATERVILLE POWERHOUSE

Parameter Inventory for Station: GRSM0244

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/10/67-12/06/68	15	12.	12.793	24.	0.9	53.912	7.342	2.76	6.	20.	23.4
00060	FLOW, STREAM, MEAN DAILY CFS	10/10/67-12/06/68	15	1450.	1418.333	3250.	25.	481648.81	694.009	520.	1050.	1800.	2410.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/10/67-12/06/68	15	12.	18.133	128.	2.	948.981	30.806	2.	5.	14.	62.6
00080	COLOR (PLATINUM-COBALT UNITS)	10/10/67-12/06/68	15	56.	72.867	161.	5.	2204.838	46.956	10.4	47.	105.	156.8
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	10/10/67-12/06/68	14	114.	124.5	242.	38.	3572.731	59.772	42.5	81.5	172.25	222.5
00300	OXYGEN, DISSOLVED MG/L	10/10/67-12/06/68	15	7.9	7.66	10.7	3.	4.368	2.09	3.78	6.4	9.1	10.46
00310	BOD, 5 DAY, 20 DEG C MG/L	10/10/67-12/06/68	15	3.9	3.967	6.6	1.8	3.092	1.759	1.86	2.2	5.6	6.42
00403	PH, LAB, STANDARD UNITS SU	10/10/67-12/06/68	15	7.	6.973	7.9	6.5	0.139	0.373	6.56	6.7	7.1	7.66
00403	CONVERTED PH, LAB, STANDARD UNITS	10/10/67-12/06/68	15	7.	6.858	7.9	6.5	0.153	0.392	6.56	6.7	7.1	7.66
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/10/67-12/06/68	15	0.1	0.139	0.316	0.013	0.008	0.089	0.024	0.079	0.2	0.277
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/10/67-12/06/68	15	42.	40.	63.	8.	270.286	16.44	15.8	26.	59.	62.4
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	10/10/67-12/06/68	15	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	10/10/67-12/06/68	15	4.	4.267	10.	2.	8.352	2.89	2.	2.	6.	9.4
00500	RESIDUE, TOTAL (MG/L)	10/10/67-12/06/68	15	203.	212.067	461.	75.	13362.924	115.598	77.4	123.	302.	412.4
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/10/67-12/06/68	15	165.	181.533	451.	60.	12024.981	109.658	66.6	90.	248.	358.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/10/67-12/06/68	15	10.	30.533	290.	2.	5230.981	72.326	3.2	6.	24.	135.2
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/10/67-12/06/68	15 ##	0.01	0.053	0.2	0.01	0.004	0.059	0.01	0.01	0.1	0.14
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/10/67-12/06/68	15	76.	74.	150.	10.	1138.	33.734	26.2	49.	90.	124.8
00910	CALCIUM (MG/L AS CACO3)	10/10/67-12/06/68	15	59.	62.733	134.	5.	1079.21	32.851	15.2	37.	82.	116.6
00920	MAGNESIUM (MG/L AS CACO3)	10/10/67-12/06/68	15	10.	11.267	26.	0.	58.495	7.648	1.2	5.	16.	25.4
00929	SODIUM, TOTAL (MG/L AS NA)	10/10/67-12/06/68	15	22.	26.54	72.8	7.8	336.163	18.335	9.6	10.8	32.9	63.44
00937	POTASSIUM, TOTAL MG/L AS K)	10/10/67-12/06/68	15	1.5	1.773	3.2	0.1	0.926	0.962	0.34	1.2	2.8	3.14
00940	CHLORIDE,TOTAL IN WATER MG/L	10/10/67-12/06/68	15	47.	56.4	162.	20.	1526.829	39.075	20.	26.	77.	124.8
00945	SULFATE, TOTAL (MG/L AS SO4)	10/10/67-12/06/68	15	13.	15.667	37.	7.	73.524	8.575	7.6	9.	21.	31.6
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/10/67-12/06/68	15 ##	0.05	0.087	0.3	0.05	0.005	0.072	0.05	0.05	0.1	0.24
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/10/67-12/06/68	15	11.3	11.22	14.5	8.3	2.567	1.602	9.26	10.	12.7	13.6
01045	IRON, TOTAL (UG/L AS FE)	10/10/67-12/06/68	15	800.	3060.	35500.	200.	80634000.	8979.644	260.	500.	1000.	15040.
01055	MANGANESE, TOTAL (UG/L AS MN)	10/10/67-12/06/68	15	200.	198.333	1000.	25.	55845.238	236.316	25.	100.	200.	580.
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	03/13/68-12/06/68	10	60500.	190350.	980000.	3500.91	370613888.889	302275.725	4500.	14250.	305000.	917000.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	03/13/68-12/06/68	10	4.78	4.795	5.991	3.544	0.546	0.739	3.603	4.154	5.483	5.947
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			62437.714								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/13/68-12/06/68	10	100.	2964.	12000.	40.	18903182.222	4347.779	46.	100.	7225.	11560.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/13/68-12/06/68	10	2.	2.679	4.079	1.602	0.971	0.985	1.642	2.	3.859	4.059
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			477.917								
32240	TANNIN AND LIGNIN (MG/L)	10/10/67-12/06/68	15	1.3	1.813	6.3	0.4	2.488	1.577	0.46	0.6	2.4	4.68
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	12/13/67-12/13/67	1 ##	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

EPA Water Quality Criteria Analysis for Station: GRSM0244

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	15	1	0.07	8	1	0.13	7	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	15	1	0.07	8	0	0.00	7	1	0.14						
00403	PH, LAB	Other-Hi Lim.	9.	15	0	0.00	8	0	0.00	7	0	0.00						
		Other-Lo Lim.	6.5	15	1	0.07	8	0	0.00	7	1	0.14						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	15	0	0.00	8	0	0.00	7	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	15	0	0.00	8	0	0.00	7	0	0.00						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	10	10	1.00	3	3	1.00	7	7	1.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	10	4	0.40	3	1	0.33	7	3	0.43						

& - 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: GRSM0245

NPS Station ID: GRSM0245
LAT/LON: 35.774726/ -83.098337
Agency: 21TNWQ
Date Created: 02/25/84
Location: PIGEON RIVER 26.0 QUAD 173SE
FIPS State/County: 47029 TENNESSEE/COCKE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): PIGEONRIS01
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER
Elevation: 0
Water Body Id:
Minor Basin: FRENCH BROAD
ECO Region:
RF1 Index: 06010106011
RF1 Mile Point: 0.100
Distance from RF1: 3.40
On/Off RF1: OFF
RF3 Index: 06010107026800.00
RF3 Mile Point: 1.17
Distance from RF3: 0.03
On/Off RF3:
Description:
TENN DIVISION OF WATER MANAGEMENT LIBRARY FILE INDEX NO. AV0.07

Parameter Inventory for Station: GRSM0245

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/20/82-06/07/83	9	250.	376.667	810.	40.	95875.	309.637	40.	130.	755.	810.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/20/82-06/07/83	9	2.398	2.406	2.908	1.602	0.199	0.446	1.602	2.102	2.878	2.908
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			254.763								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/20/82-06/07/83	9	120.	1111.111	6700.	10.	4845311.111	2201.207	10.	25.	1400.	6700.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	10/20/82-06/07/83	9	2.079	2.213	3.826	1.	0.967	0.983	1.	1.301	3.084	3.826
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			163.333								

** - Less 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: GRSM0245

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	9	5	0.56	5	3	0.60	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: GRSM0246

NPS Station ID: GRSM0246
LAT/LON: 35.775004/ -83.100003
Agency: 11EPALES
Date Created: / /
Location: WATERVILLE LAKE HYDROELEC TUNNEL
FIPS State/County: 37000 NORTH CAROLINA/
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 3718A1 /LS3718A1
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin: O/WATERVILLE LAKE
Elevation: 0
Water Body Id:
Minor Basin: AT POWER PLANT
ECO Region:
RF1 Index: 06010106010
RF1 Mile Point: 0.100
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010204043900.00
RF3 Mile Point: 0.00
Distance from RF3: 0.05
On/Off RF3:
Description:
AT POWER PLANT NOTE SAMPLE AT POWER PLANT AT CONFLUENCE OF BIG CREEK AND PIGEON RIVER SO THAT ONLY THE WATER FROM THE TUNNEL IS BEING SAMPLED

Parameter Inventory for Station: GRSM0246

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	10	0.13	0.12	0.168	0.048	0.001	0.033	0.053	0.103	0.139	0.165
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	10	0.008	0.016	0.055	0.003	0.	0.018	0.003	0.005	0.031	0.053
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	10	0.46	0.465	0.58	0.368	0.005	0.071	0.37	0.39	0.533	0.576
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	10	0.62	0.708	1.4	0.2	0.176	0.42	0.213	0.383	1.178	1.386
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	10	0.47	0.481	0.59	0.37	0.006	0.075	0.372	0.42	0.548	0.588
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/24/74	10	0.083	0.083	0.145	0.055	0.001	0.026	0.055	0.063	0.091	0.14
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	10	0.036	0.034	0.05	0.016	0.	0.011	0.016	0.024	0.042	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: GRSM0246

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	10	0	0.00	6	0	0.00	4	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	10	0	0.00	6	0	0.00	4	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	10	0	0.00	6	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: GRSM0247

NPS Station ID: GRSM0247 | LAT/LON: 35.775004/ -83.100003 | Agency: 11EPALES | Date Created: / /
Location: WATERVILLE RESERVOIR | FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/LAKE | STORET Station ID(s): 371801
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 06010106 | Depth of Water: 135 | Aquifer:
Major Basin: | Elevation: 0 | Water Body Id:
Minor Basin: | ECO Region:
RF1 Index: 06010106010 | RF1 Mile Point: 0.100 | Distance from RF1: 0.00 | On/Off RF1: OFF
RF3 Index: 06010106002001.82 | RF3 Mile Point: 5.21 | Distance from RF3: 0.13 | On/Off RF3:
Description:
CAUTION: WIRES CROSSING CANYON JUST BELOW DAM, 250 DEGREES ABOVE DAM LEVEL. SAMPLE SITE ABOUT 300 YDS ABOVE DAM, MIDCHANNEL.
COMMENTS: 3-24 ULE 16, SLIGHTLY TURBID; NO VISIBLE ALGAE; 1% LIGHT AT 4-1/2 FT, 4.5% LIGHT AT 1 FT. 7-5 ULE 18; 1% LIGHT AT 6 FT, .2% LIGHT AT SURF; VERY BROWNISH, HUMIC COLOR; DEPTH 130 FT. 9-20 ULE 22 PLUS; VERY

Parameter Inventory for Station: GRSM0247

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/73-09/20/73	18	20.15	16.989	25.7	9.2	41.519	6.444	9.38	10.2	22.15	25.61
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	03/24/73-09/20/73	18	83.	74.728	98.	0.1	682.04	26.116	27.01	77.25	88.75	95.3
00077	TRANSPARENCY, SECCHI DISC (INCHES)	03/24/73-09/20/73	3	36.	33.333	40.	24.	69.333	8.327	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/20/73-09/20/73	5	694.	600.6	713.	267.	35944.3	189.59	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/73-07/05/73	13	250.	236.923	360.	120.	11077.244	105.248	120.	132.5	347.5	358.
00300	OXYGEN, DISSOLVED MG/L	03/24/73-09/20/73	16	3.5	4.644	10.2	0.	18.023	4.245	0.	0.675	9.95	10.2
00400	PH (STANDARD UNITS)	03/24/73-09/20/73	18	7.2	7.228	8.7	6.5	0.308	0.555	6.59	6.775	7.5	8.07
00400	CONVERTED PH (STANDARD UNITS)	03/24/73-09/20/73	18	7.189	6.99	8.7	6.5	0.368	0.606	6.59	6.775	7.5	8.07
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/73-09/20/73	18	0.065	0.102	0.316	0.002	0.009	0.093	0.009	0.032	0.169	0.258
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/24/73-09/20/73	18	31.5	33.111	68.	5.	581.516	24.115	5.	5.	61.5	64.4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/24/73-09/20/73	18	0.185	0.531	2.96	0.09	0.524	0.724	0.117	0.128	0.823	1.646
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/73-09/20/73	18	0.4	1.056	5.	0.3	1.458	1.207	0.3	0.3	1.9	2.3
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/24/73-09/20/73	18	0.635	0.557	0.8	0.07	0.031	0.176	0.322	0.455	0.663	0.755
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/73-09/20/73	18	0.082	0.094	0.244	0.057	0.002	0.044	0.058	0.064	0.112	0.134
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/24/73-09/20/73	18	0.038	0.036	0.05	0.019	0.	0.008	0.022	0.032	0.041	0.045
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	03/24/73-09/20/73	3	1.4	5.667	15.3	0.3	69.903	8.361	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	03/24/73-09/20/73	3	130.	123.	135.	104.	277.	16.643	**	**	**	**

** - Less 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: GRSM0247

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	16	9	0.56	5	0	0.00	11	9	0.82						
00400	PH	Other-Hi Lim.	9.	18	0	0.00	6	0	0.00	12	0	0.00						
		Other-Lo Lim.	6.5	18	1	0.06	6	0	0.00	12	1	0.08						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	18	0	0.00	6	0	0.00	12	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: GRSM0248

NPS Station ID: GRSM0248
LAT/LON: 35.775004/ -83.539170
Agency: 131TVAC
Date Created: / /
Location: BRIDGE SSE OF PIGEON FORGE
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 475995 /5296
RMI-Indexes: 1021500 007720 00920 9300 1120 0220
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 652.10 027.40 005.10 012.20
HUC: 06010107
Depth of Water: 0
Aquifer:
Major Basin: FRENCH BROAD RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: WEST PRONG LITTLE PIGEON RIVER 12.2
ECO Region:
RF1 Index: 06010107014
RF1 Mile Point: 4.370
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 06010107016700.00
RF3 Mile Point: 17.85
Distance from RF3: 0.07
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0248

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/74-03/18/75	14	13.3	12.6	19.2	2.	34.148	5.844	3.2	8.125	17.875	19.1
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/24/74-03/18/75	12	107.5	240.833	1040.	42.	87645.788	296.05	42.6	54.	347.5	887.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/24/74-03/18/75	14	2.3	3.821	19.	1.	24.18	4.917	1.	1.275	3.25	14.5
00080	COLOR (PLATINUM-COBALT UNITS)	04/24/74-03/18/75	14	5.	7.357	20.	5.	19.016	4.361	5.	5.	10.	16.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/74-04/24/74	1	37.	37.	37.	37.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/24/74-03/18/75	14	9.2	10.129	13.4	8.3	2.747	1.657	8.35	8.95	11.45	12.95
00310	BOD, 5 DAY, 20 DEG C MG/L	04/24/74-03/18/75	14	1.05	1.579	5.1	0.5	2.408	1.552	0.5	0.5	1.975	4.9
00400	PH (STANDARD UNITS)	04/24/74-03/18/75	14	6.4	6.293	6.7	5.4	0.108	0.329	5.65	6.225	6.425	6.65
00400	CONVERTED PH (STANDARD UNITS)	04/24/74-03/18/75	14	6.4	6.129	6.7	5.4	0.137	0.37	5.65	6.225	6.425	6.65
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/74-03/18/75	14	0.398	0.743	3.981	0.2	0.951	0.975	0.225	0.378	0.626	2.62
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/74-03/18/75	14	14.5	15.286	24.	5.	30.527	5.525	7.5	11.	19.75	23.5
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/24/74-03/18/75	14	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/24/74-03/18/75	14	3.5	4.786	21.	1.	27.874	5.28	1.	1.	5.	15.5
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	04/24/74-03/18/75	14	270.	711.786	3400.	5.	1160113.874	1077.086	7.5	37.5	800.	3135.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	04/24/74-03/18/75	14	2.431	2.287	3.531	0.699	0.744	0.863	0.849	1.571	2.897	3.495
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			193.86								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/24/74-03/18/75	14	65.	299.643	1120.	5.	181247.94	425.732	5.	5.	667.5	1080.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/24/74-03/18/75	14	1.739	1.734	3.049	0.699	0.964	0.982	0.699	0.699	2.815	3.033
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			54.242								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/24/74-03/18/75	14	30.	32.143	50.	20.	156.593	12.514	20.	20.	42.5	50.

** - Less 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: GRSM0248

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	14	0	0.00	6	0	0.00	8	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	14	0	0.00	6	0	0.00	8	0	0.00						
00400	PH	Other-Hi Lim.	9.	14	0	0.00	6	0	0.00	8	0	0.00						
		Other-Lo Lim.	6.5	14	12	0.86	6	5	0.83	8	7	0.88						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	14	3	0.21	6	0	0.00	8	3	0.38						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	14	4	0.29	6	0	0.00	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: GRSM0249

NPS Station ID: GRSM0249
LAT/LON: 35.775559/ -83.100281
Agency: 112WRD
Date Created: / /
Location: PIGEON RIVER AT WATERVILLE N C
FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03460766
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010106009
RF1 Mile Point: 12.560
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010106001202.97
RF3 Mile Point: 3.16
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0249

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/11/68-07/25/73	51	15.8	15.282	27.	1.	43.683	6.609	6.04	9.	21.	22.9
00060	FLOW, STREAM, MEAN DAILY CFS	06/27/68-07/25/73	53	1500.	1554.83	3190.	24.	743163.99	862.07	126.4	894.	2235.	2780.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/21/70-08/29/72	2 ##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	10/17/57-03/28/73	69	100.	112.42	400.	12.	5181.983	71.986	40.	60.	140.	200.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/17/57-07/25/73	101	260.	283.624	700.	61.	16294.597	127.65	138.4	191.	357.5	460.
00300	OXYGEN, DISSOLVED MG/L	06/27/68-07/25/73	30	8.15	8.03	10.6	4.3	3.304	1.818	5.73	6.525	9.625	10.47
00310	BOD, 5 DAY, 20 DEG C MG/L	08/18/69-03/28/73	22	2.8	3.436	9.5	0.3	6.646	2.578	0.76	1.575	5.025	8.
00400	PH (STANDARD UNITS)	10/17/57-07/25/73	101	6.8	6.898	7.6	6.2	0.149	0.385	6.4	6.5	7.3	7.4
00400	CONVERTED PH (STANDARD UNITS)	10/17/57-07/25/73	101	6.8	6.741	7.6	6.2	0.173	0.416	6.4	6.5	7.3	7.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/17/57-07/25/73	101	0.158	0.181	0.631	0.025	0.022	0.149	0.04	0.05	0.316	0.398
00405	CARBON DIOXIDE (MG/L AS CO2)	03/28/73-05/16/73	2	6.35	6.35	11.	1.7	43.245	6.576	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/27/68-06/27/73	31	34.	36.613	80.	16.	213.578	14.614	22.4	25.	45.	59.8
00440	BICARBONATE ION (MG/L AS HCO3)	10/17/57-06/27/73	79	41.	43.911	98.	15.	266.595	16.328	24.	34.	53.	70.
00445	CARBONATE ION (MG/L AS CO3)	06/27/68-05/16/73	16	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)	10/29/70-10/29/70	1	379.	379.	379.	379.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/21/70-08/29/72	2	6.5	6.5	7.	6.	0.5	0.707	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/29/72-03/28/73	2	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/27/68-07/21/70	2	0.06	0.06	0.11	0.01	0.005	0.071	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/11/68-03/23/71	11	0.02	0.157	1.4	0.	0.172	0.415	0.	0.	0.07	1.15
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/29/72-03/28/73	2	0.062	0.062	0.071	0.052	0.	0.013	**	**	**	**
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	08/29/72-08/29/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/17/57-03/28/73	74	57.	59.635	124.	16.	550.29	23.458	33.	43.5	72.75	92.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/17/57-03/28/73	74	21.5	24.486	68.	0.	216.198	14.704	8.	13.75	32.	45.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/17/57-03/28/73	74	20.	20.964	47.	4.6	77.931	8.828	10.5	15.	26.	33.5
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/17/57-03/28/73	74	1.6	1.78	8.3	0.7	1.259	1.122	1.	1.2	1.9	2.45
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/17/57-03/28/73	74	28.	30.424	72.	6.8	211.347	14.538	13.	20.75	38.25	53.
00931	SODIUM ADSORPTION RATIO	06/27/68-03/28/73	15	1.6	1.713	2.9	0.7	0.371	0.609	0.88	1.4	2.2	2.72
00932	SODIUM, PERCENT	06/27/68-03/28/73	15	49.	49.	56.	44.	15.143	3.891	44.6	46.	52.	56.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/17/57-03/28/73	74	1.75	1.919	7.5	0.9	1.027	1.013	1.05	1.3	2.125	3.
00940	CHLORIDE,TOTAL IN WATER MG/L	10/17/57-03/28/73	74	50.	52.905	133.	10.	685.813	26.188	22.5	32.75	67.25	89.5
00945	SULFATE, TOTAL (MG/L AS SO4)	10/17/57-03/28/73	74	15.	16.203	38.	4.	48.438	6.96	8.	11.	20.25	26.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/17/57-03/28/73	74	0.2	0.192	0.4	0.	0.009	0.095	0.1	0.1	0.3	0.3
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/17/57-03/28/73	74	9.3	9.268	13.	6.4	1.464	1.21	7.8	8.4	10.	11.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	07/21/70-08/29/72	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/21/70-07/21/70	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/21/70-08/29/72	2	10.	10.	20.	0.	200.	14.142	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/17/57-08/28/69	49	240.	275.714	1000.	0.	39404.167	198.505	60.	115.	440.	510.
01046	IRON, DISSOLVED (UG/L AS FE)	06/27/68-03/28/73	14	100.	100.074	260.	0.03	4914.533	70.104	2.515	47.25	138.25	215.5

** - 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: GRSM0249

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01049	LEAD, DISSOLVED (UG/L AS PB)	07/21/70-08/29/72	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/21/70-07/21/70	1	22.	22.	22.	22.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/21/70-08/29/72	2	13.5	13.5	23.	4.	180.5	13.435	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/28/69-08/28/69	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/21/70-08/29/72	2	50.	50.	67.	33.	578.	24.042	**	**	**	**
01501	ALPHA, TOTAL	11/23/71-11/23/71	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
01502	ALPHA, TOTAL, COUNTING ERROR	11/23/71-11/23/71	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01503	ALPHA, DISSOLVED	11/23/71-11/23/71	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01504	ALPHA, DISSOLVED, COUNTING ERROR	11/23/71-11/23/71	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01505	ALPHA, SUSPENDED	11/23/71-11/23/71	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
01506	ALPHA, SUSPENDED, COUNTING ERROR	11/23/71-11/23/71	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
03501	BETA, TOTAL	04/28/70-11/23/71	4	4.	3.75	5.	2.	2.25	1.5	**	**	**	**
03502	BETA, TOTAL, COUNTING ERROR	11/23/71-11/23/71	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
03503	BETA, DISSOLVED	11/23/71-11/23/71	1	3.	3.	3.	3.	0.	0.	**	**	**	**
03504	BETA, DISSOLVED, COUNTING ERROR	11/23/71-11/23/71	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
03505	BETA, SUSPENDED	11/23/71-11/23/71	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
03506	BETA, SUSPENDED, COUNTING ERROR	11/23/71-11/23/71	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
13501	STRONTIUM 90, TOTAL	11/23/71-11/23/71	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
15501	STRONTIUM 89, TOTAL	11/23/71-11/23/71	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/28/71-07/25/73	18	2900.	3798.333	15900.	200.	16222285.294	4027.69	290.	867.5	4500.	10140.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/28/71-07/25/73	18	3.462	3.333	4.201	2.301	0.283	0.532	2.46	2.918	3.653	4.
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			2151.556								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/23/71-09/29/71	2	225.	225.	350.	100.	31250.	176.777	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/23/71-09/29/71	2	2.272	2.272	2.544	2.	0.148	0.385	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			187.083								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/21/70-08/29/72	2	0.5	0.5	1.	0.	0.5	0.707	**	**	**	**
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	09/11/68-03/28/73	27	0.14	0.153	0.65	0.	0.02	0.143	0.	0.05	0.19	0.328
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	07/02/70-07/02/70	1	25.	25.	25.	25.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/17/57-03/28/73	74	170.5	183.	390.	36.	5540.767	74.436	91.5	131.25	228.5	289.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/27/68-03/28/73	15	158.	182.933	329.	45.	7128.21	84.429	69.	134.	247.	327.8
70302	SOLIDS, DISSOLVED-TONS PER DAY	06/27/68-03/28/73	14	865.5	850.059	1670.01	11.7	218609.081	467.557	55.4	529.5	1167.5	1510.005
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/27/68-03/28/73	15	0.25	0.285	0.53	0.05	0.017	0.132	0.098	0.22	0.37	0.512
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/17/57-09/17/62	48	0.7	0.742	2.2	0.1	0.177	0.42	0.29	0.4	1.	1.31
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/17/61-03/28/73	37	0.8	1.016	3.8	0.2	0.625	0.79	0.38	0.45	1.4	2.14
71885	IRON (UG/L AS FE)	10/17/61-09/16/63	23	310.	313.913	730.	0.	33424.901	182.825	74.	180.	430.	564.
71900	MERCURY, TOTAL (UG/L AS HG)	03/23/71-03/23/71	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0249

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	2	0	0.00				2	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	30	0	0.00	10	0	0.00	20	0	0.00						
00400	PH	Other-Hi Lim.	9.	101	0	0.00	47	0	0.00	54	0	0.00						
		Other-Lo Lim.	6.5	101	26	0.26	47	20	0.43	54	6	0.11						
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	1	0	0.00	1	0	0.00						
00720	CYANIDE, TOTAL	Fresh Acute	0.022	1	0	0.00				1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	74	0	0.00	37	0	0.00	37	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	74	0	0.00	37	0	0.00	37	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						
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00				1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	1	0.50				2	1	0.50						
		Drinking Water	1300.	2	0	0.00				2	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	2	0	0.00				2	0	0.00						
		Drinking Water	5.	2	0	0.00				2	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	2	0	0.00				2	0	0.00						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	18	14	0.78	7	5	0.71	11	9	0.82						

& - 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: GRSM0249

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	2	1	0.50	1	0	0.00	1	1	1.00						
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	48	0	0.00	24	0	0.00	24	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	37	0	0.00	19	0	0.00	18	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

Annual Analysis for 1957 - Station GRSM0249

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00080	COLOR (PLATINUM-COBALT UNITS)	10/17/57-03/28/73	3	80.	86.667	110.	70.	433.333	20.817	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/17/57-07/25/73	3	199.	207.	250.	172.	1569.	39.611	**	**	**	**
00400	PH (STANDARD UNITS)	10/17/57-07/25/73	3	6.5	6.733	7.2	6.5	0.163	0.404	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/17/57-07/25/73	3	6.5	6.635	7.2	6.5	0.178	0.422	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/17/57-07/25/73	3	0.316	0.232	0.316	0.063	0.021	0.146	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/17/57-06/27/73	3	37.	38.333	41.	37.	5.333	2.309	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/17/57-03/28/73	3	45.	44.	52.	35.	73.	8.544	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/17/57-03/28/73	3	15.	12.667	18.	5.	46.333	6.807	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/17/57-03/28/73	3	17.	16.	19.	12.	13.	3.606	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/17/57-03/28/73	3	1.2	1.167	1.5	0.8	0.123	0.351	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/17/57-03/28/73	3	19.	20.333	24.	18.	10.333	3.215	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/17/57-03/28/73	3	1.	1.033	1.1	1.	0.003	0.058	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/17/57-03/28/73	3	32.	34.	44.	26.	84.	9.165	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/17/57-03/28/73	3	10.	11.333	14.	10.	5.333	2.309	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/17/57-03/28/73	3	0.1	0.067	0.1	0.	0.003	0.058	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/17/57-03/28/73	3	7.	7.6	8.9	6.9	1.27	1.127	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/17/57-08/28/69	3	100.	100.	140.	60.	1600.	40.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/17/57-03/28/73	3	126.	130.	155.	109.	541.	23.259	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/17/57-09/17/62	3	0.8	0.867	1.	0.8	0.013	0.115	**	**	**	**

** - Less 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 1958 - Station GRSM0249

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00080	COLOR (PLATINUM-COBALT UNITS)	10/17/57-03/28/73	9	100.	117.778	200.	55.	2988.194	54.664	55.	77.5	180.	200.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/17/57-07/25/73	9	217.	233.222	434.	112.	10621.694	103.062	112.	151.	306.	434.
00400	PH (STANDARD UNITS)	10/17/57-07/25/73	9	6.6	6.633	7.2	6.3	0.11	0.332	6.3	6.3	6.95	7.2
00400	CONVERTED PH (STANDARD UNITS)	10/17/57-07/25/73	9	6.6	6.537	7.2	6.3	0.12	0.347	6.3	6.3	6.95	7.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/17/57-07/25/73	9	0.251	0.29	0.501	0.063	0.032	0.177	0.063	0.113	0.501	0.501
00440	BICARBONATE ION (MG/L AS HCO3)	10/17/57-06/27/73	9	40.	47.667	95.	24.	455.5	21.342	24.	34.	59.	95.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/17/57-03/28/73	9	45.	51.667	85.	28.	332.5	18.235	28.	38.	67.	85.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/17/57-03/28/73	9	13.	12.667	21.	4.	32.5	5.701	4.	8.	17.5	21.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/17/57-03/28/73	9	16.	18.067	31.	8.6	48.54	6.967	8.6	13.	23.5	31.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/17/57-03/28/73	9	1.7	1.756	2.6	1.	0.31	0.557	1.	1.3	2.25	2.6
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/17/57-03/28/73	9	23.	27.333	63.	11.	246.25	15.692	11.	17.5	34.5	63.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/17/57-03/28/73	9	1.3	1.722	3.1	1.2	0.519	0.721	1.2	1.3	2.3	3.1
00940	CHLORIDE,TOTAL IN WATER MG/L	10/17/57-03/28/73	9	36.	42.	85.	16.	479.5	21.897	16.	27.	59.	85.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/17/57-03/28/73	9	11.	10.778	22.	5.	24.444	4.944	5.	7.5	12.5	22.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/17/57-03/28/73	9	0.2	0.178	0.3	0.1	0.007	0.083	0.1	0.1	0.25	0.3
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/17/57-03/28/73	9	10.	10.411	13.	8.4	2.129	1.459	8.4	9.4	11.5	13.
01045	IRON, TOTAL (UG/L AS FE)	10/17/57-08/28/69	9	250.	238.889	470.	60.	21661.111	147.177	60.	95.	365.	470.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/17/57-03/28/73	9	135.	157.778	299.	81.	4506.194	67.128	81.	119.5	202.	299.
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/17/57-09/17/62	9	1.	0.967	1.4	0.5	0.092	0.304	0.5	0.75	1.25	1.4

** - 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 1959 - Station GRSM0249

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00080	COLOR (PLATINUM-COBALT UNITS)	10/17/57-03/28/73	3	80.	86.667	120.	60.	933.333	30.551	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/17/57-07/25/73	3	185.	197.667	238.	170.	1276.333	35.726	**	**	**	**
00400	PH (STANDARD UNITS)	10/17/57-07/25/73	3	6.7	6.733	6.8	6.7	0.003	0.058	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/17/57-07/25/73	3	6.7	6.731	6.8	6.7	0.003	0.058	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/17/57-07/25/73	3	0.2	0.186	0.2	0.158	0.001	0.024	**	**	**	**

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Annual Analysis for 1959 - Station GRSM0249

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00440	BICARBONATE ION (MG/L AS HCO3)	10/17/57-06/27/73	3	35.	36.	39.	34.	7.	2.646	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/17/57-03/28/73	3	40.	39.	41.	36.	7.	2.646	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/17/57-03/28/73	3	9.	10.	13.	8.	7.	2.646	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/17/57-03/28/73	3	15.	14.333	15.	13.	1.333	1.155	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/17/57-03/28/73	3	0.9	0.967	1.2	0.8	0.043	0.208	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/17/57-03/28/73	3	21.	21.	23.	19.	4.	2.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/17/57-03/28/73	3	1.5	3.4	7.5	1.2	12.63	3.554	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/17/57-03/28/73	3	32.	33.667	42.	27.	58.333	7.638	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/17/57-03/28/73	3	12.	12.333	14.	11.	2.333	1.528	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/17/57-03/28/73	3	0.2	0.233	0.3	0.2	0.003	0.058	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/17/57-03/28/73	3	9.3	9.267	11.	7.5	3.063	1.75	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/17/57-08/28/69	3	190.	296.667	540.	160.	44633.333	211.266	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/17/57-03/28/73	3	133.	130.	142.	115.	189.	13.748	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/17/57-09/17/62	3	0.3	0.6	1.3	0.2	0.37	0.608	**	**	**	**

** - Less 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 GRSM0249

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00080	COLOR (PLATINUM-COBALT UNITS)	10/17/57-03/28/73	9	100.	126.667	250.	40.	6775.	82.31	40.	55.	220.	250.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/17/57-07/25/73	12	300.	292.25	480.	130.	11345.114	106.513	132.4	209.	378.75	456.
00400	PH (STANDARD UNITS)	10/17/57-07/25/73	12	6.85	6.975	7.5	6.5	0.122	0.349	6.53	6.7	7.375	7.47
00400	CONVERTED PH (STANDARD UNITS)	10/17/57-07/25/73	12	6.847	6.862	7.5	6.5	0.136	0.369	6.53	6.7	7.375	7.47
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/17/57-07/25/73	12	0.142	0.138	0.316	0.032	0.009	0.093	0.034	0.042	0.2	0.297
00440	BICARBONATE ION (MG/L AS HCO3)	10/17/57-06/27/73	12	42.5	42.	64.	19.	174.727	13.218	20.2	34.5	52.5	61.3
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/17/57-03/28/73	12	67.5	61.833	96.	28.	437.424	20.915	29.2	44.5	78.75	91.2
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/17/57-03/28/73	12	27.5	27.417	50.	12.	141.538	11.897	12.3	15.5	32.	48.2
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/17/57-03/28/73	12	21.5	21.542	35.	9.5	58.248	7.632	9.95	15.5	26.75	33.5
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/17/57-03/28/73	12	1.65	2.017	7.3	0.9	2.938	1.714	0.93	1.2	2.	5.77
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/17/57-03/28/73	12	29.5	30.75	52.	12.	158.932	12.607	12.6	21.75	43.	49.9
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/17/57-03/28/73	12	1.95	1.758	2.5	0.9	0.27	0.52	0.99	1.25	2.15	2.47
00940	CHLORIDE,TOTAL IN WATER MG/L	10/17/57-03/28/73	12	55.	55.417	96.	22.	552.447	23.504	22.6	35.	75.5	91.8
00945	SULFATE, TOTAL (MG/L AS SO4)	10/17/57-03/28/73	12	16.	15.833	30.	8.	36.152	6.013	8.	11.75	17.75	27.6
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/17/57-03/28/73	12	0.2	0.175	0.3	0.	0.009	0.097	0.03	0.1	0.275	0.3
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/17/57-03/28/73	12	9.95	10.067	12.	8.4	0.833	0.913	8.7	9.625	10.75	11.7
01045	IRON, TOTAL (UG/L AS FE)	10/17/57-08/28/69	12	370.	360.833	1000.	40.	68390.152	261.515	55.	117.5	467.5	853.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/17/57-03/28/73	12	205.	193.	316.	87.	4926.182	70.187	87.6	137.25	238.75	301.3
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/17/57-09/17/62	12	0.4	0.458	0.9	0.3	0.032	0.178	0.3	0.3	0.575	0.81

** - Less 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 GRSM0249

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00080	COLOR (PLATINUM-COBALT UNITS)	10/17/57-03/28/73	12	130.	120.	190.	40.	2709.091	52.049	43.	65.	170.	187.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/17/57-07/25/73	12	277.5	262.417	429.	87.	12535.356	111.961	101.4	149.75	354.75	417.9
00400	PH (STANDARD UNITS)	10/17/57-07/25/73	12	6.95	6.883	7.4	6.2	0.167	0.409	6.26	6.5	7.275	7.4
00400	CONVERTED PH (STANDARD UNITS)	10/17/57-07/25/73	12	6.947	6.71	7.4	6.2	0.2	0.447	6.26	6.5	7.275	7.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/17/57-07/25/73	12	0.113	0.195	0.631	0.04	0.034	0.184	0.04	0.053	0.316	0.561
00440	BICARBONATE ION (MG/L AS HCO3)	10/17/57-06/27/73	12	42.5	38.75	56.	15.	149.477	12.226	18.3	29.	46.5	55.4
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/17/57-03/28/73	12	56.	55.167	80.	21.	386.333	19.655	24.9	36.	75.	79.4
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/17/57-03/28/73	12	25.	23.25	42.	8.	123.477	11.112	8.6	12.	32.75	39.6
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/17/57-03/28/73	12	18.5	18.333	28.	6.	47.697	6.906	7.2	12.	24.75	27.4
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/17/57-03/28/73	12	1.75	2.25	8.3	0.9	3.821	1.955	0.99	1.425	2.225	6.53

** - Less 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 GRSM0249

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/17/57-03/28/73	12	30.5	28.517	53.	7.2	203.676	14.272	8.94	14.	37.5	50.9
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/17/57-03/28/73	12	1.7	1.608	2.4	0.9	0.172	0.414	0.93	1.325	1.8	2.28
00940	CHLORIDE,TOTAL IN WATER MG/L	10/17/57-03/28/73	12	54.5	49.417	90.	13.	626.083	25.022	14.2	24.5	67.	86.7
00945	SULFATE, TOTAL (MG/L AS SO4)	10/17/57-03/28/73	12	16.	16.667	25.	7.	37.697	6.14	7.9	12.	23.25	25.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/17/57-03/28/73	12	0.25	0.217	0.3	0.1	0.009	0.094	0.1	0.1	0.3	0.3
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/17/57-03/28/73	12	9.15	8.958	11.	6.9	1.328	1.152	7.17	7.95	9.7	10.7
01045	IRON, TOTAL (UG/L AS FE)	10/17/57-08/28/69	12	215.	278.333	610.	60.	37542.424	193.759	66.	105.	455.	598.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/17/57-03/28/73	12	183.	176.583	291.	66.	5280.083	72.664	74.4	102.5	229.75	284.4
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/17/57-09/17/62	12	0.7	0.8	2.2	0.1	0.313	0.559	0.13	0.375	0.975	1.93

** - Less 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 GRSM0249

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00080	COLOR (PLATINUM-COBALT UNITS)	10/17/57-03/28/73	12	120.	151.667	400.	40.	12446.97	111.566	44.5	76.25	180.	382.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/17/57-07/25/73	12	243.	274.	470.	92.	13449.818	115.973	100.4	214.	380.	455.
00400	PH (STANDARD UNITS)	10/17/57-07/25/73	12	6.65	6.7	7.2	6.4	0.071	0.266	6.43	6.5	6.8	7.2
00400	CONVERTED PH (STANDARD UNITS)	10/17/57-07/25/73	12	6.647	6.639	7.2	6.4	0.075	0.274	6.43	6.5	6.8	7.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/17/57-07/25/73	12	0.225	0.23	0.398	0.063	0.011	0.107	0.063	0.158	0.316	0.374
00440	BICARBONATE ION (MG/L AS HCO3)	10/17/57-06/27/73	12	41.5	44.25	73.	20.	315.841	17.772	20.3	32.5	55.75	73.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/17/57-03/28/73	12	55.	57.917	98.	22.	585.174	24.19	22.6	44.	79.25	95.6
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/17/57-03/28/73	12	21.	21.833	38.	5.	102.697	10.134	5.9	16.	29.	37.7
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/17/57-03/28/73	12	18.5	20.217	34.	6.9	78.522	8.861	7.44	15.	28.5	33.7
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/17/57-03/28/73	12	1.75	1.742	2.9	0.7	0.372	0.61	0.82	1.3	2.125	2.78
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/17/57-03/28/73	12	30.	30.95	56.	8.4	209.703	14.481	9.48	20.75	41.75	54.2
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/17/57-03/28/73	12	1.8	1.817	3.	0.9	0.391	0.625	0.96	1.425	1.975	2.97
00940	CHLORIDE,TOTAL IN WATER MG/L	10/17/57-03/28/73	12	45.	51.25	95.	14.	614.386	24.787	15.5	35.25	70.5	91.7
00945	SULFATE, TOTAL (MG/L AS SO4)	10/17/57-03/28/73	12	15.5	17.25	28.	7.	45.841	6.771	7.3	12.75	24.5	27.1
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/17/57-03/28/73	12	0.2	0.192	0.3	0.	0.008	0.09	0.03	0.125	0.275	0.3
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/17/57-03/28/73	12	9.25	9.392	11.	8.3	0.557	0.746	8.39	8.825	9.95	10.7
01045	IRON, TOTAL (UG/L AS FE)	10/17/57-08/28/69	9	270.	263.333	510.	0.	30575.	174.857	0.	115.	430.	510.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/17/57-03/28/73	12	158.	182.583	325.	62.	6084.447	78.003	66.8	147.5	239.25	313.6
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/17/57-09/17/62	9	0.9	0.822	1.5	0.2	0.172	0.415	0.2	0.45	1.1	1.5

** - 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 1963 - Station GRSM0249

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00080	COLOR (PLATINUM-COBALT UNITS)	10/17/57-03/28/73	6	130.	140.833	220.	45.	4324.167	65.758	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/17/57-07/25/73	8	281.	296.375	462.	220.	6641.696	81.497	**	**	**	**
00400	PH (STANDARD UNITS)	10/17/57-07/25/73	8	6.8	6.8	7.3	6.2	0.18	0.424	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/17/57-07/25/73	8	6.755	6.631	7.3	6.2	0.213	0.461	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/17/57-07/25/73	8	0.176	0.234	0.631	0.05	0.043	0.208	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/17/57-06/27/73	8	43.	47.25	70.	34.	162.214	12.736	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/17/57-03/28/73	8	59.5	62.375	90.	48.	209.696	14.481	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/17/57-03/28/73	8	24.5	24.	32.	14.	39.143	6.256	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/17/57-03/28/73	8	21.	22.5	33.	17.	32.857	5.732	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/17/57-03/28/73	8	1.6	1.625	2.1	1.2	0.076	0.276	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/17/57-03/28/73	8	31.5	34.375	57.	24.	120.554	10.98	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/17/57-03/28/73	8	2.1	2.65	4.8	1.6	1.806	1.344	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/17/57-03/28/73	8	55.5	57.625	94.	37.	332.268	18.228	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/17/57-03/28/73	8	16.	18.	26.	13.	27.143	5.21	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/17/57-03/28/73	8	0.25	0.238	0.3	0.1	0.006	0.074	**	**	**	**

** - 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 1963 - Station GRSM0249

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/17/57-03/28/73	8	8.9	8.962	10.	8.1	0.463	0.68	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/17/57-03/28/73	8	189.5	197.625	303.	136.	2842.554	53.316	**	**	**	**

** - Less 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 1968 - Station GRSM0249

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/11/68-07/25/73	2	14.	14.	21.	7.	98.	9.899	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	06/27/68-07/25/73	3	943.	819.333	1420.	95.	450376.333	671.101	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	10/17/57-03/28/73	2	72.5	72.5	100.	45.	1512.5	38.891	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/17/57-07/25/73	2	427.5	427.5	581.	274.	47124.5	217.082	**	**	**	**
00400	PH (STANDARD UNITS)	10/17/57-07/25/73	3	7.1	6.933	7.2	6.5	0.143	0.379	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/17/57-07/25/73	3	7.1	6.816	7.2	6.5	0.164	0.405	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/17/57-07/25/73	3	0.079	0.153	0.316	0.063	0.02	0.142	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/17/57-06/27/73	2	48.5	48.5	62.	35.	364.5	19.092	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/17/57-03/28/73	2	90.5	90.5	118.	63.	1512.5	38.891	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/17/57-03/28/73	2	50.	50.	66.	34.	512.	22.627	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/17/57-03/28/73	2	33.5	33.5	44.	23.	220.5	14.849	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/17/57-03/28/73	2	1.45	1.45	1.8	1.1	0.245	0.495	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/17/57-03/28/73	2	50.	50.	72.	28.	968.	31.113	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/17/57-03/28/73	2	2.5	2.5	3.4	1.6	1.62	1.273	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/17/57-03/28/73	2	94.5	94.5	133.	56.	2964.5	54.447	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/17/57-03/28/73	2	24.5	24.5	33.	16.	144.5	12.021	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/17/57-03/28/73	2	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/17/57-03/28/73	2	9.7	9.7	10.	9.4	0.18	0.424	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/17/57-03/28/73	2	280.	280.	369.	191.	15842.	125.865	**	**	**	**

** - Less 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 GRSM0249

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/11/68-07/25/73	10	17.	15.8	24.	1.	54.178	7.361	1.8	10.5	22.25	23.9
00060	FLOW, STREAM, MEAN DAILY CFS	06/27/68-07/25/73	10	1305.	1431.7	2310.	591.	391465.344	625.672	613.5	954.	2222.5	2305.
00080	COLOR (PLATINUM-COBALT UNITS)	10/17/57-03/28/73	5	80.	66.	100.	30.	880.	29.665	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/17/57-07/25/73	8	435.	406.125	700.	155.	27543.268	165.962	**	**	**	**
00400	PH (STANDARD UNITS)	10/17/57-07/25/73	8	6.85	6.875	7.5	6.2	0.199	0.446	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/17/57-07/25/73	8	6.847	6.684	7.5	6.2	0.241	0.491	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/17/57-07/25/73	8	0.142	0.207	0.631	0.032	0.043	0.207	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/17/57-06/27/73	8	55.5	59.75	98.	30.	449.643	21.205	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/17/57-03/28/73	5	84.	80.6	117.	38.	860.8	29.339	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/17/57-03/28/73	5	46.	40.8	57.	17.	275.2	16.589	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/17/57-03/28/73	5	31.	29.6	43.	14.	114.3	10.691	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/17/57-03/28/73	5	1.4	1.56	2.4	1.	0.308	0.555	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/17/57-03/28/73	5	37.	38.2	57.	16.	292.7	17.108	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/17/57-03/28/73	5	2.1	2.18	3.	1.1	0.577	0.76	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/17/57-03/28/73	5	75.	71.2	102.	29.	791.2	28.128	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/17/57-03/28/73	5	20.	20.8	29.	11.	59.7	7.727	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/17/57-03/28/73	5	0.2	0.24	0.4	0.2	0.008	0.089	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/17/57-03/28/73	5	8.4	8.42	9.4	7.7	0.502	0.709	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/17/57-08/28/69	1	130.	130.	130.	130.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/17/57-03/28/73	5	243.	218.6	284.	112.	5152.3	71.78	**	**	**	**

** - Less 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 GRSM0249

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/11/68-07/25/73	13	16.5	15.238	27.	4.5	55.893	7.476	4.7	7.7	20.75	25.6
00060	FLOW, STREAM, MEAN DAILY CFS	06/27/68-07/25/73	13	1050.	1214.538	2910.	24.	1129265.436	1062.669	36.	95.5	2095.	2866.
00080	COLOR (PLATINUM-COBALT UNITS)	10/17/57-03/28/73	5	65.	67.4	120.	12.	1913.8	43.747	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/17/57-07/25/73	7	274.	319.857	606.	61.	30566.143	174.832	**	**	**	**
00400	PH (STANDARD UNITS)	10/17/57-07/25/73	8	6.6	6.775	7.4	6.4	0.148	0.385	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/17/57-07/25/73	8	6.6	6.66	7.4	6.4	0.163	0.404	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/17/57-07/25/73	8	0.251	0.219	0.398	0.04	0.017	0.132	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/17/57-06/27/73	5	42.	43.	72.	20.	347.	18.628	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/17/57-03/28/73	5	66.	66.6	124.	16.	1471.8	38.364	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/17/57-03/28/73	5	32.	31.4	65.	0.	537.8	23.191	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/17/57-03/28/73	5	22.	23.72	47.	4.6	228.492	15.116	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/17/57-03/28/73	5	1.6	1.6	1.9	1.3	0.065	0.255	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/17/57-03/28/73	5	28.	31.56	67.	6.8	478.768	21.881	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/17/57-03/28/73	5	1.5	1.74	3.1	0.9	0.683	0.826	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/17/57-03/28/73	5	53.	58.2	124.	10.	1691.2	41.124	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/17/57-03/28/73	5	17.	18.6	38.	4.	153.8	12.402	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/17/57-03/28/73	5	0.2	0.18	0.4	0.	0.022	0.148	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/17/57-03/28/73	5	8.5	8.28	9.4	6.4	1.307	1.143	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/17/57-03/28/73	5	178.	191.	390.	36.	16084.	126.823	**	**	**	**

** - Less 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 GRSM0249

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/11/68-07/25/73	11	15.8	14.618	22.	6.2	40.246	6.344	6.36	8.5	21.2	21.84
00060	FLOW, STREAM, MEAN DAILY CFS	06/27/68-07/25/73	10	1940.	1882.	2960.	672.	595472.	771.668	694.6	1229.5	2502.5	2939.
00080	COLOR (PLATINUM-COBALT UNITS)	10/17/57-03/28/73	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/17/57-07/25/73	8	275.	302.5	560.	180.	13735.714	117.199	**	**	**	**
00400	PH (STANDARD UNITS)	10/17/57-07/25/73	7	7.3	7.243	7.6	6.6	0.106	0.326	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/17/57-07/25/73	7	7.3	7.115	7.6	6.6	0.125	0.354	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/17/57-07/25/73	7	0.05	0.077	0.251	0.025	0.006	0.079	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/17/57-06/27/73	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/17/57-03/28/73	1	49.	49.	49.	49.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/17/57-03/28/73	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/17/57-03/28/73	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/17/57-03/28/73	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/17/57-03/28/73	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/17/57-03/28/73	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/17/57-03/28/73	1	49.	49.	49.	49.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/17/57-03/28/73	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/17/57-03/28/73	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/17/57-03/28/73	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/17/57-03/28/73	1	161.	161.	161.	161.	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 GRSM0249

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/11/68-07/25/73	10	14.15	14.7	22.5	6.	25.953	5.094	6.45	10.875	18.95	22.43
00060	FLOW, STREAM, MEAN DAILY CFS	06/27/68-07/25/73	11	1720.	1609.273	2550.	136.	562758.618	750.172	268.8	856.	2270.	2494.
00080	COLOR (PLATINUM-COBALT UNITS)	10/17/57-03/28/73	1	60.	60.	60.	60.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/17/57-07/25/73	11	260.	285.909	680.	140.	24164.091	155.448	144.	160.	360.	621.
00400	PH (STANDARD UNITS)	10/17/57-07/25/73	11	7.3	7.245	7.5	6.7	0.067	0.258	6.72	7.2	7.4	7.48

** - Less 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 GRSM0249

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	CONVERTED PH (STANDARD UNITS)	10/17/57-07/25/73	11	7.3	7.159	7.5	6.7	0.075	0.274	6.72	7.2	7.4	7.48
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/17/57-07/25/73	11	0.05	0.069	0.2	0.032	0.003	0.056	0.033	0.04	0.063	0.191
00440	BICARBONATE ION (MG/L AS HCO3)	10/17/57-06/27/73	1	37.	37.	37.	37.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/17/57-03/28/73	1	99.	99.	99.	99.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/17/57-03/28/73	1	68.	68.	68.	68.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/17/57-03/28/73	1	35.	35.	35.	35.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/17/57-03/28/73	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/17/57-03/28/73	1	36.	36.	36.	36.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/17/57-03/28/73	1	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/17/57-03/28/73	1	89.	89.	89.	89.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/17/57-03/28/73	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/17/57-03/28/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/17/57-03/28/73	1	9.3	9.3	9.3	9.3	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/17/57-03/28/73	1	270.	270.	270.	270.	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 1973 - Station GRSM0249

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/11/68-07/25/73	5	20.	17.5	27.	5.5	63.25	7.953	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	06/27/68-07/25/73	6	1980.	2220.	3190.	1440.	529000.	727.324	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	10/17/57-03/28/73	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/17/57-07/25/73	6	157.5	185.	275.	140.	3460.	58.822	**	**	**	**
00400	PH (STANDARD UNITS)	10/17/57-07/25/73	5	7.2	7.02	7.4	6.5	0.157	0.396	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/17/57-07/25/73	5	7.2	6.874	7.4	6.5	0.184	0.429	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/17/57-07/25/73	5	0.063	0.134	0.316	0.04	0.015	0.121	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/17/57-06/27/73	3	27.	26.	29.	22.	13.	3.606	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/17/57-03/28/73	1	36.	36.	36.	36.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/17/57-03/28/73	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/17/57-03/28/73	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/17/57-03/28/73	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/17/57-03/28/73	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/17/57-03/28/73	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/17/57-03/28/73	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/17/57-03/28/73	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/17/57-03/28/73	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/17/57-03/28/73	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/17/57-03/28/73	1	96.	96.	96.	96.	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 #1: 10/01 to 3/31 - Station GRSM0249

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00080	COLOR (PLATINUM-COBALT UNITS)	10/17/57-03/28/73	37	80.	110.676	400.	30.	5544.67	74.463	38.	60.	135.	208.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/17/57-07/25/73	46	244.	268.13	606.	87.	12875.049	113.468	139.4	183.75	360.	435.9
00400	PH (STANDARD UNITS)	10/17/57-07/25/73	47	6.6	6.777	7.5	6.2	0.161	0.402	6.3	6.5	7.2	7.4
00400	CONVERTED PH (STANDARD UNITS)	10/17/57-07/25/73	47	6.6	6.627	7.5	6.2	0.184	0.429	6.3	6.5	7.2	7.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/17/57-07/25/73	47	0.251	0.236	0.631	0.032	0.029	0.171	0.04	0.063	0.316	0.501
00440	BICARBONATE ION (MG/L AS HCO3)	10/17/57-06/27/73	37	39.	41.865	73.	15.	179.787	13.408	22.8	34.5	48.5	59.2
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/17/57-03/28/73	37	52.	59.135	124.	21.	608.176	24.661	33.6	40.5	77.	94.4
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/17/57-03/28/73	37	21.	25.	65.	5.	229.	15.133	8.	13.	33.5	50.6
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/17/57-03/28/73	37	18.	20.478	47.	6.	83.728	9.15	10.8	15.	25.5	34.2
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/17/57-03/28/73	37	1.7	1.959	8.3	0.7	2.267	1.506	0.88	1.2	2.	2.52
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/17/57-03/28/73	37	24.	29.762	67.	7.2	215.993	14.697	13.8	19.	41.5	53.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/17/57-03/28/73	37	1.6	1.83	7.5	0.9	1.285	1.134	1.	1.2	2.	3.
00940	CHLORIDE,TOTAL IN WATER MG/L	10/17/57-03/28/73	37	44.	51.622	124.	13.	742.02	27.24	23.	30.5	73.	91.2
00945	SULFATE, TOTAL (MG/L AS SO4)	10/17/57-03/28/73	37	14.	16.459	38.	7.	58.366	7.64	8.	11.	22.5	28.2
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/17/57-03/28/73	37	0.2	0.197	0.4	0.	0.01	0.099	0.1	0.1	0.3	0.3
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/17/57-03/28/73	37	8.9	8.951	11.	6.9	1.073	1.036	7.4	8.2	9.7	10.
01045	IRON, TOTAL (UG/L AS FE)	10/17/57-08/28/69	24	220.	284.583	610.	40.	34825.906	186.617	70.	120.	465.	555.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/17/57-03/28/73	37	158.	179.27	390.	66.	5830.925	76.36	94.6	123.5	237.5	287.8
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/17/61-03/28/73	19	0.9	1.226	3.8	0.2	0.954	0.977	0.4	0.6	1.6	3.1

** - 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: 4/01 to 9/30 - Station GRSM0249

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00080	COLOR (PLATINUM-COBALT UNITS)	10/17/57-03/28/73	32	100.	114.438	340.	12.	4920.125	70.144	40.	52.5	155.	207.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/17/57-07/25/73	55	278.	296.582	700.	61.	19070.47	138.096	134.8	200.	355.	474.
00400	PH (STANDARD UNITS)	10/17/57-07/25/73	54	7.	7.004	7.6	6.3	0.116	0.34	6.5	6.7	7.3	7.4
00400	CONVERTED PH (STANDARD UNITS)	10/17/57-07/25/73	54	7.	6.874	7.6	6.3	0.133	0.365	6.5	6.7	7.3	7.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/17/57-07/25/73	54	0.1	0.134	0.501	0.025	0.012	0.107	0.04	0.05	0.2	0.316
00440	BICARBONATE ION (MG/L AS HCO3)	10/17/57-06/27/73	42	42.	45.714	98.	19.	342.209	18.499	24.6	33.5	56.5	72.1
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/17/57-03/28/73	37	63.	60.135	118.	16.	507.176	22.521	28.	44.	71.	91.6
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/17/57-03/28/73	37	24.	23.973	68.	0.	208.86	14.452	7.4	15.	30.5	39.6
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/17/57-03/28/73	37	22.	21.449	44.	4.6	73.815	8.592	9.32	15.	26.5	33.2
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/17/57-03/28/73	37	1.5	1.6	2.9	0.9	0.218	0.467	1.1	1.25	1.8	2.28
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/17/57-03/28/73	37	29.	31.086	72.	6.8	211.67	14.549	11.8	23.5	38.	56.2
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/17/57-03/28/73	37	1.9	2.008	4.8	0.9	0.781	0.884	1.08	1.4	2.2	3.16
00940	CHLORIDE,TOTAL IN WATER MG/L	10/17/57-03/28/73	37	54.	54.189	133.	10.	645.269	25.402	20.8	38.5	65.5	90.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/17/57-03/28/73	37	16.	15.946	33.	4.	39.719	6.302	7.8	12.	19.5	25.2
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/17/57-03/28/73	37	0.2	0.186	0.3	0.	0.008	0.092	0.08	0.1	0.3	0.3
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/17/57-03/28/73	37	9.4	9.584	13.	6.4	1.689	1.3	8.22	8.8	10.	11.2
01045	IRON, TOTAL (UG/L AS FE)	10/17/57-08/28/69	25	240.	267.2	1000.	0.	45279.333	212.789	60.	105.	375.	486.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/17/57-03/28/73	37	181.	186.73	369.	36.	5375.925	73.321	85.8	141.	223.5	299.8
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/17/61-03/28/73	18	0.7	0.794	1.8	0.2	0.211	0.46	0.29	0.4	1.025	1.53

** - Less 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: GRSM0250

NPS Station ID: GRSM0250
LAT/LON: 35.776948/ -83.405837
Agency: 131TVAC
Date Created: 11/21/75
Location: BR. 1.3 MI. NW OF PITTMAN CENTER
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 476050 /5282
RMI-Indexes: 1021500 007720 00920 9300 1120
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 652.10 027.40 021.50
HUC: 06010107
Depth of Water: 0
Aquifer:
Major Basin: FRENCH BROAD RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: LITTLE PIGEON RIVER 21.5
ECO Region:
RF1 Index: 06010107020
RF1 Mile Point: 6.410
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010201003224.25
RF3 Mile Point: 24.26
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0250

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/75-06/01/94	22	9.8	10.895	19.4	0.2	34.78	5.897	3.07	6.275	17.6	18.88
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/21/75-02/08/77	18	84.5	160.111	1200.	25.	73505.987	271.12	29.5	40.5	191.	386.4
00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/21/75-02/08/77	17	1.	1.429	3.5	0.5	1.221	1.105	0.5	0.5	2.25	3.26
00080	COLOR (PLATINUM-COBALT UNITS)	10/21/75-02/08/77	17	2.	3.294	9.	1.	7.971	2.823	1.	1.	5.5	8.2
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	10/21/75-02/08/77	17	6.	7.588	30.	1.	43.132	6.568	1.8	4.5	9.	16.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/21/75-02/08/77	17	26.	27.294	33.	21.	16.596	4.074	21.8	23.5	31.	33.
00300	OXYGEN, DISSOLVED MG/L	10/21/75-06/01/94	19	11.1	10.837	13.7	7.6	2.864	1.692	7.8	9.8	12.2	13.5
00310	BOD, 5 DAY, 20 DEG C MG/L	11/18/75-02/08/77	19 ##	0.5	0.9	2.8	0.5	0.537	0.733	0.5	0.5	1.1	2.7
00335	COD, .025N K2CR2O7 MG/L	10/21/75-02/08/77	17	4.	3.353	6.	0.5	3.336	1.827	0.5	2.	4.5	6.
00400	PH (STANDARD UNITS)	10/21/75-02/08/77	17	6.5	6.453	7.6	5.3	0.52	0.721	5.38	5.8	7.05	7.44
00400	CONVERTED PH (STANDARD UNITS)	10/21/75-02/08/77	17	6.5	5.967	7.6	5.3	0.771	0.878	5.38	5.8	7.05	7.44
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/21/75-02/08/77	17	0.316	1.078	5.012	0.025	2.365	1.538	0.037	0.094	1.585	4.187
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/21/75-02/08/77	17	6.	8.941	20.	4.	28.309	5.321	4.8	5.	11.	20.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	10/21/75-02/08/77	17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/21/75-02/08/77	17	1.	1.765	7.	0.5	3.191	1.786	0.5	0.5	3.	4.6
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	10/21/75-02/08/77	17	0.07	0.091	0.3	0.005	0.006	0.08	0.009	0.03	0.13	0.244
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/21/75-02/08/77	17	0.02	0.029	0.09	0.005	0.001	0.025	0.009	0.01	0.04	0.074
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/21/75-02/08/77	17	0.39	0.392	0.87	0.22	0.024	0.153	0.228	0.29	0.46	0.59
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/21/75-02/08/77	17	0.01	0.017	0.05	0.005	0.	0.011	0.009	0.01	0.02	0.034
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/21/75-02/08/77	17	0.01	0.012	0.03	0.005	0.	0.007	0.005	0.01	0.015	0.022
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/08/77-02/08/77	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/21/75-02/08/77	17	3.	3.118	8.	2.	2.36	1.536	2.	2.	3.5	5.6
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/21/75-02/08/77	17	0.7	0.971	5.9	0.1	1.685	1.298	0.34	0.55	0.8	2.3
00929	SODIUM, TOTAL (MG/L AS NA)	10/21/75-02/08/77	17	1.3	1.571	3.4	1.	0.385	0.62	1.	1.2	1.85	2.68
00937	POTASSIUM, TOTAL MG/L AS K)	10/21/75-02/08/77	17	0.4	0.45	1.2	0.05	0.053	0.229	0.25	0.35	0.5	0.72
00940	CHLORIDE,TOTAL IN WATER MG/L	10/21/75-02/08/77	17	2.	2.294	4.	1.	0.596	0.772	1.8	2.	2.5	4.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/21/75-02/08/77	17	1.	1.324	4.	0.5	0.936	0.967	0.5	0.5	2.	2.4
00951	FLUORIDE, TOTAL (MG/L AS F)	10/21/75-02/08/77	17 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/21/75-02/08/77	17	6.6	6.494	8.8	3.2	1.546	1.243	4.64	6.	7.45	7.76
01002	ARSENIC, TOTAL (UG/L AS AS)	02/08/77-02/08/77	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	02/08/77-02/08/77	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	02/08/77-02/08/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	02/08/77-02/08/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	02/08/77-02/08/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	02/08/77-02/08/77	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	02/08/77-02/08/77	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/21/75-02/08/77	17	150.	200.588	840.	25.	39765.257	199.412	25.	70.	230.	544.
01046	IRON, DISSOLVED (UG/L AS FE)	10/21/75-02/08/77	16 ##	25.	49.063	200.	25.	2947.396	54.29	25.	25.	25.	165.

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

Parameter Inventory for Station: GRSM0250

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01051	LEAD, TOTAL (UG/L AS PB)	02/08/77-02/08/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/21/75-02/08/77	17	10.	31.176	220.	5.	2789.154	52.812	5.	5.	35.	100.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/21/75-02/08/77	16 ##	5.	10.938	50.	5.	157.396	12.546	5.	5.	10.	36.
01067	NICKEL, TOTAL (UG/L AS NI)	02/08/77-02/08/77	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	02/08/77-02/08/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	02/08/77-02/08/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	02/08/77-02/08/77	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01132	LITHIUM, TOTAL (UG/L AS LI)	02/08/77-02/08/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	02/08/77-02/08/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01152	TITANIUM, TOTAL (UG/L AS TI)	02/08/77-02/08/77	1 ##	500.	500.	500.	500.	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	11/18/75-02/08/77	14	180.	317.143	1430.	5.	161337.363	401.668	5.	5.	510.	1075.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	11/18/75-02/08/77	14	2.244	1.958	3.155	0.699	0.823	0.907	0.699	0.699	2.702	3.006
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			90.873								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/18/75-02/08/77	18	15.	83.889	400.	5.	13472.222	116.07	5.	5.	142.5	310.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/18/75-02/08/77	18	1.151	1.398	2.602	0.699	0.56	0.748	0.699	0.699	2.154	2.49
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			25.031								
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	10/21/75-02/08/77	17	10.	11.647	44.	7.	75.868	8.71	7.	7.5	12.	21.6
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/21/75-02/08/77	17	20.	23.529	40.	10.	74.265	8.618	10.	20.	30.	32.
71900	MERCURY, TOTAL (UG/L AS HG)	02/08/77-02/08/77	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRSM0250

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	17	0	0.00	10	0	0.00	7	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	19	0	0.00	10	0	0.00	9	0	0.00						
00400	PH	Other-Hi Lim.	9.	17	0	0.00	10	0	0.00	7	0	0.00						
		Other-Lo Lim.	6.5	17	9	0.53	10	8	0.80	7	1	0.14						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	17	0	0.00	10	0	0.00	7	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	17	0	0.00	10	0	0.00	7	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	17	0	0.00	10	0	0.00	7	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									
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	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	1	1.00	1	1	1.00									
		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	5.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	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									
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	14	1	0.07	7	0	0.00	7	1	0.14						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	18	2	0.11	11	0	0.00	7	2	0.29						
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

Seasonal Analysis for Season #1: 10/01 to 3/31 - Station GRSM0250

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/75-06/01/94	12	6.55	6.4	9.8	0.2	8.947	2.991	0.89	4.675	9.35	9.8
00300	OXYGEN, DISSOLVED MG/L	10/21/75-06/01/94	10	12.05	12.11	13.7	11.	0.868	0.931	11.01	11.175	12.675	13.68

** - Less 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: 4/01 to 9/30 - Station GRSM0250

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/75-06/01/94	10	17.7	16.29	19.4	9.8	10.937	3.307	10.08	12.75	18.7	19.36
00300	OXYGEN, DISSOLVED MG/L	10/21/75-06/01/94	9	9.8	9.422	11.1	7.6	1.189	1.091	7.6	8.6	9.9	11.1

** - 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

Station Inventory for Station: GRSM0251

NPS Station ID: GRSM0251
LAT/LON: 35.776948/ -83.405837
Agency: 112WRD
Date Created: 01/25/77
Location: LITTLE PIGEON RIVER AT LAUREL, TN
FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03469122
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010107
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010107020
RF1 Mile Point: 6.410
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010107002804.97
RF3 Mile Point: 5.64
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0251

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/75-09/07/76	15	9.8	12.433	19.4	2.5	35.607	5.967	3.64	7.2	18.1	19.16
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/21/75-06/07/76	10	69.5	67.4	100.	34.	616.044	24.82	34.8	42.	90.25	99.1
00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/21/75-09/07/76	13	1.2	1.562	3.5	0.5	1.298	1.139	0.5	0.5	2.6	3.38
00080	COLOR (PLATINUM-COBALT UNITS)	10/21/75-09/07/76	13	2.	2.769	9.	1.	7.692	2.774	1.	1.	3.5	8.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/21/75-09/07/76	13	26.	26.615	33.	21.	16.256	4.032	21.4	23.	31.	32.6
00300	OXYGEN, DISSOLVED MG/L	10/21/75-09/07/76	13	11.	10.792	13.5	9.4	1.509	1.228	9.44	9.8	11.55	12.98
00310	BOD, 5 DAY, 20 DEG C MG/L	11/18/75-09/07/76	14 ##	0.5	1.043	2.8	0.5	0.66	0.812	0.5	0.5	1.375	2.75
00335	COD, .025N K2CR2O7 MG/L	10/21/75-09/07/76	13	4.	3.231	6.	0.5	3.651	1.911	0.5	1.5	4.5	6.
00400	PH (STANDARD UNITS)	10/21/75-09/07/76	13	6.5	6.438	7.6	5.3	0.648	0.805	5.34	5.65	7.2	7.52
00400	CONVERTED PH (STANDARD UNITS)	10/21/75-09/07/76	13	6.5	5.895	7.6	5.3	0.967	0.984	5.34	5.65	7.2	7.52
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/21/75-09/07/76	13	0.316	1.273	5.012	0.025	2.937	1.714	0.031	0.063	2.374	4.6
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/21/75-09/07/76	13	7.	9.846	20.	5.	32.808	5.728	5.	5.	14.5	20.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/21/75-09/07/76	13 ##	0.5	1.962	7.	0.5	3.978	1.994	0.5	0.5	3.	5.8
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	10/21/75-09/07/76	13	0.08	0.102	0.3	0.005	0.008	0.088	0.007	0.03	0.15	0.272
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/21/75-09/07/76	13	0.03	0.034	0.09	0.005	0.001	0.027	0.007	0.01	0.055	0.082
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/21/75-09/07/76	13	0.39	0.415	0.87	0.23	0.026	0.163	0.23	0.325	0.48	0.73
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/21/75-09/07/76	13	0.02	0.016	0.03	0.005	0.	0.007	0.007	0.01	0.02	0.026
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/21/75-09/07/76	13	0.01	0.011	0.02	0.005	0.	0.005	0.005	0.008	0.015	0.02
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/21/75-09/07/76	13	10.	11.923	44.	7.	97.244	9.861	7.	7.	11.5	31.6
00916	CALCIUM, TOTAL (MG/L AS CA)	10/21/75-09/07/76	13	3.	3.154	8.	2.	2.641	1.625	2.	2.	3.5	6.4
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/21/75-09/07/76	13	0.6	1.023	5.9	0.1	2.232	1.494	0.22	0.45	0.7	4.1
00929	SODIUM, TOTAL (MG/L AS NA)	10/21/75-09/07/76	13	1.3	1.569	3.4	1.	0.402	0.634	1.04	1.2	1.85	2.84
00937	POTASSIUM, TOTAL MG/L AS K)	10/21/75-09/07/76	13	0.4	0.5	1.2	0.3	0.05	0.224	0.34	0.4	0.5	0.96
00940	CHLORIDE,TOTAL IN WATER MG/L	10/21/75-09/07/76	13	2.	2.308	4.	2.	0.397	0.63	2.	2.	2.5	3.6
00945	SULFATE, TOTAL (MG/L AS SO4)	10/21/75-09/07/76	13 ##	0.5	1.115	4.	0.5	1.173	1.083	0.5	0.5	2.	3.2
00951	FLUORIDE, TOTAL (MG/L AS F)	10/21/75-09/07/76	13 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/21/75-09/07/76	13	6.5	6.385	7.5	3.2	1.401	1.184	4.04	6.	7.45	7.5
01045	IRON, TOTAL (UG/L AS FE)	11/18/75-09/07/76	12	190.	225.833	840.	25.	54021.97	232.426	25.	55.	287.5	729.
01046	IRON, DISSOLVED (UG/L AS FE)	11/18/75-09/07/76	11 ##	25.	44.091	150.	25.	1884.091	43.406	25.	25.	25.	142.
01055	MANGANESE, TOTAL (UG/L AS MN)	10/21/75-09/07/76	12 ##	12.5	39.167	220.	5.	3812.879	61.749	5.	5.	57.5	175.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/21/75-09/07/76	11 ##	5.	6.364	20.	5.	20.455	4.523	5.	5.	5.	17.
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	11/18/75-09/07/76	12	180.	336.667	1430.	5.	185142.424	430.282	5.	5.	610.	1217.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	11/18/75-09/07/76	12	2.244	1.917	3.155	0.699	0.944	0.971	0.699	0.699	2.78	3.066
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			82.697								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/18/75-09/07/76	13	30.	105.769	400.	5.	16649.359	129.032	5.	5.	165.	360.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/18/75-09/07/76	13	1.477	1.521	2.602	0.699	0.624	0.79	0.699	0.699	2.216	2.552
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			33.2								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/21/75-09/07/76	13	20.	23.077	30.	10.	56.41	7.511	10.	20.	30.	30.

** - Less 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: GRSM0251

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/21/75-06/07/76	10	4.29	3.746	4.91	1.13	1.515	1.231	1.287	2.738	4.658	4.905
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/21/75-09/07/76	13	0.03	0.032	0.04	0.01	0.	0.011	0.01	0.03	0.04	0.04

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

EPA Water Quality Criteria Analysis for Station: GRSM0251

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	13	0	0.00	6	0	0.00	7	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	13	0	0.00	6	0	0.00	7	0	0.00						
00400	PH	Other-Hi Lim.	9.	13	0	0.00	6	0	0.00	7	0	0.00						
		Other-Lo Lim.	6.5	13	7	0.54	6	6	1.00	7	1	0.14						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	13	0	0.00	6	0	0.00	7	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	13	0	0.00	6	0	0.00	7	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	13	0	0.00	6	0	0.00	7	0	0.00						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	12	1	0.08	5	0	0.00	7	1	0.14						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	13	2	0.15	6	0	0.00	7	2	0.29						

& - 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: GRSM0252

NPS Station ID: GRSM0252
LAT/LON: 35.781670/ -83.216948
Agency: 112WRD
Date Created: 12/22/84
Location: CRYING CREEK ABOVE COSBY, TN
FIPS State/County: 47029 TENNESSEE/COCKE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 034611996
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010106008
RF1 Mile Point: 2.560
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010106000804.41
RF3 Mile Point: 5.08
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0252

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/83-09/26/85	6	15.5	14.167	18.5	6.	21.067	4.59	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/18/83-09/26/85	6	1.	1.617	4.	0.7	1.562	1.25	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/83-09/26/85	5	17.	17.2	21.	13.	11.2	3.347	**	**	**	**

** - Less 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: GRSM0253

NPS Station ID: GRSM0253
LAT/LON: 35.782503/ -83.110559
Agency: 1113S000
Date Created: / /
Location: PIGEON R AT CO HWY NR WATERVILLE
FIPS State/County: 47029 TENNESSEE/COCKE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 471040 /PR-PI-1
RMI-Indexes: 1021500 007720 00920 9300 2520
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 652.10 073.80 025.00
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: FRENCH BROAD RIVER BASIN
ECO Region:
RF1 Index: 06010106009
RF1 Mile Point: 11.760
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010106000900.00
RF3 Mile Point: 0.06
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0253

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/05/73-06/08/73	4	18.	18.75	21.	18.	2.25	1.5	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	06/05/73-06/08/73	4	25.	23.75	40.	5.	206.25	14.361	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/05/73-06/08/73	4	125.	114.	156.	50.	2100.667	45.833	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/05/73-06/08/73	4	8.55	8.6	8.9	8.4	0.047	0.216	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	06/05/73-06/08/73	4	2.55	2.575	3.	2.2	0.123	0.35	**	**	**	**
00400	PH (STANDARD UNITS)	06/05/73-06/08/73	4	6.8	6.75	6.9	6.5	0.03	0.173	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/05/73-06/08/73	4	6.8	6.722	6.9	6.5	0.031	0.176	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/05/73-06/08/73	4	0.158	0.19	0.316	0.126	0.007	0.086	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/05/73-06/08/73	4	23.	22.25	29.	14.	38.917	6.238	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/05/73-06/08/73	4	4.	3.5	4.	2.	1.	1.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	06/05/73-06/08/73	4	116.5	121.	150.	101.	531.333	23.051	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/05/73-06/08/73	4	100.	105.75	134.	89.	405.583	20.139	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/05/73-06/08/73	4	14.	15.25	23.	10.	32.917	5.737	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/05/73-06/08/73	4	0.1	0.11	0.15	0.09	0.001	0.028	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/05/73-06/08/73	4	0.495	0.627	1.2	0.32	0.153	0.391	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/05/73-06/08/73	4	0.36	0.335	0.37	0.25	0.003	0.057	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/05/73-06/08/73	4	0.055	0.055	0.08	0.03	0.	0.021	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/05/73-06/08/73	4	4.	4.5	6.	4.	1.	1.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/05/73-06/08/73	4	11.5	11.	13.	8.	4.667	2.16	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/06/73-06/08/73	3 ##	25.	21.667	25.	15.	33.333	5.774	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/05/73-06/08/73	4 ##	25.	30.	55.	15.	300.	17.321	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	06/06/73-06/08/73	3	5.	6.667	13.	2.	32.333	5.686	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/05/73-06/08/73	4	10.	9.75	13.	6.	14.25	3.775	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/05/73-06/08/73	4	1120.	1060.	1170.	830.	25733.333	160.416	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	06/06/73-06/08/73	3	90.	100.	120.	90.	300.	17.321	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/05/73-06/08/73	4	90.	82.5	100.	50.	558.333	23.629	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/06/73-06/08/73	3	60.	60.	60.	60.	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	06/05/73-06/08/73	4	1500.	1605.	3000.	420.	1150766.667	1072.738	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	06/05/73-06/08/73	4	3.172	3.111	3.477	2.623	0.129	0.359	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			1291.786								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/05/73-06/08/73	4	240.	242.5	350.	140.	7425.	86.168	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/05/73-06/08/73	4	2.38	2.362	2.544	2.146	0.027	0.164	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			230.391								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	06/05/73-06/08/73	4	24.	27.125	58.	2.5	559.063	23.645	**	**	**	**

** - Less 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: GRSM0253

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	4	0	0.00				4	0	0.00						
00400	PH	Other-Hi Lim.	9.	4	0	0.00				4	0	0.00						
		Other-Lo Lim.	6.5	4	1	0.25				4	1	0.25						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	4	0	0.00				4	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	4	0	0.00				4	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	3	0	0.00				3	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	4	0	0.00				4	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	3	0	0.00				3	0	0.00						
		Drinking Water	1300.	3	0	0.00				3	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	4	0	0.00				4	0	0.00						
		Drinking Water	1300.	4	0	0.00				4	0	0.00						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	4	3	0.75				4	3	0.75						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	4	3	0.75				4	3	0.75						

& - 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: GRSM0254

NPS Station ID: GRSM0254
LAT/LON: 35.782781/ -83.217504
Agency: 112WRD
Date Created: 01/25/77
Location: COSBY CREEK ABOVE COSBY, TN
FIPS State/County: 47029 TENNESSEE/COCKE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03461200
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010106008
RF1 Mile Point: 2.410
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010106000303.32
RF3 Mile Point: 3.31
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0254

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/75-09/11/85	68	10.5	10.912	22.	0.5	28.738	5.361	3.5	6.125	15.75	18.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/75-09/11/85	68	18.	19.294	52.	3.	166.061	12.886	4.	8.	26.75	40.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/19/75-12/29/81	48	18.	18.875	40.	11.	27.133	5.209	14.9	16.	20.75	23.2
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	12/19/79-12/19/79	1	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/19/79-12/19/79	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	12/19/79-12/19/79	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

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

Seasonal Analysis for Season #1: 10/01 to 3/31 - Station GRSM0254

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/75-09/11/85	38	7.	7.5	17.5	0.5	16.081	4.01	2.9	3.875	10.	14.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/75-09/11/85	38	19.	18.526	46.	3.	142.634	11.943	4.	6.	26.5	34.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/19/75-12/29/81	26	18.	18.192	25.	11.	9.762	3.124	14.8	16.	21.	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: 4/01 to 9/30 - Station GRSM0254

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/75-09/11/85	30	16.	15.233	22.	10.	11.306	3.362	10.05	12.	18.	18.95
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/75-09/11/85	30	17.5	20.267	52.	4.	199.926	14.14	5.1	8.	28.5	43.9
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/19/75-12/29/81	22	17.5	19.682	40.	12.	47.846	6.917	14.3	16.	20.5	34.1

** - 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

Station Inventory for Station: GRSM0255

NPS Station ID: GRSM0255
LAT/LON: 35.782781/ -83.217504
Agency: 12NSS
Date Created: 10/22/88
Location: COSBY CREEK
FIPS State/County: 47029 TENNESSEE/COCKE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 2A07805U /2AS2A07805U
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 500
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010106
RF1 Mile Point: 0.000
Distance from RF1: 3.20
On/Off RF1:
RF3 Index: 06010106012900.00
RF3 Mile Point: 0.29
Distance from RF3: 0.08
On/Off RF3:
Description:
THESE DATA WERE COLLECTED DURING PHASE I OF THE NATIONAL STREAM SURVEY AS PART OF EPA'S NATIONAL SURFACE WATER SURVEY AND AQUATIC EFFECTS RESEARCH PROGRAM UNDER THE NATIONAL ACID PRECIPITATION ASSESSMENT PROGRAM. THE SURVEY DESIGN, METHODS, AND DATA LIMITAITONS ARE DESCRIBED IN:

Parameter Inventory for Station: GRSM0255

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/85-07/07/85	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00064	DEPTH OF STREAM, MEAN (FT)	07/07/85-07/07/85	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	07/07/85-07/07/85	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/07/85-07/07/85	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/07/85-07/07/85	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/07/85-07/07/85	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/07/85-07/07/85	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/85-07/07/85	1	0.126	0.126	0.126	0.126	0.	0.	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	07/07/85-07/07/85	1	112.6	112.6	112.6	112.6	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	07/07/85-07/07/85	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/07/85-07/07/85	1	0.017	0.017	0.017	0.017	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/07/85-07/07/85	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	07/07/85-07/07/85	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/07/85-07/07/85	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/07/85-07/07/85	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/07/85-07/07/85	1	1.28	1.28	1.28	1.28	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/07/85-07/07/85	1	0.33	0.33	0.33	0.33	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	07/07/85-07/07/85	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/07/85-07/07/85	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/07/85-07/07/85	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/07/85-07/07/85	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/07/85-07/07/85	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/07/85-07/07/85	1	47.	47.	47.	47.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/07/85-07/07/85	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
71885	IRON (UG/L AS FE)	07/07/85-07/07/85	1	7.99	7.99	7.99	7.99	0.	0.	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	07/07/85-07/07/85	1	1640.	1640.	1640.	1640.	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/07/85-07/07/85	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
83509	STREAM, WIDTH METER	07/07/85-07/07/85	1	5.	5.	5.	5.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0255

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Fresh Acute	4.	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						
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	1	1	1.00				1	1	1.00						
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0256

NPS Station ID: GRSM0256
LAT/LON: 35.785281/ -83.113060
Agency: 21NC01WQ
Date Created: / /
Location: PIGEON RIVER AT WATERVILLE NC
FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/FISH/STREAM/SOLIDS
STORET Station ID(s): E6500000 /FRB050 /040305012 /03460766
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 03040103
Depth of Water: 1
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: FRENCH BROAD
ECO Region:
RF1 Index: 03040103
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010106001303.98
RF3 Mile Point: 4.51
Distance from RF3: 0.02
On/Off RF3:
Description:
UPIGEON RIVER AT WATERVILLE NC. BELOW CAROLINA POWER & LIGHT HYDRO STA. LOCATION: FROM JCT OF US 19 & NC 284 AT DELLWOOD, TRAVEL N ON NC 284 TO COVE CREEK, FROM COVE CREEK TRAVEL N ON I-40 TO NC-TENN STATE LINE. LEAVE I-40 AT EXIT BELOW WATERVILLE POWER STA. & TRAVEL TO BRIDGE OVER PIGEON RIVER. LOCATED TO DEFINE QUALITY OF WATER ENTERING TENN FROM NC.

Parameter Inventory for Station: GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	02/24/83-12/05/94	56	150.	119.196	150.	10.	2522.524	50.225	38.5	52.5	150.	150.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	250	14.	14.082	25.	2.	36.791	6.066	6.	9.	19.	22.
00060	FLOW, STREAM, MEAN DAILY CFS	10/18/73-05/20/75	24	2240.	2038.667	3900.	42.	2058853.71	1434.871	57.5	229.75	3450.	3700.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/75-10/21/92	102	1640.	1612.566	8000.	0.7	1945673.585	1394.874	52.6	152.25	2355.	3349.
00064	DEPTH OF STREAM, MEAN (FT)	02/24/83-12/05/94	56	3.	2.83	3.	0.5	0.312	0.558	2.35	3.	3.	3.
00065	STAGE, STREAM (FEET)	06/14/73-10/21/92	136	3.32	41.593	4331.	0.02	137526.901	370.846	0.41	2.16	4.145	40.859
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	183	5.	11.474	380.	0.5	938.095	30.628	1.5	2.5	10.	23.
00078	TRANSPARENCY, SECCHI DISC (METERS)	12/05/74-12/05/74	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	05/16/68-12/05/94	88	44.5	56.057	240.	3.	2017.043	44.911	12.	21.25	78.75	128.2
00082	COLOR,SPECTROPHOTO,WATER SMPL AT7.6PH ADMI UNITS	11/12/86-12/05/94	43	49.	56.349	310.	3.	2935.566	54.181	14.8	22.	66.	103.6
00083	COLOR,SPECTROPHTOMETRIC,FIL,WATER SPL ADMI UNITS	11/12/86-12/05/94	45	40.	54.822	300.	2.	2693.195	51.896	14.6	23.5	66.	98.6
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	114	180.	252.886	978.	24.	43867.518	209.446	54.	90.	351.75	598.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/04/74-12/14/89	75	150.	214.827	1000.	17.	38147.956	195.315	39.2	50.	290.	535.
00300p	OXYGEN, DISSOLVED MG/L	04/06/72-12/05/94	247	9.1	9.145	13.1	5.6	2.38	1.543	7.1	8.1	10.2	11.2
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/71-09/19/85	113	89.	86.858	111.	48.	116.998	10.817	70.	80.	95.	98.6
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	210	1.3	1.674	24.	0.05	4.459	2.112	0.6	0.9	1.725	2.5
00335	COD, .025N K2CR2O7 MG/L	10/18/73-12/11/84	50	20.	22.5	86.	2.5	298.224	17.269	5.	10.25	33.25	46.4
00340	COD, .25N K2CR2O7 MG/L	10/18/68-08/04/81	100	20.	24.205	110.	5.	301.49	17.363	10.	12.5	31.5	42.9
00400p	PH (STANDARD UNITS)	09/09/71-12/05/94	233	7.1	7.042	7.8	6.	0.111	0.333	6.64	6.9	7.2	7.4
00400p	CONVERTED PH (STANDARD UNITS)	09/09/71-12/05/94	233	7.1	6.89	7.8	6.	0.134	0.366	6.64	6.9	7.2	7.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/71-12/05/94	233	0.079	0.129	1.	0.016	0.022	0.147	0.04	0.063	0.126	0.231
00403	PH, LAB, STANDARD UNITS SU	11/28/79-06/26/91	95	7.1	7.123	7.7	6.7	0.033	0.181	6.9	7.	7.3	7.34
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-06/26/91	95	7.1	7.087	7.7	6.7	0.034	0.185	6.9	7.	7.3	7.34
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-06/26/91	95	0.079	0.082	0.2	0.02	0.001	0.033	0.046	0.05	0.1	0.126
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/71-06/26/91	202	23.	26.198	80.	4.	215.632	14.684	10.	15.	34.	48.7
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/09/71-08/31/87	91	0.	0.484	44.	0.	21.275	4.612	0.	0.	0.	0.
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	106	25.	28.151	76.	5.	266.377	16.321	10.	15.	41.	52.2
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	06/10/74-08/20/80	2	38.	38.	49.	27.	242.	15.556	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	141	170.	217.333	779.	34.	25579.595	159.936	51.4	94.	289.	430.
00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/06/80-01/25/85	52	55.	61.096	219.	6.	1784.324	42.241	20.	31.75	75.5	116.1
00510	RESIDUE, TOTAL FIXED (MG/L)	08/06/80-01/25/85	52	119.	175.885	589.	22.	24369.633	156.108	27.2	66.75	267.5	440.

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Parameter Inventory for Station: GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	177	6.	10.432	319.	0.5	784.413	28.007	1.	3.	10.	17.2
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/06/80-01/25/85	52	4.	5.712	66.	0.5	94.994	9.746	0.5	2.	5.	8.
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	08/06/80-01/25/85	52	1.5	11.538	253.	0.5	1637.734	40.469	0.5	0.5	5.75	15.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-12/05/94	144	0.08	0.174	11.	0.01	0.833	0.913	0.025	0.05	0.12	0.19
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/25/73-12/05/94	149	0.3	0.354	1.3	0.05	0.043	0.208	0.14	0.2	0.4	0.6
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/25/73-12/05/94	148	0.44	0.48	2.1	0.05	0.055	0.234	0.249	0.36	0.55	0.755
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	10/25/73-12/04/75	7 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	10/25/73-12/05/94	147	0.09	0.113	0.54	0.02	0.007	0.084	0.029	0.06	0.13	0.222
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/19/79-12/15/80	7	12.	12.571	31.	5.	87.619	9.361	**	**	**	**
00745	SULFIDE, TOTAL (MG/L AS S)	10/18/68-05/17/73	2 ##	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/24/83-12/05/94	72	34.5	43.986	140.	8.	1040.38	32.255	14.	20.	61.25	96.1
00916	CALCIUM, TOTAL (MG/L AS CA)	05/20/77-11/09/77	2	12.5	12.5	19.	6.	84.5	9.192	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	02/23/82-08/15/85	2	5150.	5150.	7600.	2700.	12005000.	3464.823	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/20/77-05/20/77	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	05/20/77-05/20/77	1	42.	42.	42.	42.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/18/68-05/17/73	2	24.5	24.5	35.	14.	220.5	14.849	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/25/73-10/25/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	09/09/71-12/05/94	108 ##	5.	7.269	80.	5.	76.348	8.738	5.	5.	5.	10.
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/26/81-08/15/85	5 ##	1.1	1.062	1.15	0.96	0.006	0.079	**	**	**	**
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	02/23/82-02/23/82	2 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/25/73-10/25/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	02/04/74-12/05/94	103 ##	1.	9.204	25.	1.	107.38	10.362	1.	1.	25.	25.
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/26/81-08/15/85	5 ##	0.25	0.22	0.4	0.1	0.016	0.125	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/26/81-08/15/85	5	12.	10.6	15.	6.1	12.705	3.564	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/25/73-12/05/94	104 ##	12.5	17.332	25.	0.025	42.621	6.528	12.5	12.5	25.	25.
01036	COBALT, SUSPENDED (UG/L AS CO)	10/25/73-10/25/73	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	02/04/74-09/17/81	25 ##	50.	52.	100.	50.	100.	10.	50.	50.	50.	50.
01040	COPPER, DISSOLVED (UG/L AS CU)	10/25/73-10/25/73	1 ##	20.	20.	20.	20.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	02/04/74-12/05/94	103 ##	5.	47.748	3900.	1.	147051.524	383.473	1.	2.	20.	20.
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/26/81-08/15/85	5	12.	11.92	13.	9.6	1.932	1.39	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/25/73-12/05/94	64	300.	501.203	6800.	25.	724818.196	851.363	96.	200.	590.	850.
01051	LEAD, TOTAL (UG/L AS PB)	02/04/74-12/05/94	103 ##	21.	29.233	400.	5.	1858.514	43.11	5.	5.	50.	50.
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/26/81-08/15/85	5	20.	20.8	27.	17.	14.2	3.768	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	02/04/74-10/25/93	41	60.	86.854	310.	5.	5309.328	72.865	18.4	26.5	125.	190.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/25/73-10/25/73	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	05/26/76-12/05/94	82 ##	5.	24.134	400.	5.	2122.216	46.068	5.	5.	50.	50.
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	02/23/82-08/15/85	4	10.7	12.175	19.	8.3	23.109	4.807	**	**	**	**
01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	02/23/82-08/28/84	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/25/73-10/25/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	02/04/74-12/05/94	103 ##	5.	112.447	10000.	4.	968605.014	984.177	5.	5.	25.	25.
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	02/23/82-08/15/85	4	82.5	81.	91.	68.	91.333	9.557	**	**	**	**
01099	ANTIMONY,TISSUE,WET WEIGHT,MG/KG	10/25/73-10/25/73	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/29/83-12/05/94	46	150.	228.391	1100.	25.	60283.71	245.527	25.	79.25	280.	552.
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	02/23/82-08/15/85	2	9800.	9800.	11000.	8600.	2880000.	1697.056	**	**	**	**
31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	07/02/68-06/03/70	5	240000.	251240.	660000.	6200.70	232688000.	265014.505	**	**	**	**
31504	LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,	07/02/68-06/03/70	5	5.38	4.995	5.82	3.792	0.701	0.837	**	**	**	**
31504	GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =			98828.822								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	241	110.	610.959	36000.	0.5	6592153.586	2567.519	5.	20.	450.	1000.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	241	2.041	1.989	4.556	-0.301	0.761	0.872	0.699	1.301	2.653	3.
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			97.409								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/18/68-05/17/73	2 ##	0.005	0.005	0.008	0.003	0.	0.004	**	**	**	**
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	02/23/82-02/23/82	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
34684	DIELDRIN TISMG/KG	02/23/82-02/23/82	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
34685	ENDRIN WET WGTTISMG/KG	02/23/82-02/23/82	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
34688	HEXACHLOROBENZENE WET WGTTISMG/KG	02/23/82-02/23/82	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	05/16/68-11/14/73	30	0.1	0.112	0.4	0.05	0.008	0.089	0.05	0.05	0.1	0.29
39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	02/23/82-02/23/82	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	06/26/81-02/23/82	2 ##	1000.	1000.	1000.	1000.	0.	0.	**	**	**	**
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	02/23/82-02/23/82	1 ##	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL	06/26/81-02/23/82	2 ##	30.	30.	30.	30.	0.	0.	**	**	**	**
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	02/23/82-02/23/82	1 ##	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	06/26/81-02/23/82	2 ##	30.	30.	30.	30.	0.	0.	**	**	**	**
39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	02/23/82-02/23/82	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**

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Parameter Inventory for Station: GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	06/26/81-02/23/82	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	02/23/82-02/23/82	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39075	BHC- GAMMA ISOMER, TISSUE WET WGT (UG/G)	02/23/82-02/23/82	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	06/26/81-02/23/82	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39290	DDT TOTAL IN TISSUE WET WGT BASIS (UG/G)	02/23/82-02/23/82	1 ##	0.045	0.045	0.045	0.045	0.	0.	**	**	**	**
39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/26/81-02/23/82	2 ##	35.	35.	35.	35.	0.	0.	**	**	**	**
39302	P P DDT IN TISSUE WET WGT (UG/G)	02/23/82-02/23/82	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/26/81-02/23/82	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/26/81-02/23/82	2 ##	20.	20.	20.	20.	0.	0.	**	**	**	**
39312	P P DDD IN TISSUE WET WGT (UG/G)	02/23/82-02/23/82	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/26/81-02/23/82	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39318	O,P' DDT IN FISH OR ANIMAL BY WET WEIGHT UG/KG	02/23/82-02/23/82	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/26/81-02/23/82	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	02/23/82-02/23/82	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39325	O,P DDD IN TISSUE WET WGT (UG/G)	02/23/82-02/23/82	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	06/26/81-02/23/82	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39329	O,P DDE IN TISSUE, WET WGT(UG/G)	02/23/82-02/23/82	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/26/81-02/23/82	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/26/81-02/23/82	2 ##	45.	45.	45.	45.	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	06/26/81-02/23/82	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/26/81-02/23/82	2 ##	20.	20.	20.	20.	0.	0.	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	06/26/81-02/23/82	2 ##	40.	40.	40.	40.	0.	0.	**	**	**	**
39482	METHOXYCHLOR IN FISH - UG/KG	02/23/82-02/23/82	1 ##	40.	40.	40.	40.	0.	0.	**	**	**	**
39515	PCBS (MG/KG) FISH TISSUE MG/KG	02/23/82-02/23/82	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/26/81-02/23/82	2 ##	200.	200.	200.	200.	0.	0.	**	**	**	**
39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	06/26/81-02/23/82	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70305	SALINITY BASED ON CONDUCTIVITY	03/11/74-02/09/77	10	0.	0.104	0.9	0.	0.079	0.282	0.	0.	0.055	0.82
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/20/77-09/19/91	87	0.06	0.079	0.27	0.01	0.004	0.067	0.02	0.025	0.11	0.18
71876	SOAPS, RESIN ACID (MG/L)	04/06/72-04/06/72	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	07/09/70-12/05/94	107 ##	0.1	0.185	1.7	0.1	0.047	0.218	0.1	0.1	0.25	0.25
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/26/81-08/15/85	5	0.04	0.056	0.1	0.01	0.002	0.042	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	02/23/82-08/28/84	6	0.045	0.037	0.05	0.01	0.	0.018	**	**	**	**
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	02/23/82-08/28/84	6 ##	0.5	0.75	2.	0.5	0.375	0.612	**	**	**	**
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	02/23/82-08/28/84	6	0.41	0.462	0.77	0.2	0.044	0.211	**	**	**	**
71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	02/23/82-08/28/84	6	12.	21.467	69.	6.8	558.667	23.636	**	**	**	**
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	02/23/82-08/28/84	6 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	02/23/82-08/28/84	6 ##	0.1	0.15	0.25	0.1	0.006	0.077	**	**	**	**
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	08/24/84-08/24/84	1	74.	74.	74.	74.	0.	0.	**	**	**	**
81647	REFERENCE POINT READING(LINEAR FEET)	10/23/78-10/21/92	96	40.925	51.787	1030.	37.45	10180.92	100.901	39.975	40.46	43.168	43.808
81656	MAGNESIUM IN FISH TISSUE WET WEIGHT MG/KG	02/23/82-02/23/82	2	320.	320.	330.	310.	200.	14.142	**	**	**	**
81666	ALUMINUM IN FISH TISSUE WET WEIGHT MG/KG	02/23/82-02/23/82	2	76.5	76.5	140.	13.	8064.5	89.803	**	**	**	**

** - Less 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: GRSM0256

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	183	4	0.02	88	3	0.03	95	1	0.01						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	247	0	0.00	119	0	0.00	128	0	0.00						
00400	PH	Other-Hi Lim.	9.	233	0	0.00	109	0	0.00	124	0	0.00						
		Other-Lo Lim.	6.5	233	22	0.09	109	13	0.12	124	9	0.07						
00403	PH, LAB	Other-Hi Lim.	9.	95	0	0.00	47	0	0.00	48	0	0.00						
		Other-Lo Lim.	6.5	95	0	0.00	47	0	0.00	48	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	148	0	0.00	72	0	0.00	76	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	2	0	0.00	1	0	0.00	1	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01002	ARSENIC, TOTAL	Fresh Acute	360.	108	0	0.00	52	0	0.00	56	0	0.00						
		Drinking Water	50.	108	1	0.01	52	0	0.00	56	1	0.02						

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

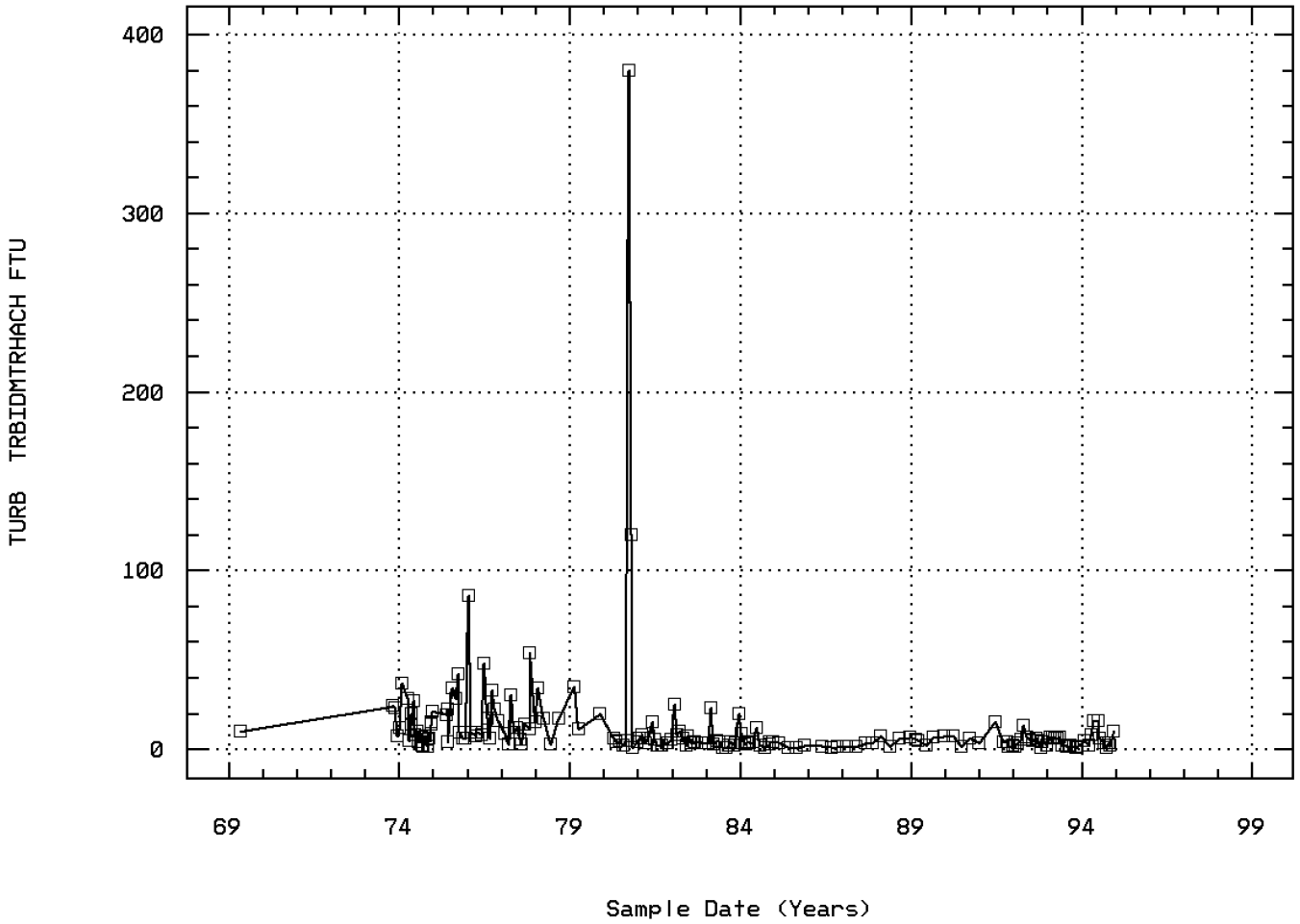
EPA Water Quality Criteria Analysis for Station: GRSM0256

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	0 &	0	0.00												
		Drinking Water	5.	0 &	0	0.00												
01027	CADMIUM, TOTAL	Fresh Acute	3.9	53 &	0	0.00	27	0	0.00	26	0	0.00						
		Drinking Water	5.	53 &	0	0.00	27	0	0.00	26	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	104	0	0.00	53	0	0.00	51	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	0 &	0	0.00												
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	78 &	4	0.05	40	2	0.05	38	2	0.05						
		Drinking Water	1300.	103	1	0.01	52	0	0.00	51	1	0.02						
01051	LEAD, TOTAL	Fresh Acute	82.	103	2	0.02	52	2	0.04	51	0	0.00						
		Drinking Water	5.	5 &	5	1.00	3	3	1.00	2	2	1.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	82	0	0.00	41	0	0.00	41	0	0.00						
		Drinking Water	100.	82	1	0.01	41	0	0.00	41	1	0.02						
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	103	2	0.02	52	1	0.02	51	1	0.02						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	241	96	0.40	116	57	0.49	125	39	0.31						
71900	MERCURY, TOTAL	Fresh Acute	2.4	107	0	0.00	55	0	0.00	52	0	0.00						
		Drinking Water	2.	107	0	0.00	55	0	0.00	52	0	0.00						

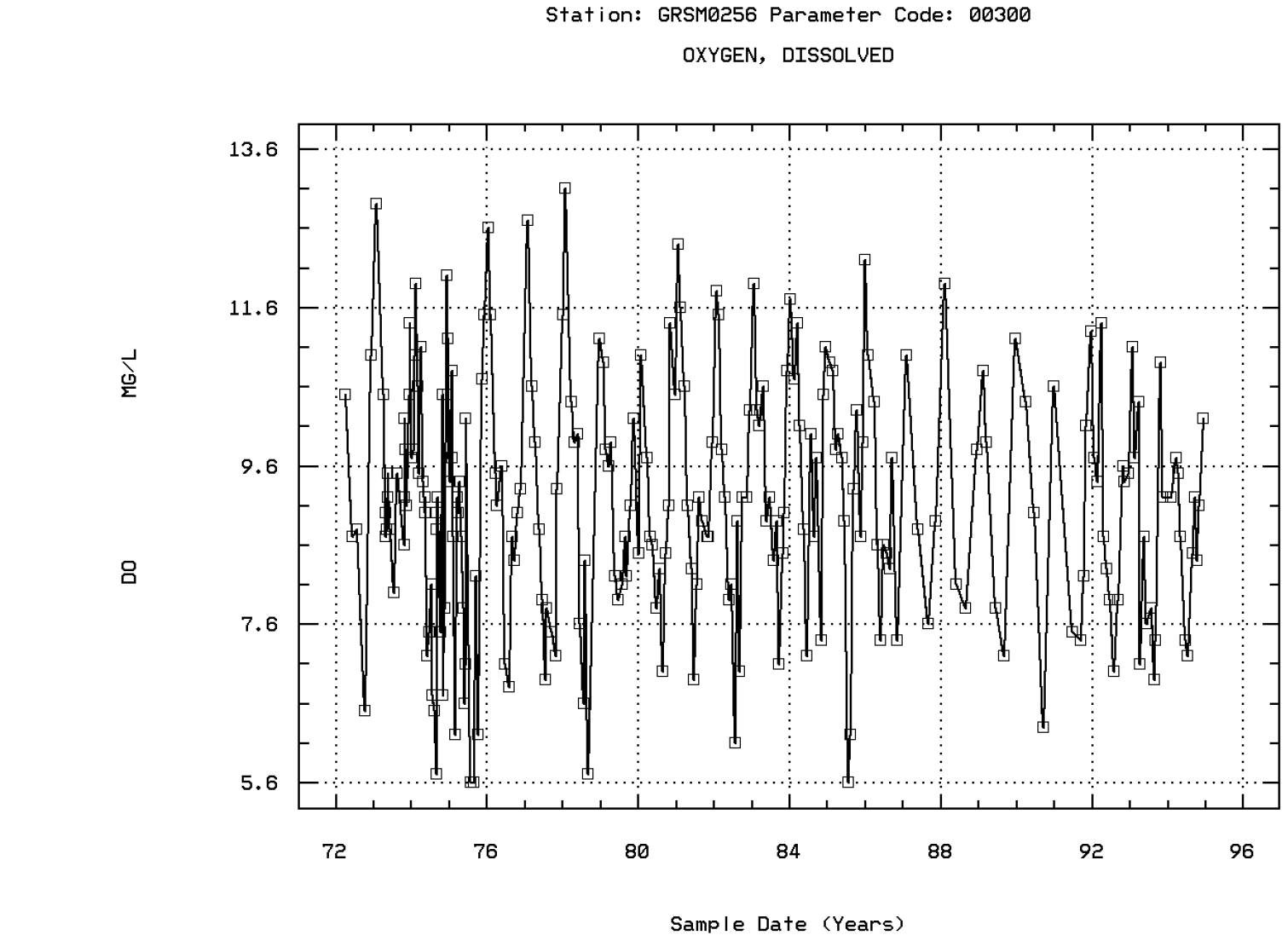
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station: GRSM0256 Parameter Code: 00076

TURBIDITY,HACH TURBIDIMETER (FORMAZIN T



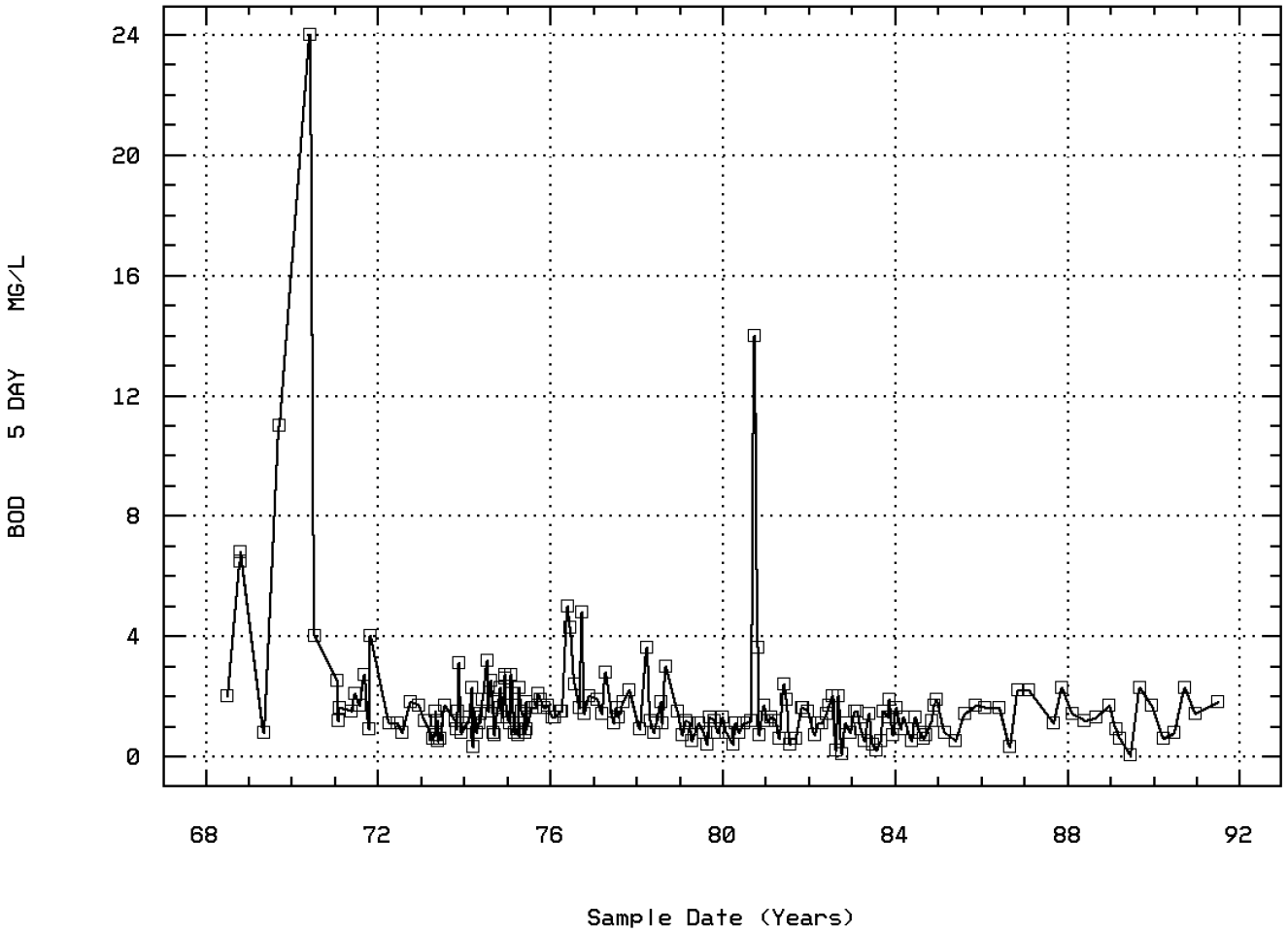
PIGEON RIVER AT WATERVILLE NC



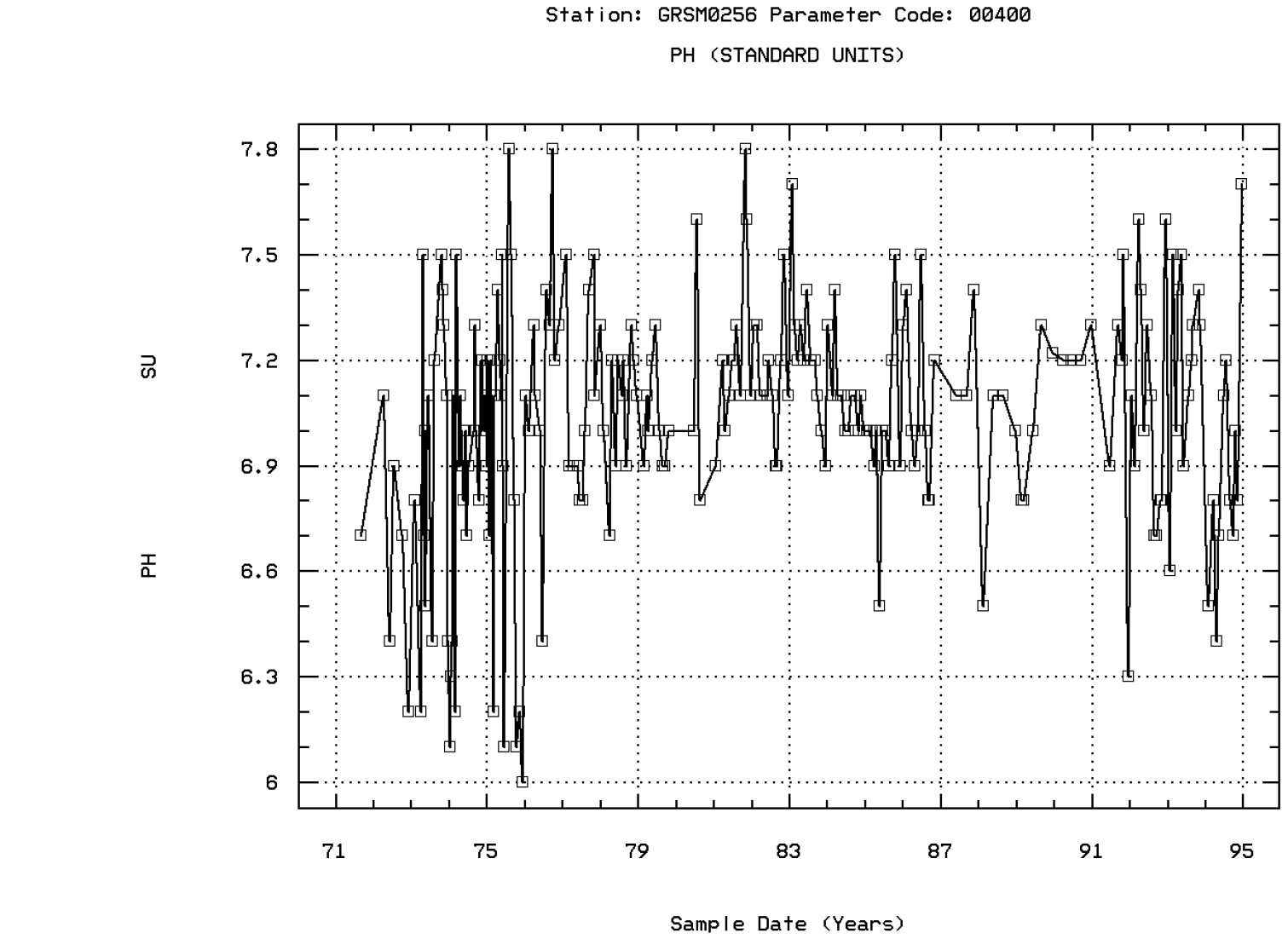
PIGEON RIVER AT WATERVILLE NC

Station: GRSM0256 Parameter Code: 00310

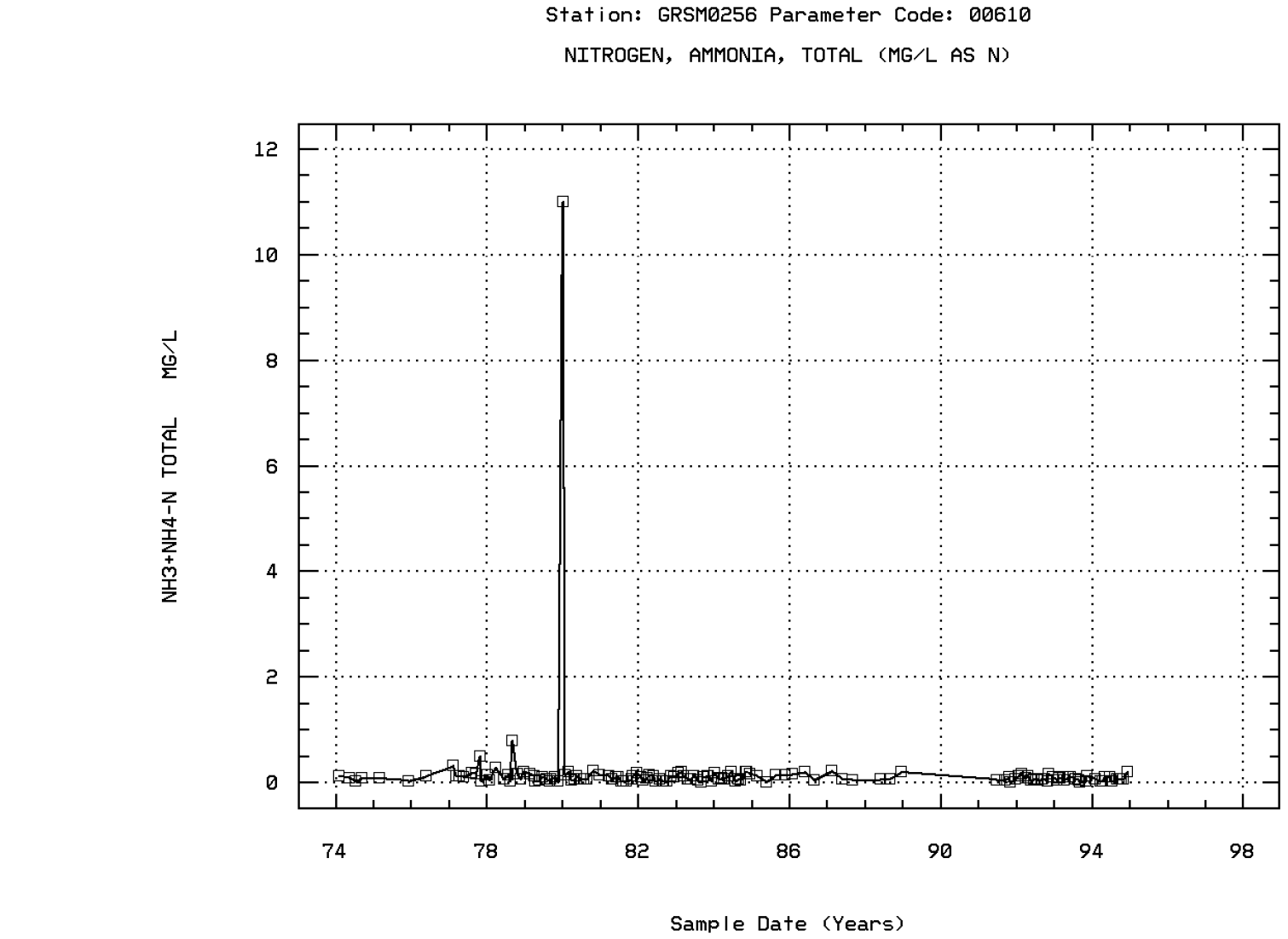
BOD, 5 DAY, 20 DEG C



PIGEON RIVER AT WATERVILLE NC



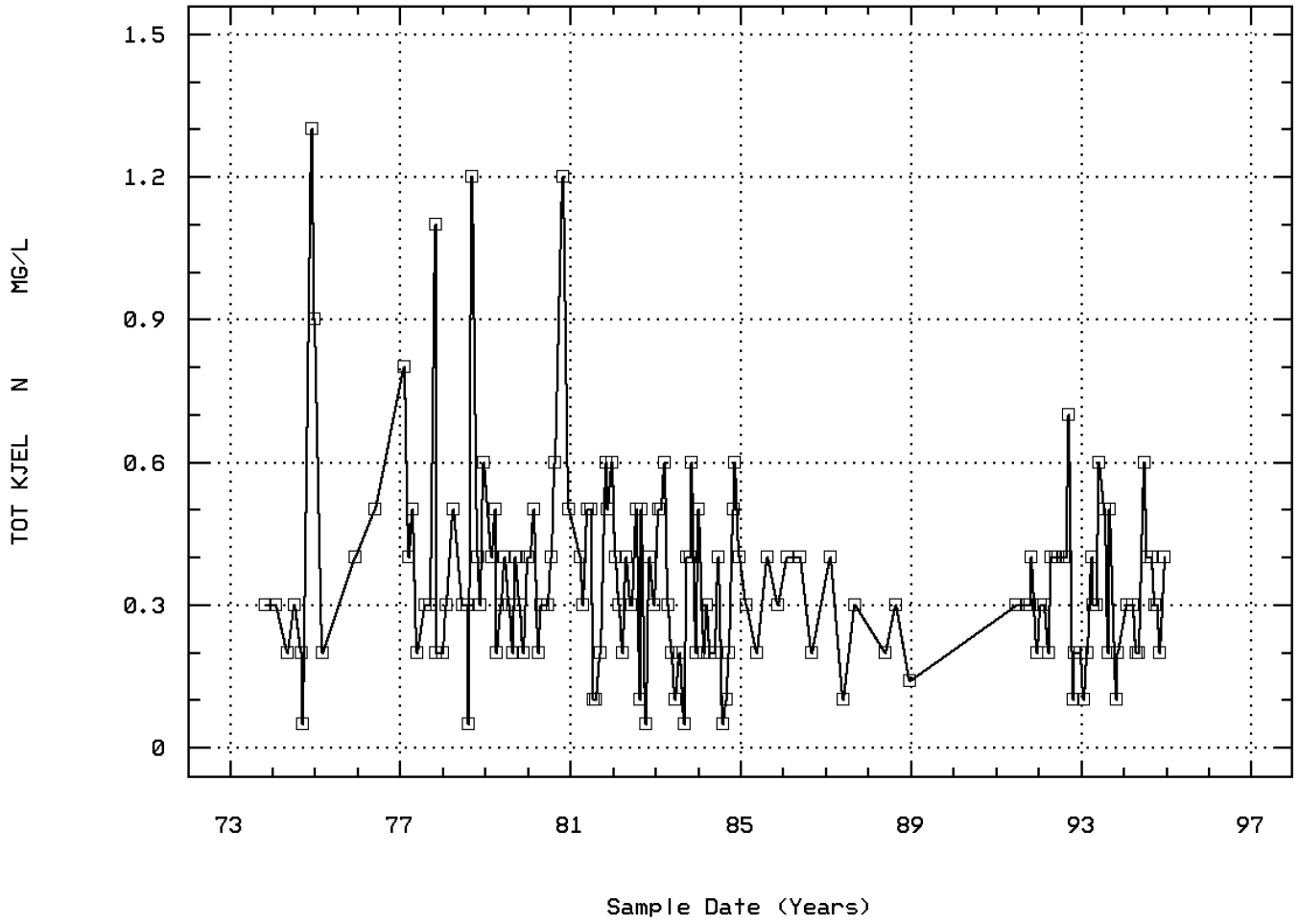
PIGEON RIVER AT WATERVILLE NC



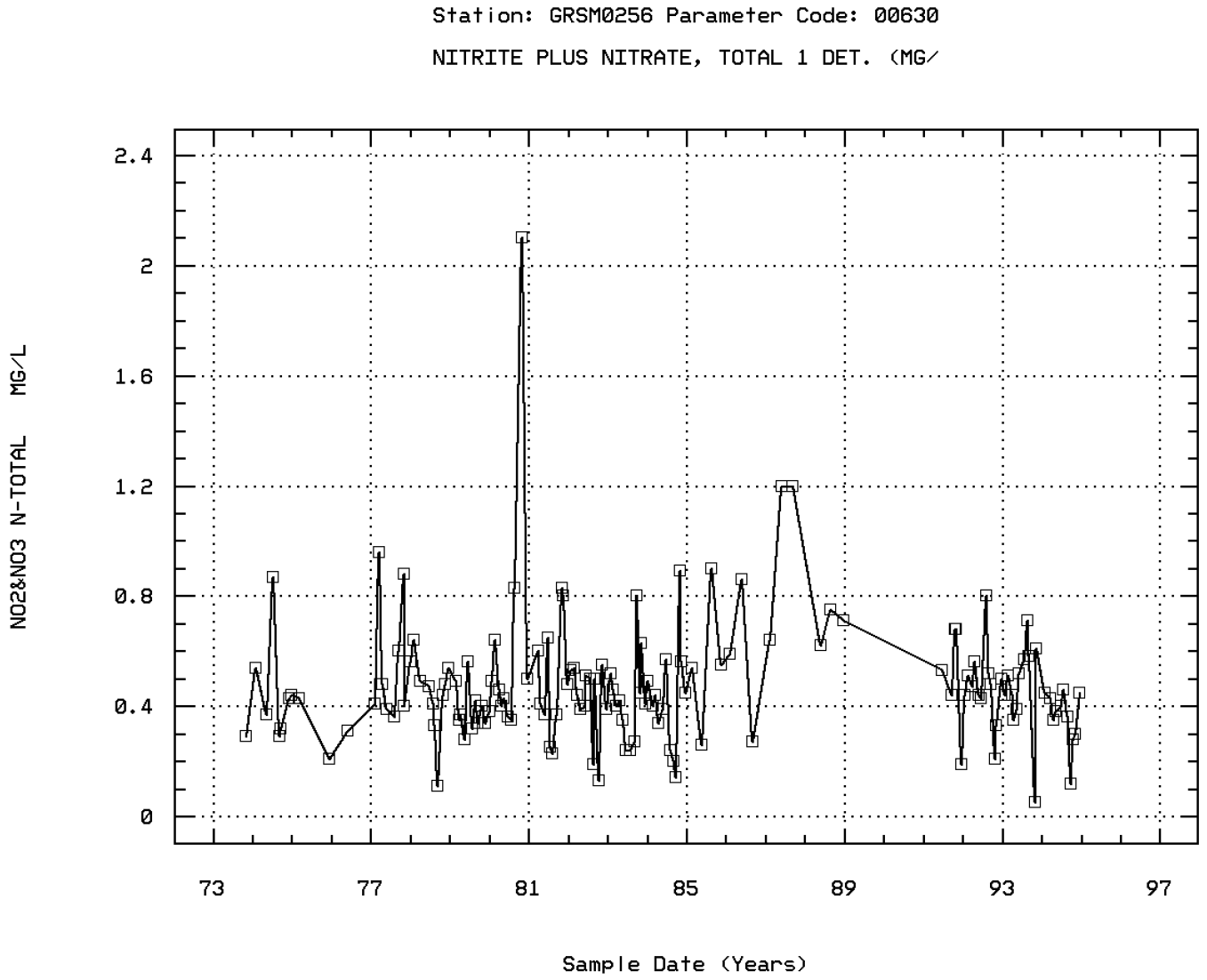
PIGEON RIVER AT WATERVILLE NC

Station: GRSM0256 Parameter Code: 00625

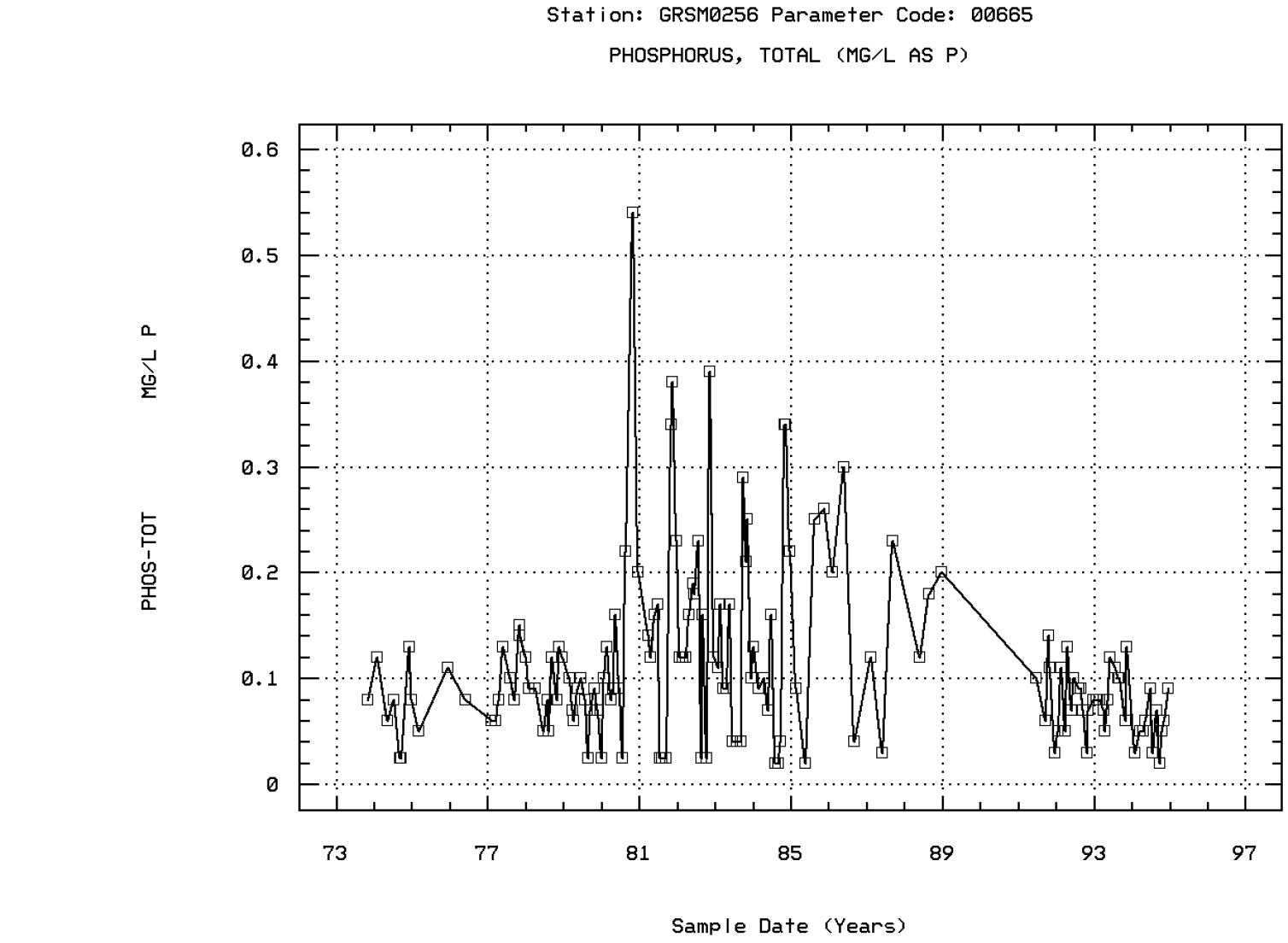
NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)



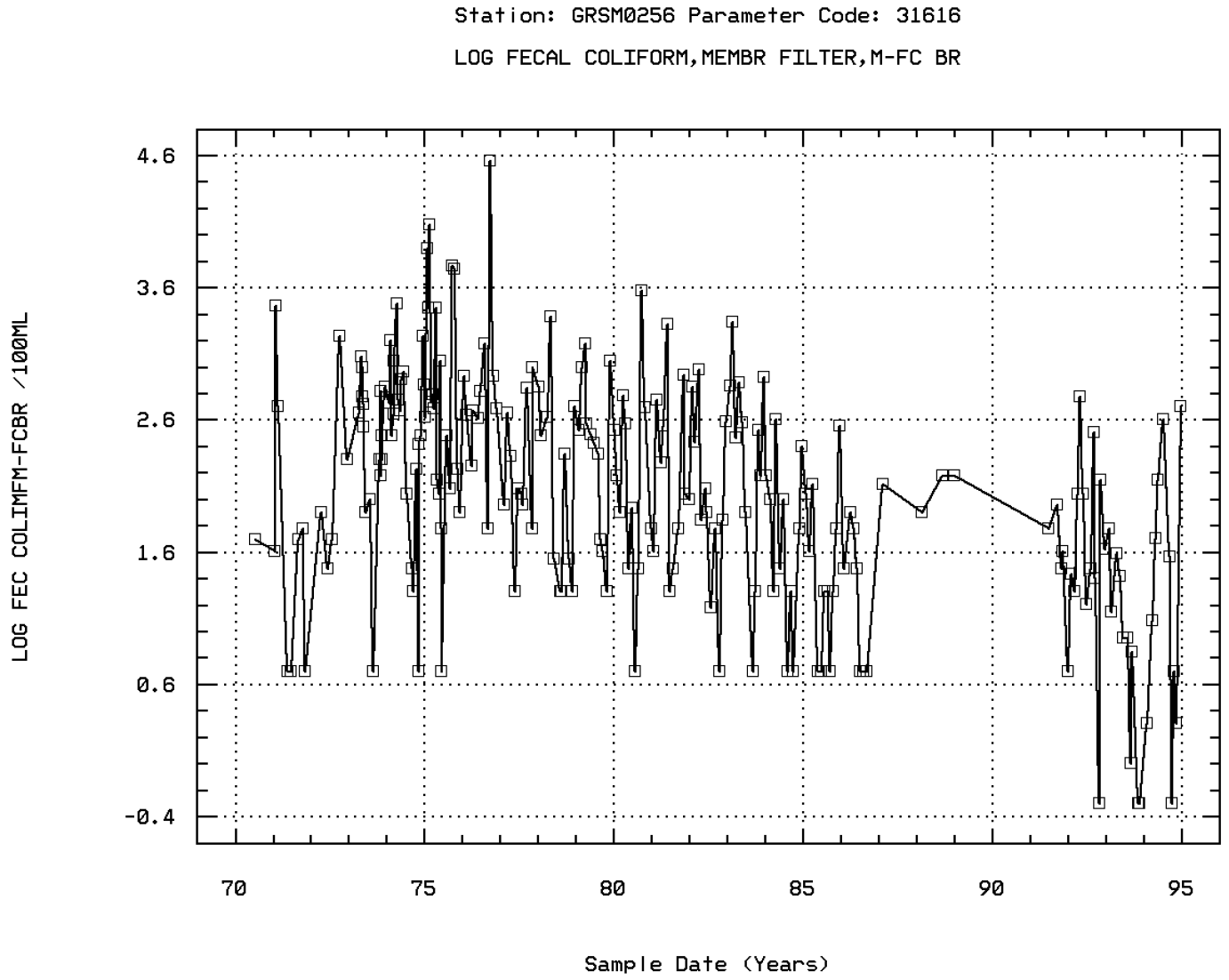
PIGEON RIVER AT WATERVILLE NC



PIGEON RIVER AT WATERVILLE NC



PIGEON RIVER AT WATERVILLE NC



PIGEON RIVER AT WATERVILLE NC

Annual Analysis for 1968 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00080	COLOR (PLATINUM-COBALT UNITS)	05/16/68-12/05/94	1	95.	95.	95.	95.	0.	0.	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	3	6.5	5.1	6.8	2.	7.23	2.689	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	10/18/68-08/04/81	1	67.	67.	67.	67.	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 1969 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	05/16/68-12/05/94	1	128.	128.	128.	128.	0.	0.	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	2	5.9	5.9	11.	0.8	52.02	7.212	**	**	**	**

** - 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 box-and-whisker plot

Annual Analysis for 1970 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	2	14.	14.	24.	4.	200.	14.142	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	1 ##	1.699	1.699	1.699	1.699	0.	0.	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			50.								

** - Less 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 GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/71-09/19/85	1	87.	87.	87.	87.	0.	0.	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	9	1.7	2.022	4.	0.9	0.887	0.942	0.9	1.35	2.6	4.
00400p	PH (STANDARD UNITS)	09/09/71-12/05/94	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/09/71-12/05/94	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/71-12/05/94	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/71-06/26/91	1	37.	37.	37.	37.	0.	0.	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/09/71-08/31/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	8	45.	445.625	2900.	5.	1011303.125	1005.636	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	8	1.651	1.667	3.462	0.699	1.017	1.008	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			46.471								

** - Less 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 GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	5	16.	15.2	23.	7.	40.2	6.34	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	04/06/72-12/05/94	5	8.8	9.1	11.	6.5	3.145	1.773	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/71-09/19/85	5	93.	88.8	101.	65.	193.2	13.9	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	5	1.1	1.3	1.8	0.8	0.185	0.43	**	**	**	**
00400p	PH (STANDARD UNITS)	09/09/71-12/05/94	5	6.7	6.66	7.1	6.2	0.133	0.365	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/09/71-12/05/94	5	6.7	6.542	7.1	6.2	0.15	0.388	**	**	**	**

** - 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 1972 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/71-12/05/94	5	0.2	0.287	0.631	0.079	0.052	0.228	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/71-06/26/91	5	26.	26.6	35.	21.	26.3	5.128	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/09/71-08/31/87	5	0.	0.	0.	0.	0.	0.	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	5	80.	412.	1700.	30.	522770.	723.028	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	5	1.903	2.122	3.23	1.477	0.476	0.69	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			132.474								

** - Less 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 GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	17	14.	14.176	24.	7.	26.779	5.175	7.8	10.	16.	24.
00065	STAGE, STREAM (FEET)	06/14/73-10/21/92	7	43.61	42.791	43.97	40.39	2.649	1.628	**	**	**	**
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	3	23.	18.167	24.	7.5	85.583	9.251	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	04/06/72-12/05/94	17	9.2	9.629	12.9	8.	1.421	1.192	8.48	8.8	10.35	11.7
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/71-09/19/85	11	94.	95.455	111.	85.	65.273	8.079	85.6	90.	100.	110.4
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	16	1.	1.138	3.1	0.5	0.401	0.633	0.57	0.7	1.425	2.12
00340	COD, .25N K2CR2O7 MG/L	10/18/68-08/04/81	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	09/09/71-12/05/94	17	7.1	6.959	7.5	6.2	0.189	0.435	6.36	6.5	7.35	7.5
00400p	CONVERTED PH (STANDARD UNITS)	09/09/71-12/05/94	17	7.1	6.756	7.5	6.2	0.233	0.482	6.36	6.5	7.35	7.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/71-12/05/94	17	0.079	0.175	0.631	0.032	0.031	0.176	0.032	0.045	0.316	0.445
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/71-06/26/91	17	20.	25.941	66.	12.	195.059	13.966	15.2	17.	31.	54.8
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/09/71-08/31/87	17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/25/73-12/05/94	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/25/73-12/05/94	1	0.29	0.29	0.29	0.29	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/25/73-12/05/94	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	15	350.	434.333	1200.	5.	121445.952	348.491	50.	150.	660.	1080.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	15	2.544	2.42	3.079	0.699	0.35	0.591	1.421	2.176	2.82	3.032
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			262.728								

** - Less 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 1974 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	27	15.	14.333	24.	3.	38.538	6.208	5.8	9.	20.	22.2
00065	STAGE, STREAM (FEET)	06/14/73-10/21/92	19	39.87	26.982	43.47	0.25	356.42	18.879	2.52	3.81	41.46	43.35
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	20	9.	12.27	37.	1.5	97.222	9.86	1.58	4.8	18.75	27.9
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/04/74-12/14/89	13	130.	169.692	490.	45.	16836.897	129.757	45.8	74.5	265.	418.
00300p	OXYGEN, DISSOLVED MG/L	04/06/72-12/05/94	27	9.2	9.104	12.	5.7	2.973	1.724	6.66	7.5	10.5	11.34
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/71-09/19/85	21	87.	85.238	101.	66.	144.29	12.012	67.4	72.	97.	100.
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	23	1.4	1.574	3.2	0.3	0.546	0.739	0.74	1.	2.3	2.66
00340	COD, .25N K2CR2O7 MG/L	10/18/68-08/04/81	18	27.5	26.333	68.	12.5	248.588	15.767	12.5	12.5	33.5	50.
00400p	PH (STANDARD UNITS)	09/09/71-12/05/94	25	7.	6.9	7.5	6.1	0.113	0.337	6.26	6.8	7.1	7.24
00400p	CONVERTED PH (STANDARD UNITS)	09/09/71-12/05/94	25	7.	6.748	7.5	6.1	0.138	0.371	6.26	6.8	7.1	7.24
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/71-12/05/94	25	0.1	0.179	0.794	0.032	0.037	0.193	0.058	0.079	0.158	0.553
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/71-06/26/91	24	20.5	24.875	56.	7.	190.201	13.791	10.	14.25	34.5	49.5
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/09/71-08/31/87	17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-12/05/94	4	0.08	0.076	0.12	0.025	0.002	0.039	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/25/73-12/05/94	7	0.3	0.464	1.3	0.05	0.209	0.457	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/25/73-12/05/94	7	0.43	0.466	0.87	0.29	0.039	0.197	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/25/73-12/05/94	7	0.08	0.074	0.13	0.025	0.002	0.041	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	22	455.	672.045	3000.	5.	568915.855	754.265	13.	90.	965.	1700.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	22	2.658	2.415	3.477	0.699	0.621	0.788	1.09	1.9	2.983	3.23

** - 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 1974 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			259.931								

** - Less 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 GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	19	14.	13.526	25.	5.	46.374	6.81	6.	8.	19.	24.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/75-10/21/92	3	1390.	1272.	1650.	776.	201412.	448.789	**	**	**	**
00065	STAGE, STREAM (FEET)	06/14/73-10/21/92	10	22.945	21.796	40.85	2.07	386.189	19.652	2.098	2.613	40.45	40.849
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	9	19.	18.944	42.	4.	187.153	13.68	4.	6.	31.	42.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/04/74-12/14/89	16	44.	96.75	330.	25.	9386.2	96.882	29.2	36.5	137.	281.
00300p	OXYGEN, DISSOLVED MG/L	04/06/72-12/05/94	19	8.7	8.453	11.5	5.6	3.3	1.817	5.6	6.6	9.7	10.8
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/71-09/19/85	19	79.	79.211	98.	48.	158.509	12.59	64.	70.	87.	97.
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	19	1.6	1.511	2.7	0.7	0.317	0.563	0.8	0.9	1.9	2.3
00340	COD, .25N K2CR2O7 MG/L	10/18/68-08/04/81	18 ##	12.5	22.056	47.	12.5	139.908	11.828	12.5	12.5	32.75	39.8
00400p	PH (STANDARD UNITS)	09/09/71-12/05/94	19	7.1	6.905	7.8	6.	0.296	0.544	6.1	6.2	7.2	7.5
00400p	CONVERTED PH (STANDARD UNITS)	09/09/71-12/05/94	19	7.1	6.583	7.8	6.	0.406	0.637	6.1	6.2	7.2	7.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/71-12/05/94	19	0.079	0.261	1.	0.016	0.105	0.324	0.032	0.063	0.631	0.794
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/71-06/26/91	19	27.	27.526	63.	4.	236.374	15.374	9.	17.	31.	59.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/09/71-08/31/87	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-12/05/94	2 ##	0.053	0.053	0.08	0.025	0.002	0.039	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/25/73-12/05/94	2	0.3	0.3	0.4	0.2	0.02	0.141	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/25/73-12/05/94	2	0.32	0.32	0.43	0.21	0.024	0.156	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/25/73-12/05/94	2	0.08	0.08	0.11	0.05	0.002	0.042	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	19	480.	2155.	12000.	5.	11122852.778	3335.094	60.	120.	2800.	7900.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	19	2.681	2.716	4.079	0.699	0.76	0.872	1.778	2.079	3.447	3.898
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			519.748								

** - Less 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 GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	11	14.	13.909	25.	4.	47.091	6.862	4.2	6.	19.	24.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/75-10/21/92	5	1980.	2068.	2480.	1640.	130720.	361.552	**	**	**	**
00065	STAGE, STREAM (FEET)	06/14/73-10/21/92	5	3.42	3.398	4.15	2.9	0.235	0.485	**	**	**	**
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	11	16.	23.727	86.	6.	593.618	24.364	6.2	8.	33.	78.4
00300p	OXYGEN, DISSOLVED MG/L	04/06/72-12/05/94	11	9.1	9.236	12.6	6.8	2.821	1.679	6.86	8.4	9.6	12.38
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/71-09/19/85	11	88.	86.818	96.	74.	47.964	6.926	74.8	80.	93.	95.6
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	11	1.6	2.464	5.	1.3	2.193	1.481	1.3	1.4	4.3	4.96
00340	COD, .25N K2CR2O7 MG/L	10/18/68-08/04/81	11	26.	33.182	110.	5.	774.564	27.831	7.2	20.	42.	96.8
00400p	PH (STANDARD UNITS)	09/09/71-12/05/94	11	7.2	7.173	7.8	6.4	0.116	0.341	6.52	7.	7.3	7.72
00400p	CONVERTED PH (STANDARD UNITS)	09/09/71-12/05/94	11	7.2	7.03	7.8	6.4	0.139	0.372	6.52	7.	7.3	7.72
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/71-12/05/94	11	0.063	0.093	0.398	0.016	0.011	0.104	0.021	0.05	0.1	0.338
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/71-06/26/91	11	27.	32.455	70.	14.	233.873	15.293	15.	25.	36.	65.2
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/09/71-08/31/87	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	6	212.	230.667	454.	61.	18137.467	134.675	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	6	17.5	19.667	53.	2.	321.467	17.929	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-12/05/94	1	0.11	0.11	0.11	0.11	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/25/73-12/05/94	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/25/73-12/05/94	1	0.31	0.31	0.31	0.31	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/25/73-12/05/94	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	11	480.	3808.182	36000.	60.	114144616.364	10683.848	84.	410.	850.	29100.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	11	2.681	2.822	4.556	1.778	0.469	0.685	1.874	2.613	2.929	4.28

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

Annual Analysis for 1976 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			663.992								

** - Less 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 GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	11	16.	15.364	24.	4.	48.055	6.932	4.2	9.	21.	23.8
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	11	11.	15.	54.	2.6	223.79	14.96	2.62	5.4	15.	49.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/04/74-12/14/89	10	245.	235.2	580.	17.	32652.622	180.7	19.3	85.	332.5	566.5
00300p	OXYGEN, DISSOLVED MG/L	04/06/72-12/05/94	11	8.8	9.1	12.7	6.9	3.588	1.894	6.96	7.5	10.6	12.46
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/71-09/19/85	10	90.5	88.7	99.	68.	78.233	8.845	69.3	85.5	94.5	98.7
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	11	1.4	1.555	2.8	1.	0.337	0.58	1.	1.	1.9	2.68
00340	COD, .25N K2CR2O7 MG/L	10/18/68-08/04/81	11	21.	24.636	44.	14.	84.055	9.168	15.	19.	34.	42.4
00400p	PH (STANDARD UNITS)	09/09/71-12/05/94	11	7.	7.1	7.5	6.8	0.076	0.276	6.8	6.9	7.4	7.5
00400p	CONVERTED PH (STANDARD UNITS)	09/09/71-12/05/94	11	7.	7.03	7.5	6.8	0.081	0.285	6.8	6.9	7.4	7.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/71-12/05/94	11	0.1	0.093	0.158	0.032	0.002	0.049	0.032	0.04	0.126	0.158
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/71-06/26/91	11	24.	27.909	74.	12.	291.491	17.073	12.6	15.	33.	66.6
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/09/71-08/31/87	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	11	214.	232.	446.	114.	11492.	107.201	114.2	126.	288.	430.6
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	11	12.	15.	43.	4.	140.	11.832	4.2	7.	15.	40.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-12/05/94	9	0.13	0.181	0.5	0.025	0.021	0.144	0.025	0.1	0.25	0.5
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/25/73-12/05/94	9	0.3	0.444	1.1	0.2	0.098	0.313	0.2	0.2	0.65	1.1
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/25/73-12/05/94	9	0.48	0.56	0.96	0.36	0.048	0.22	0.36	0.395	0.74	0.96
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/25/73-12/05/94	9	0.1	0.102	0.15	0.06	0.001	0.034	0.06	0.07	0.135	0.15
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	11	120.	320.909	990.	20.	110669.091	332.67	28.	90.	690.	932.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	11	2.079	2.251	2.996	1.301	0.28	0.529	1.396	1.954	2.839	2.966
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			178.322								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/20/77-09/19/91	6	0.05	0.047	0.07	0.025	0.	0.018	**	**	**	**

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Annual Analysis for 1978 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	10	15.	14.8	23.	4.	49.956	7.068	4.3	8.5	22.25	23.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/75-10/21/92	2	2145.	2145.	2350.	1940.	84050.	289.914	**	**	**	**
00065	STAGE, STREAM (FEET)	06/14/73-10/21/92	3	3.39	14.813	40.88	0.17	512.195	22.632	**	**	**	**
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	4	17.	17.725	34.	2.9	161.903	12.724	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/04/74-12/14/89	9	200.	264.	600.	21.	48180.5	219.501	21.	82.5	505.	600.
00300p	OXYGEN, DISSOLVED MG/L	04/06/72-12/05/94	9	9.9	9.211	13.1	5.7	5.499	2.345	5.7	7.1	10.8	13.1
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/71-09/19/85	2	97.5	97.5	100.	95.	12.5	3.536	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	11	1.1	1.545	3.6	0.8	0.849	0.921	0.82	1.	1.8	3.48
00340	COD, .25N K2CR2O7 MG/L	10/18/68-08/04/81	11	22.	20.636	36.	5.	117.055	10.819	5.	10.	30.	35.2
00400p	PH (STANDARD UNITS)	09/09/71-12/05/94	11	7.1	7.073	7.3	6.7	0.032	0.179	6.74	6.9	7.2	7.28
00400p	CONVERTED PH (STANDARD UNITS)	09/09/71-12/05/94	11	7.1	7.036	7.3	6.7	0.034	0.183	6.74	6.9	7.2	7.28
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/71-12/05/94	11	0.079	0.092	0.2	0.05	0.002	0.044	0.053	0.063	0.126	0.185
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/71-06/26/91	11	22.	24.	45.	8.	163.6	12.791	8.	13.	32.	44.4
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/09/71-08/31/87	7	0.	0.	0.	0.	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	11	214.	226.818	430.	35.	22097.364	148.652	37.	85.	378.	425.4
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	10	9.	10.35	22.	0.5	59.114	7.689	0.75	3.75	18.	21.9
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-12/05/94	9	0.14	0.193	0.79	0.025	0.056	0.237	0.025	0.055	0.23	0.79
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/25/73-12/05/94	9	0.3	0.439	1.2	0.05	0.105	0.324	0.05	0.3	0.55	1.2
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/25/73-12/05/94	9	0.47	0.434	0.64	0.11	0.022	0.149	0.11	0.37	0.515	0.64
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/25/73-12/05/94	9	0.09	0.09	0.13	0.05	0.001	0.029	0.05	0.065	0.12	0.13

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Annual Analysis for 1978 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	11	35.	361.818	2400.	10.	488851.364	699.179	12.	20.	420.	2020.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	11	1.544	1.956	3.38	1.	0.599	0.774	1.06	1.301	2.623	3.244
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			90.312								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/20/77-09/19/91	9 ##	0.025	0.035	0.08	0.025	0.	0.02	0.025	0.025	0.043	0.08
81647	REFERENCE POINT READING(LINEAR FEET)	10/23/78-10/21/92	2	42.39	42.39	44.17	40.61	6.337	2.517	**	**	**	**

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Annual Analysis for 1979 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	12	13.	13.667	22.	4.	35.515	5.959	5.2	8.25	19.75	21.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/75-10/21/92	6	2895.	2791.667	6500.	108.	5108874.267	2260.282	**	**	**	**
00065	STAGE, STREAM (FEET)	06/14/73-10/21/92	6	3.71	3.367	5.67	0.91	2.725	1.651	**	**	**	**
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	3	20.	22.	35.	11.	147.	12.124	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/04/74-12/14/89	9	160.	147.222	290.	40.	7969.444	89.272	40.	47.5	215.	290.
00300p	OXYGEN, DISSOLVED MG/L	04/06/72-12/05/94	12	8.9	9.092	10.9	7.9	0.946	0.973	7.96	8.2	9.875	10.69
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	12	1.05	0.95	1.3	0.4	0.094	0.306	0.43	0.725	1.2	1.3
00340	COD, .25N K2CR2O7 MG/L	10/18/68-08/04/81	12	13.	14.	25.	5.	31.455	5.608	6.5	10.25	16.5	24.4
00400p	PH (STANDARD UNITS)	09/09/71-12/05/94	9	7.	7.033	7.3	6.9	0.02	0.141	6.9	6.9	7.15	7.3
00400p	CONVERTED PH (STANDARD UNITS)	09/09/71-12/05/94	9	7.	7.015	7.3	6.9	0.02	0.143	6.9	6.9	7.15	7.3
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/71-12/05/94	9	0.1	0.097	0.126	0.05	0.001	0.028	0.05	0.071	0.126	0.126
00403	PH, LAB, STANDARD UNITS SU	11/28/79-06/26/91	2	6.95	6.95	7.	6.9	0.005	0.071	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-06/26/91	2	6.947	6.947	7.	6.9	0.005	0.071	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-06/26/91	2	0.113	0.113	0.126	0.1	0.	0.018	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/71-06/26/91	11	16.	16.091	28.	8.	39.091	6.252	8.4	10.	21.	26.8
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/09/71-08/31/87	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	12	128.	143.	318.	49.	5250.727	72.462	58.9	90.25	185.5	283.2
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	12	10.	11.583	26.	4.	44.811	6.694	4.6	6.25	16.5	24.5
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-12/05/94	11	0.07	1.065	11.	0.025	10.859	3.295	0.025	0.025	0.11	8.83
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/25/73-12/05/94	12	0.35	0.333	0.5	0.2	0.01	0.098	0.2	0.225	0.4	0.47
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/25/73-12/05/94	11	0.37	0.386	0.56	0.28	0.006	0.08	0.288	0.34	0.42	0.546
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/25/73-12/05/94	11	0.07	0.071	0.1	0.025	0.001	0.026	0.025	0.06	0.09	0.1
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	12	320.	461.25	1500.	20.	225536.932	474.907	26.	92.5	842.5	1380.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	12	2.505	2.39	3.176	1.301	0.343	0.586	1.391	1.86	2.892	3.136
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			245.556								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/20/77-09/19/91	10 ##	0.025	0.031	0.06	0.025	0.	0.013	0.025	0.025	0.031	0.059
81647	REFERENCE POINT READING(LINEAR FEET)	10/23/78-10/21/92	6	40.29	40.633	43.09	38.33	2.725	1.651	**	**	**	**

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Annual Analysis for 1980 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	11	14.	14.727	24.	7.	38.618	6.214	7.2	8.	20.	24.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/75-10/21/92	7	2370.	1716.429	3720.	30.	2043543.952	1429.526	**	**	**	**
00065	STAGE, STREAM (FEET)	06/14/73-10/21/92	7	3.4	2.517	4.17	0.21	2.313	1.521	**	**	**	**
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	9	4.5	58.389	380.	0.5	16028.726	126.605	0.5	2.9	62.95	380.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/04/74-12/14/89	10	295.5	379.8	1000.	112.	77386.4	278.184	112.8	142.5	535.75	962.8
00300p	OXYGEN, DISSOLVED MG/L	04/06/72-12/05/94	11	8.7	9.145	11.4	7.	1.871	1.368	7.16	8.3	10.5	11.32
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	12	1.05	2.283	14.	0.4	14.28	3.779	0.49	0.8	1.575	10.88
00340	COD, .25N K2CR2O7 MG/L	10/18/68-08/04/81	12	17.5	27.75	82.	5.	710.75	26.66	5.	7.	40.75	80.2
00400p	PH (STANDARD UNITS)	09/09/71-12/05/94	3	7.	7.133	7.6	6.8	0.173	0.416	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/09/71-12/05/94	3	7.	7.024	7.6	6.8	0.191	0.437	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/71-12/05/94	3	0.1	0.095	0.158	0.025	0.004	0.067	**	**	**	**

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Annual Analysis for 1980 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	11/28/79-06/26/91	12	7.25	7.267	7.7	7.	0.041	0.202	7.	7.125	7.375	7.64
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-06/26/91	12	7.247	7.228	7.7	7.	0.042	0.206	7.	7.125	7.375	7.64
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-06/26/91	12	0.057	0.059	0.1	0.02	0.001	0.025	0.023	0.042	0.075	0.1
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/71-06/26/91	12	21.5	29.333	61.	10.	273.515	16.538	11.5	17.	47.	57.4
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/09/71-08/31/87	8	0.	0.	0.	0.	0.	0.	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	2	18.	18.	21.	15.	18.	4.243	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	12	173.	310.167	779.	68.	81877.424	286.142	71.	91.75	644.5	778.7
00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/06/80-01/25/85	4	134.5	138.	219.	64.	6000.667	77.464	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	08/06/80-01/25/85	4	444.5	377.	589.	30.	67048.667	258.938	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	12	9.	48.583	319.	3.	10016.083	100.08	3.3	4.5	11.75	280.3
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/06/80-01/25/85	4	20.5	27.75	66.	4.	814.917	28.547	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	08/06/80-01/25/85	4	79.	102.875	253.	0.5	15442.063	124.266	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-12/05/94	10	0.095	0.112	0.21	0.05	0.004	0.059	0.051	0.06	0.155	0.209
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/25/73-12/05/94	10	0.4	0.47	1.2	0.2	0.08	0.283	0.21	0.3	0.525	1.14
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/25/73-12/05/94	10	0.475	0.656	2.1	0.35	0.278	0.527	0.351	0.39	0.688	1.973
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/25/73-12/05/94	10	0.115	0.164	0.54	0.025	0.021	0.145	0.031	0.087	0.205	0.508
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	12	82.5	476.667	3800.	5.	1136746.97	1066.183	6.5	30.	460.	2843.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	12	1.916	2.005	3.58	0.699	0.659	0.812	0.789	1.477	2.66	3.341
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			101.225								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/20/77-09/19/91	3	0.14	0.133	0.15	0.11	0.	0.021	**	**	**	**
81647	REFERENCE POINT READING(LINEAR FEET)	10/23/78-10/21/92	9	42.25	41.901	43.96	39.83	2.481	1.575	39.83	40.495	43.475	43.96

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Annual Analysis for 1981 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	12	13.5	13.	23.	3.	40.182	6.339	3.3	8.25	19.25	22.1
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/75-10/21/92	10	1270.	1271.6	3370.	76.	1404259.6	1185.015	77.3	96.5	2255.	3263.
00065	STAGE, STREAM (FEET)	06/14/73-10/21/92	10	2.56	2.258	4.35	0.47	2.179	1.476	0.487	0.745	3.485	4.313
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	12	4.	5.	15.	2.	13.636	3.693	2.	2.25	6.	12.9
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	4	352.	428.	978.	30.	208269.333	456.365	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/04/74-12/14/89	7	249.	327.571	670.	50.	60469.619	245.906	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	04/06/72-12/05/94	12	9.	9.367	12.4	6.9	2.366	1.538	7.26	8.4	10.425	12.16
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/71-09/19/85	1	76.	76.	76.	76.	0.	0.	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	12	1.25	1.242	2.4	0.4	0.368	0.607	0.46	0.6	1.6	2.25
00340	COD, .25N K2CR2O7 MG/L	10/18/68-08/04/81	5	18.	21.2	41.	5.	178.7	13.368	**	**	**	**
00400p	PH (STANDARD UNITS)	09/09/71-12/05/94	11	7.2	7.227	7.8	6.9	0.068	0.261	6.92	7.1	7.3	7.76
00400p	CONVERTED PH (STANDARD UNITS)	09/09/71-12/05/94	11	7.2	7.169	7.8	6.9	0.072	0.268	6.92	7.1	7.3	7.76
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/71-12/05/94	11	0.063	0.068	0.126	0.016	0.001	0.031	0.018	0.05	0.079	0.121
00403	PH, LAB, STANDARD UNITS SU	11/28/79-06/26/91	12	7.15	7.167	7.4	6.9	0.024	0.156	6.93	7.025	7.3	7.37
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-06/26/91	12	7.147	7.141	7.4	6.9	0.025	0.158	6.93	7.025	7.3	7.37
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-06/26/91	12	0.071	0.072	0.126	0.04	0.001	0.026	0.043	0.05	0.095	0.118
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/71-06/26/91	12	29.5	33.833	80.	9.	517.061	22.739	9.3	13.75	50.5	74.9
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	11	35.	36.909	76.	8.	596.091	24.415	8.2	14.	55.	75.4
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	12	248.	286.583	678.	49.	43244.992	207.954	54.1	94.75	445.25	650.4
00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/06/80-01/25/85	11	60.	68.727	138.	16.	1285.418	35.853	19.6	40.	99.	130.4
00510	RESIDUE, TOTAL FIXED (MG/L)	08/06/80-01/25/85	11	109.	201.727	579.	26.	35992.818	189.718	27.4	41.	308.	562.8
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	12	6.	8.333	23.	4.	30.788	5.549	4.	4.25	10.75	20.
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/06/80-01/25/85	11	4.	3.727	8.	0.5	5.368	2.317	0.5	1.	5.	7.4
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	08/06/80-01/25/85	11	4.	4.682	15.	0.5	17.014	4.125	0.6	1.	6.	13.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-12/05/94	10	0.08	0.081	0.18	0.025	0.003	0.051	0.025	0.025	0.12	0.174
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/25/73-12/05/94	10	0.45	0.38	0.6	0.1	0.037	0.193	0.1	0.175	0.525	0.6
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/25/73-12/05/94	10	0.445	0.499	0.83	0.23	0.045	0.213	0.232	0.34	0.688	0.827
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/25/73-12/05/94	10	0.15	0.162	0.38	0.025	0.016	0.126	0.025	0.025	0.258	0.376
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	11	110.	403.636	2100.	20.	388265.455	623.11	22.	40.	560.	1854.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	11	2.041	2.186	3.322	1.301	0.417	0.646	1.336	1.602	2.748	3.246

** - Less 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 GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			153.421								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/20/77-09/19/91	10	0.09	0.113	0.27	0.025	0.008	0.092	0.025	0.025	0.205	0.268
81647	REFERENCE POINT READING(LINEAR FEET)	10/23/78-10/21/92	10	41.44	41.742	43.53	39.65	2.179	1.476	39.687	40.515	43.255	43.513

** - Less 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 GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	12	16.	15.083	24.	4.	36.265	6.022	5.2	10.25	19.75	23.1
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/75-10/21/92	12	2170.	2104.667	3700.	54.	1481300.606	1217.087	63.6	1154.5	3187.5	3619.
00065	STAGE, STREAM (FEET)	06/14/73-10/21/92	12	3.275	2.929	4.13	0.15	1.686	1.298	0.285	2.448	3.87	4.094
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	12	3.75	6.158	25.	1.	43.064	6.562	1.	2.25	7.75	20.5
00080	COLOR (PLATINUM-COBALT UNITS)	05/16/68-12/05/94	3	48.	61.667	90.	47.	602.333	24.542	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	11	280.	312.	586.	39.	39855.2	199.638	49.2	164.	517.	583.2
00300p	OXYGEN, DISSOLVED MG/L	04/06/72-12/05/94	12	9.2	9.083	11.8	6.1	2.809	1.676	6.37	7.95	10.175	11.71
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/71-09/19/85	9	90.	89.222	100.	78.	53.444	7.311	78.	83.	96.	100.
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	12	1.1	1.1	2.	0.1	0.376	0.613	0.13	0.725	1.625	2.
00400p	PH (STANDARD UNITS)	09/09/71-12/05/94	11	7.1	7.155	7.5	6.9	0.031	0.175	6.9	7.1	7.3	7.46
00400p	CONVERTED PH (STANDARD UNITS)	09/09/71-12/05/94	11	7.1	7.124	7.5	6.9	0.032	0.178	6.9	7.1	7.3	7.46
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/71-12/05/94	11	0.079	0.075	0.126	0.032	0.001	0.029	0.035	0.05	0.079	0.126
00403	PH, LAB, STANDARD UNITS SU	11/28/79-06/26/91	12	7.1	7.108	7.4	6.8	0.034	0.183	6.83	7.	7.3	7.37
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-06/26/91	12	7.1	7.074	7.4	6.8	0.035	0.187	6.83	7.	7.3	7.37
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-06/26/91	12	0.079	0.084	0.158	0.04	0.001	0.035	0.043	0.05	0.1	0.149
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/71-06/26/91	12	22.	26.333	49.	9.	176.061	13.269	10.5	17.5	39.	48.7
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	11	19.	24.909	47.	7.	167.491	12.942	8.4	16.	40.	46.
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	12	159.5	204.417	423.	37.	17137.538	130.91	46.	131.25	348.5	417.
00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/06/80-01/25/85	12	61.5	60.333	123.	14.	807.152	28.41	15.8	45.75	73.75	108.9
00510	RESIDUE, TOTAL FIXED (MG/L)	08/06/80-01/25/85	12	106.	144.417	329.	23.	11926.992	109.211	30.2	71.5	262.75	326.3
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	12	8.5	8.708	20.	0.5	31.112	5.578	0.95	4.25	12.75	18.2
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/06/80-01/25/85	12	4.	3.5	7.	0.5	4.045	2.011	0.5	2.	4.75	6.7
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	08/06/80-01/25/85	12	5.	5.375	15.	0.5	23.369	4.834	0.5	0.625	7.75	14.4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-12/05/94	12	0.075	0.071	0.14	0.025	0.002	0.041	0.025	0.025	0.105	0.134
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/25/73-12/05/94	12	0.3	0.313	0.5	0.05	0.02	0.142	0.065	0.225	0.4	0.5
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/25/73-12/05/94	12	0.47	0.423	0.55	0.13	0.019	0.136	0.148	0.39	0.525	0.547
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/25/73-12/05/94	12	0.14	0.153	0.39	0.025	0.009	0.096	0.025	0.12	0.188	0.342
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	12	75.	228.333	950.	5.	93310.606	305.468	6.5	26.25	360.	875.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	12	1.874	1.931	2.978	0.699	0.512	0.716	0.789	1.327	2.551	2.938
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			85.292								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/20/77-09/19/91	10	0.09	0.09	0.16	0.025	0.002	0.048	0.025	0.051	0.128	0.159
81647	REFERENCE POINT READING(LINEAR FEET)	10/23/78-10/21/92	12	40.725	41.071	43.85	39.87	1.686	1.298	39.906	40.13	41.552	43.715

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Annual Analysis for 1983 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	12	13.5	14.042	23.	6.	32.294	5.683	6.6	9.125	19.	22.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/75-10/21/92	12	1770.	1736.5	4040.	73.	1749135.909	1322.549	73.	275.5	2962.5	3791.
00065	STAGE, STREAM (FEET)	06/14/73-10/21/92	12	2.985	2.583	4.35	0.41	1.931	1.39	0.413	1.023	3.758	4.212
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	12	3.45	5.8	23.	0.5	55.805	7.47	0.5	1.85	4.35	22.1
00080	COLOR (PLATINUM-COBALT UNITS)	05/16/68-12/05/94	12	50.	55.75	120.	8.	1475.477	38.412	8.3	16.25	83.	117.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	12	204.	292.75	900.	50.	70340.75	265.218	56.9	85.5	474.25	813.
00300p	OXYGEN, DISSOLVED MG/L	04/06/72-12/05/94	12	9.1	9.475	11.9	7.1	1.698	1.303	7.49	8.6	10.525	11.57
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/71-09/19/85	11	92.	89.636	99.	74.	56.455	7.514	75.8	83.	95.	98.8

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Annual Analysis for 1983 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	12	1.1	1.025	1.9	0.2	0.309	0.556	0.26	0.5	1.5	1.78
00400p	PH (STANDARD UNITS)	09/09/71-12/05/94	11	7.2	7.227	7.7	6.9	0.044	0.21	6.92	7.1	7.3	7.64
00400p	CONVERTED PH (STANDARD UNITS)	09/09/71-12/05/94	11	7.2	7.185	7.7	6.9	0.046	0.215	6.92	7.1	7.3	7.64
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/71-12/05/94	11	0.063	0.065	0.126	0.02	0.001	0.029	0.024	0.05	0.079	0.121
00403	PH, LAB, STANDARD UNITS SU	11/28/79-06/26/91	12	7.1	7.133	7.4	6.9	0.03	0.172	6.9	7.	7.275	7.4
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-06/26/91	12	7.1	7.103	7.4	6.9	0.031	0.175	6.9	7.	7.275	7.4
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-06/26/91	12	0.079	0.079	0.126	0.04	0.001	0.03	0.04	0.053	0.1	0.126
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/71-06/26/91	12	21.	25.75	56.	10.	255.841	15.995	10.	11.75	39.75	54.2
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	11	19.	23.455	56.	9.	253.473	15.921	9.2	10.	34.	54.2
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	12	150.	198.	610.	43.	28578.364	169.051	44.8	74.	265.	553.
00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/06/80-01/25/85	12	42.	48.25	150.	6.	1283.295	35.823	11.7	26.75	56.75	122.1
00510	RESIDUE, TOTAL FIXED (MG/L)	08/06/80-01/25/85	12	103.	151.5	470.	23.	19604.455	140.016	27.2	45.75	210.	440.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	12	6.5	8.167	22.	0.5	55.379	7.442	0.5	1.5	13.	21.7
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/06/80-01/25/85	12	4.	3.875	8.	0.5	6.869	2.621	0.5	0.875	6.	7.7
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	08/06/80-01/25/85	12	1.	4.5	20.	0.5	42.727	6.537	0.5	0.5	7.	18.5
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-12/05/94	12	0.1	0.093	0.2	0.01	0.003	0.057	0.016	0.045	0.12	0.191
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/25/73-12/05/94	12	0.35	0.338	0.6	0.05	0.036	0.19	0.065	0.2	0.5	0.6
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/25/73-12/05/94	12	0.415	0.433	0.8	0.24	0.027	0.163	0.24	0.29	0.505	0.749
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/25/73-12/05/94	12	0.105	0.133	0.29	0.04	0.007	0.084	0.04	0.053	0.2	0.278
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	12	310.	481.25	2200.	5.	382955.114	618.834	6.5	35.	750.	1789.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	12	2.49	2.22	3.342	0.699	0.693	0.832	0.789	1.452	2.875	3.215
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			165.944								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/20/77-09/19/91	12	0.05	0.076	0.18	0.02	0.003	0.058	0.02	0.025	0.13	0.177
81647	REFERENCE POINT READING(LINEAR FEET)	10/23/78-10/21/92	12	41.015	41.417	43.59	39.65	1.931	1.39	39.788	40.243	42.978	43.587

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Annual Analysis for 1984 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	12	12.	12.25	20.	4.	34.568	5.879	4.6	6.25	18.5	19.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/75-10/21/92	12	1900.	1622.725	3610.	0.7	1335897.035	1155.81	16.09	715.	2225.	3517.
00065	STAGE, STREAM (FEET)	06/14/73-10/21/92	12	3.25	363.613	4331.	0.12	1561008.388	1249.403	0.777	2.575	3.895	3032.933
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	12	3.6	3.967	12.	0.5	10.762	3.281	0.65	1.95	3.8	11.04
00080	COLOR (PLATINUM-COBALT UNITS)	05/16/68-12/05/94	11	75.	80.091	160.	12.	2663.091	51.605	13.	34.	130.	156.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	12	177.5	239.833	670.	35.	37962.697	194.84	38.	76.25	371.25	611.5
00300p	OXYGEN, DISSOLVED MG/L	04/06/72-12/05/94	12	10.05	9.775	11.7	7.2	2.184	1.478	7.26	8.725	11.	11.61
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/71-09/19/85	6	88.5	86.667	91.	78.	21.867	4.676	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	12	1.1	1.125	1.9	0.5	0.204	0.452	0.53	0.725	1.525	1.84
00400p	PH (STANDARD UNITS)	09/09/71-12/05/94	12	7.1	7.108	7.4	7.	0.015	0.124	7.	7.	7.1	7.37
00400p	CONVERTED PH (STANDARD UNITS)	09/09/71-12/05/94	12	7.1	7.094	7.4	7.	0.016	0.125	7.	7.	7.1	7.37
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/71-12/05/94	12	0.079	0.081	0.1	0.04	0.	0.019	0.043	0.079	0.1	0.1
00403	PH, LAB, STANDARD UNITS SU	11/28/79-06/26/91	12	7.1	7.067	7.3	6.8	0.015	0.123	6.86	7.	7.1	7.27
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-06/26/91	12	7.1	7.05	7.3	6.8	0.015	0.124	6.86	7.	7.1	7.27
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-06/26/91	12	0.079	0.089	0.158	0.05	0.001	0.027	0.054	0.079	0.1	0.141
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/71-06/26/91	12	20.5	22.333	45.	6.	146.97	12.123	7.2	13.5	31.75	43.5
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	12	18.5	20.917	43.	5.	148.083	12.169	5.9	12.25	28.	42.4
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	12	140.	177.25	450.	36.	16620.932	128.922	39.3	61.	257.5	420.
00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/06/80-01/25/85	12	35.5	42.083	96.	14.	593.356	24.359	15.8	24.25	52.	90.9
00510	RESIDUE, TOTAL FIXED (MG/L)	08/06/80-01/25/85	12	105.5	134.	350.	22.	10786.364	103.857	22.6	39.	200.	326.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	12	4.	4.875	13.	0.5	13.369	3.656	0.95	2.	6.75	12.1
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/06/80-01/25/85	12	3.5	3.708	9.	0.5	4.839	2.2	0.95	2.	5.	7.8
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	08/06/80-01/25/85	12 ##	0.5	1.5	5.	0.5	3.	1.732	0.5	0.5	3.25	4.7
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-12/05/94	12	0.1	0.112	0.2	0.02	0.004	0.066	0.026	0.06	0.185	0.197
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/25/73-12/05/94	12	0.25	0.304	0.6	0.05	0.03	0.174	0.065	0.2	0.475	0.57
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/25/73-12/05/94	12	0.42	0.426	0.89	0.14	0.04	0.199	0.158	0.265	0.543	0.794
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/25/73-12/05/94	11	0.1	0.139	0.34	0.02	0.013	0.116	0.02	0.04	0.22	0.34

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Annual Analysis for 1984 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	12	45.	95.833	400.	5.	14567.424	120.696	5.	12.5	137.5	355.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	12	1.628	1.619	2.602	0.699	0.409	0.639	0.699	1.075	2.132	2.541
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			41.618								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/20/77-09/19/91	12	0.055	0.091	0.26	0.01	0.008	0.089	0.01	0.028	0.145	0.26
81647	REFERENCE POINT READING(LINEAR FEET)	10/23/78-10/21/92	12	40.895	123.47	1030.	39.89	81501.579	285.485	39.929	40.425	41.635	734.164

** - Less 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 GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	12	14.25	13.708	22.	2.	36.748	6.062	3.5	10.	18.75	22.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/75-10/21/92	10	1360.	1768.4	8000.	39.	5255695.6	2292.53	39.1	415.	1780.	7402.
00065	STAGE, STREAM (FEET)	06/14/73-10/21/92	10	3.135	2.844	6.55	0.02	3.34	1.828	0.048	1.673	3.485	6.257
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	4 ##	1.4	1.675	3.4	0.5	2.043	1.429	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	05/16/68-12/05/94	12	61.	66.083	140.	4.	2406.992	49.061	4.9	17.25	117.5	137.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	12	178.5	257.167	700.	37.	54801.424	234.097	43.3	85.75	397.5	700.
00300p	OXYGEN, DISSOLVED MG/L	04/06/72-12/05/94	12	9.75	9.175	10.9	5.6	2.791	1.671	5.78	8.75	10.225	10.87
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/71-09/19/85	6	95.	86.167	98.	64.	225.367	15.012	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	4	1.1	1.1	1.7	0.5	0.3	0.548	**	**	**	**
00400p	PH (STANDARD UNITS)	09/09/71-12/05/94	11	7.	6.991	7.5	6.5	0.057	0.239	6.58	6.9	7.	7.44
00400p	CONVERTED PH (STANDARD UNITS)	09/09/71-12/05/94	11	7.	6.931	7.5	6.5	0.061	0.247	6.58	6.9	7.	7.44
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/71-12/05/94	11	0.1	0.117	0.316	0.032	0.005	0.072	0.038	0.1	0.126	0.278
00403	PH, LAB, STANDARD UNITS SU	11/28/79-06/26/91	12	7.15	7.117	7.5	6.8	0.036	0.19	6.83	7.	7.2	7.44
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-06/26/91	12	7.147	7.08	7.5	6.8	0.038	0.194	6.83	7.	7.2	7.44
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-06/26/91	12	0.071	0.083	0.158	0.032	0.001	0.035	0.037	0.063	0.1	0.149
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/71-06/26/91	12	22.	25.25	43.	7.	168.932	12.997	8.5	15.25	40.75	42.7
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	11	17.	24.	50.	7.	231.8	15.225	8.	13.	41.	49.6
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	12	150.	190.5	430.	50.	16944.636	130.172	55.1	75.25	310.	415.
00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/06/80-01/25/85	1	61.	61.	61.	61.	0.	0.	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	08/06/80-01/25/85	1	260.	260.	260.	260.	0.	0.	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	12	5.	4.958	12.	0.5	11.657	3.414	0.65	2.	7.	11.1
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/06/80-01/25/85	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	08/06/80-01/25/85	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-12/05/94	4	0.12	0.098	0.14	0.01	0.004	0.06	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/25/73-12/05/94	4	0.3	0.3	0.4	0.2	0.007	0.082	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/25/73-12/05/94	4	0.545	0.563	0.9	0.26	0.069	0.262	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/25/73-12/05/94	4	0.17	0.155	0.26	0.02	0.014	0.119	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	12	20.	65.417	360.	5.	10347.538	101.723	5.	6.25	97.5	291.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	12	1.301	1.424	2.556	0.699	0.373	0.61	0.699	0.774	1.976	2.424
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			26.566								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/20/77-09/19/91	4	0.12	0.108	0.18	0.01	0.007	0.086	**	**	**	**
81647	REFERENCE POINT READING(LINEAR FEET)	10/23/78-10/21/92	10	40.865	41.155	44.02	37.45	3.374	1.837	37.738	40.503	42.328	43.988

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Annual Analysis for 1986 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	10	16.5	15.	23.	4.	43.111	6.566	4.1	9.5	20.25	22.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/75-10/21/92	9	63.	353.111	1850.	25.	363097.361	602.576	25.	31.	515.	1850.
00065	STAGE, STREAM (FEET)	06/14/73-10/21/92	9	0.41	1.086	3.54	0.13	1.451	1.204	0.13	0.18	2.03	3.54
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	4	1.2	1.125	1.6	0.5	0.236	0.486	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	05/16/68-12/05/94	7	23.	65.286	140.	10.	3712.238	60.928	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	8	81.	207.125	660.	24.	51597.839	227.152	**	**	**	**

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Annual Analysis for 1986 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00300p	OXYGEN, DISSOLVED MG/L	04/06/72-12/05/94	10	8.6	9.21	12.2	7.4	2.492	1.579	7.4	8.075	10.55	12.08
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	4	1.6	1.425	2.2	0.3	0.643	0.802	**	**	**	**
00400p	PH (STANDARD UNITS)	09/09/71-12/05/94	10	7.	7.09	7.5	6.8	0.061	0.247	6.8	6.875	7.325	7.49
00400p	CONVERTED PH (STANDARD UNITS)	09/09/71-12/05/94	10	7.	7.033	7.5	6.8	0.065	0.254	6.8	6.875	7.325	7.49
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/71-12/05/94	10	0.1	0.093	0.158	0.032	0.002	0.046	0.032	0.048	0.134	0.158
00403	PH, LAB, STANDARD UNITS SU	11/28/79-06/26/91	10	7.	7.02	7.5	6.7	0.046	0.215	6.72	6.9	7.1	7.46
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-06/26/91	10	6.989	6.978	7.5	6.7	0.048	0.22	6.72	6.9	7.1	7.46
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-06/26/91	10	0.103	0.105	0.2	0.032	0.002	0.046	0.036	0.079	0.126	0.192
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/71-06/26/91	10	12.	19.1	42.	8.	144.544	12.023	8.1	9.75	28.75	40.9
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	8	20.	22.875	51.	9.	214.125	14.633	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	10	77.5	166.1	410.	49.	19932.544	141.183	49.8	58.5	307.5	405.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	10	2.	2.3	6.	0.5	3.511	1.874	0.5	0.875	3.5	5.9
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-12/05/94	3	0.15	0.13	0.19	0.05	0.005	0.072	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/25/73-12/05/94	3	0.4	0.333	0.4	0.2	0.013	0.115	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/25/73-12/05/94	3	0.59	0.573	0.86	0.27	0.087	0.295	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/25/73-12/05/94	3	0.2	0.18	0.3	0.04	0.017	0.131	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	9	10.	26.111	80.	5.	742.361	27.246	5.	5.	45.	80.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	9	1.	1.192	1.903	0.699	0.227	0.476	0.699	0.699	1.628	1.903
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			15.577								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/20/77-09/19/91	3	0.14	0.143	0.26	0.03	0.013	0.115	**	**	**	**
81647	REFERENCE POINT READING(LINEAR FEET)	10/23/78-10/21/92	9	43.59	42.914	43.87	40.46	1.451	1.204	40.46	41.97	43.82	43.87

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Annual Analysis for 1987 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	4	15.5	15.	23.	6.	68.667	8.287	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/75-10/21/92	2	58.5	58.5	102.	15.	3784.5	61.518	**	**	**	**
00065	STAGE, STREAM (FEET)	06/14/73-10/21/92	2	0.435	0.435	0.82	0.05	0.296	0.544	**	**	**	**
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	4	2.45	2.475	3.5	1.5	1.149	1.072	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	05/16/68-12/05/94	1	240.	240.	240.	240.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	4	460.	440.5	810.	32.	139787.667	373.882	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	04/06/72-12/05/94	4	8.85	9.075	11.	7.6	1.996	1.413	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	4	1.65	1.65	2.3	1.	0.483	0.695	**	**	**	**
00400p	PH (STANDARD UNITS)	09/09/71-12/05/94	3	7.1	7.2	7.4	7.1	0.03	0.173	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/09/71-12/05/94	3	7.1	7.179	7.4	7.1	0.031	0.175	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/71-12/05/94	3	0.079	0.066	0.079	0.04	0.001	0.023	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/28/79-06/26/91	4	7.1	7.075	7.3	6.8	0.049	0.222	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-06/26/91	4	7.089	7.032	7.3	6.8	0.052	0.227	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-06/26/91	4	0.082	0.093	0.158	0.05	0.002	0.049	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/71-06/26/91	3	21.	28.333	55.	9.	569.333	23.861	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/09/71-08/31/87	1	44.	44.	44.	44.	0.	0.	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	2	50.5	50.5	57.	44.	84.5	9.192	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	4	325.	303.5	530.	34.	52035.667	228.113	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	4	6.5	6.25	9.	3.	7.583	2.754	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-12/05/94	3	0.07	0.107	0.21	0.04	0.008	0.091	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/25/73-12/05/94	3	0.3	0.267	0.4	0.1	0.023	0.153	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/25/73-12/05/94	3	1.2	1.013	1.2	0.64	0.105	0.323	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/25/73-12/05/94	3	0.12	0.127	0.23	0.03	0.01	0.1	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	3	10.	50.	130.	10.	4800.	69.282	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	3	1.	1.371	2.114	1.	0.414	0.643	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			23.513								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/20/77-09/19/91	3	0.1	0.083	0.14	0.01	0.004	0.067	**	**	**	**
81647	REFERENCE POINT READING(LINEAR FEET)	10/23/78-10/21/92	2	43.615	43.615	44.05	43.18	0.378	0.615	**	**	**	**

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Annual Analysis for 1988 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	4	10.	12.5	24.	6.	73.	8.544	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/75-10/21/92	2	1890.	1890.	2300.	1480.	336200.	579.828	**	**	**	**
00065	STAGE, STREAM (FEET)	06/14/73-10/21/92	2	3.62	3.62	3.94	3.3	0.205	0.453	**	**	**	**
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	4	6.15	5.3	7.4	1.5	6.78	2.604	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	05/16/68-12/05/94	2	103.	103.	110.	96.	98.	9.899	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	4	417.5	463.75	730.	290.	35322.917	187.944	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	04/06/72-12/05/94	4	8.95	9.4	11.9	7.8	3.553	1.885	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	4	1.35	1.4	1.7	1.2	0.047	0.216	**	**	**	**
00400p	PH (STANDARD UNITS)	09/09/71-12/05/94	4	7.05	6.925	7.1	6.5	0.082	0.287	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/09/71-12/05/94	4	7.047	6.842	7.1	6.5	0.092	0.303	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/71-12/05/94	4	0.09	0.144	0.316	0.079	0.013	0.115	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/28/79-06/26/91	4	7.15	7.175	7.3	7.1	0.009	0.096	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-06/26/91	4	7.147	7.167	7.3	7.1	0.009	0.096	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-06/26/91	4	0.071	0.068	0.079	0.05	0.	0.014	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/71-06/26/91	4	41.	41.25	54.	29.	128.25	11.325	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	4	41.	41.25	58.	25.	192.25	13.865	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	4	300.	330.	490.	230.	13533.333	116.333	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	4	3.	3.75	8.	1.	9.583	3.096	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-12/05/94	3	0.07	0.107	0.19	0.06	0.005	0.072	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/25/73-12/05/94	3	0.2	0.213	0.3	0.14	0.007	0.081	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/25/73-12/05/94	3	0.71	0.693	0.75	0.62	0.004	0.067	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/25/73-12/05/94	3	0.18	0.167	0.2	0.12	0.002	0.042	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	4	115.	97.5	150.	10.	4491.667	67.02	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	4	2.04	1.814	2.176	1.	0.311	0.558	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			65.136								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/20/77-09/19/91	3	0.14	0.123	0.14	0.09	0.001	0.029	**	**	**	**
81647	REFERENCE POINT READING(LINEAR FEET)	10/23/78-10/21/92	2	40.38	40.38	40.7	40.06	0.205	0.453	**	**	**	**

** - Less 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 GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	5	12.	12.7	22.	5.5	52.95	7.277	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/75-10/21/92	3	1830.	1465.667	2400.	167.	1346126.333	1160.227	**	**	**	**
00065	STAGE, STREAM (FEET)	06/14/73-10/21/92	3	3.59	2.917	3.99	1.17	2.328	1.526	**	**	**	**
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	5	5.	5.06	7.	2.	3.818	1.954	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	05/16/68-12/05/94	4	50.	53.	68.	44.	110.667	10.52	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	4	205.	221.25	350.	125.	9206.25	95.949	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/04/74-12/14/89	1	214.	214.	214.	214.	0.	0.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	04/06/72-12/05/94	5	9.9	9.38	11.2	7.2	3.212	1.792	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	5	0.9	1.11	2.3	0.05	0.798	0.893	**	**	**	**
00400p	PH (STANDARD UNITS)	09/09/71-12/05/94	5	7.	7.024	7.3	6.8	0.054	0.232	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/09/71-12/05/94	5	7.	6.977	7.3	6.8	0.057	0.238	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/71-12/05/94	5	0.1	0.105	0.158	0.05	0.003	0.052	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/28/79-06/26/91	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-06/26/91	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-06/26/91	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/71-06/26/91	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	4	22.5	25.75	41.	17.	110.25	10.5	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	5	160.	164.	240.	110.	2330.	48.27	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	5	5.	5.	7.	3.	2.5	1.581	**	**	**	**
81647	REFERENCE POINT READING(LINEAR FEET)	10/23/78-10/21/92	3	40.41	41.083	42.83	40.01	2.328	1.526	**	**	**	**

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Annual Analysis for 1990 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	4	14.5	15.	21.	10.	34.	5.831	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/75-10/21/92	3	1500.	2066.667	3400.	1300.	1343333.333	1159.023	**	**	**	**
00065	STAGE, STREAM (FEET)	06/14/73-10/21/92	3	3.32	3.663	4.51	3.16	0.544	0.738	**	**	**	**
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	4	4.5	4.375	7.	1.5	6.563	2.562	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	05/16/68-12/05/94	1	73.	73.	73.	73.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	4	207.5	247.	500.	73.	39472.667	198.677	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	04/06/72-12/05/94	4	9.7	9.075	10.6	6.3	3.929	1.982	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	4	1.1	1.275	2.3	0.6	0.582	0.763	**	**	**	**
00400p	PH (STANDARD UNITS)	09/09/71-12/05/94	4	7.2	7.225	7.3	7.2	0.002	0.05	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/09/71-12/05/94	4	7.2	7.223	7.3	7.2	0.003	0.05	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/71-12/05/94	4	0.063	0.06	0.063	0.05	0.	0.006	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/28/79-06/26/91	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-06/26/91	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-06/26/91	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/71-06/26/91	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	3	37.	40.	67.	16.	657.	25.632	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	4	175.	194.75	380.	49.	21596.917	146.959	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	4	5.5	5.25	8.	2.	6.25	2.5	**	**	**	**
81647	REFERENCE POINT READING(LINEAR FEET)	10/23/78-10/21/92	3	40.68	40.337	40.84	39.49	0.544	0.738	**	**	**	**

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Annual Analysis for 1991 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	5	15.	14.2	20.	6.	33.7	5.805	**	**	**	**
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	5	4.	5.3	15.	1.5	30.7	5.541	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	05/16/68-12/05/94	1	46.	46.	46.	46.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	5	207.	242.	385.	55.	20194.	142.106	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	04/06/72-12/05/94	5	8.2	8.9	11.3	7.4	2.975	1.725	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	09/09/71-12/05/94	5	7.2	7.04	7.5	6.3	0.218	0.467	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/09/71-12/05/94	5	7.2	6.811	7.5	6.3	0.283	0.532	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/71-12/05/94	5	0.063	0.154	0.501	0.032	0.039	0.197	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/28/79-06/26/91	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-06/26/91	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-06/26/91	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/71-06/26/91	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	5	27.	31.6	50.	9.	311.8	17.658	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	1	150.	150.	150.	150.	0.	0.	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	5	3.	4.2	9.	2.	8.7	2.95	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-12/05/94	5	0.05	0.052	0.09	0.01	0.001	0.03	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/25/73-12/05/94	5	0.3	0.3	0.4	0.2	0.005	0.071	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/25/73-12/05/94	5	0.53	0.504	0.68	0.19	0.041	0.203	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/25/73-12/05/94	5	0.1	0.088	0.14	0.03	0.002	0.043	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	5	40.	45.	90.	5.	1025.	32.016	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	5	1.602	1.502	1.954	0.699	0.234	0.484	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			31.777								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/20/77-09/19/91	2	0.025	0.025	0.03	0.02	0.	0.007	**	**	**	**

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Annual Analysis for 1992 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	12	14.	13.333	22.	6.	32.97	5.742	6.	8.	18.	21.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/75-10/21/92	4	887.5	908.	1800.	57.	703106.	838.514	**	**	**	**
00065	STAGE, STREAM (FEET)	06/14/73-10/21/92	4	2.52	2.275	3.58	0.48	2.057	1.434	**	**	**	**
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	12	4.65	4.675	13.	0.5	10.122	3.182	0.8	2.325	5.75	11.02
00080	COLOR (PLATINUM-COBALT UNITS)	05/16/68-12/05/94	10	43.	39.2	58.	21.	148.622	12.191	21.1	28.75	48.25	57.1
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	12	194.5	200.333	360.	101.	5254.788	72.49	101.3	152.	249.25	328.8
00300p	OXYGEN, DISSOLVED MG/L	04/06/72-12/05/94	11	9.4	8.982	11.4	7.	1.418	1.191	7.18	7.9	9.6	11.06
00400p	PH (STANDARD UNITS)	09/09/71-12/05/94	12	7.05	7.083	7.6	6.7	0.107	0.327	6.7	6.8	7.375	7.6
00400p	CONVERTED PH (STANDARD UNITS)	09/09/71-12/05/94	12	7.047	6.985	7.6	6.7	0.117	0.343	6.7	6.8	7.375	7.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/71-12/05/94	12	0.09	0.103	0.2	0.025	0.004	0.064	0.025	0.042	0.158	0.2
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	12	27.	27.417	43.	15.	55.538	7.452	15.6	23.75	30.75	40.6
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	1	150.	150.	150.	150.	0.	0.	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	12	3.	3.75	9.	0.5	9.977	3.159	0.5	1.	7.5	8.7
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-12/05/94	12	0.075	0.084	0.16	0.02	0.002	0.043	0.026	0.053	0.118	0.157
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/25/73-12/05/94	12	0.35	0.333	0.7	0.1	0.024	0.156	0.13	0.2	0.4	0.61
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/25/73-12/05/94	12	0.475	0.474	0.8	0.21	0.019	0.139	0.246	0.433	0.518	0.728
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/25/73-12/05/94	12	0.075	0.078	0.13	0.03	0.001	0.028	0.036	0.055	0.098	0.124
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	12	36.	120.042	600.	0.5	30723.112	175.28	5.15	21.25	132.5	516.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	12	1.55	1.637	2.778	-0.301	0.62	0.788	0.151	1.325	2.12	2.696
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			43.368								
81647	REFERENCE POINT READING(LINEAR FEET)	10/23/78-10/21/92	4	41.48	41.725	43.52	40.42	2.057	1.434	**	**	**	**

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Annual Analysis for 1993 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	11	12.	13.909	23.	3.	46.491	6.818	3.4	8.	20.	22.8
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	11	2.	3.673	6.8	0.5	6.688	2.586	0.66	1.5	6.6	6.78
00080	COLOR (PLATINUM-COBALT UNITS)	05/16/68-12/05/94	11	28.	31.	53.	12.	229.4	15.146	12.6	16.	44.	52.6
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	11	170.	196.545	357.	57.	14686.873	121.189	59.6	76.	330.	355.
00300p	OXYGEN, DISSOLVED MG/L	04/06/72-12/05/94	11	8.7	8.8	11.1	6.9	2.414	1.554	6.94	7.4	10.4	11.06
00400p	PH (STANDARD UNITS)	09/09/71-12/05/94	11	7.3	7.2	7.5	6.6	0.078	0.279	6.66	7.	7.4	7.5
00400p	CONVERTED PH (STANDARD UNITS)	09/09/71-12/05/94	11	7.3	7.106	7.5	6.6	0.088	0.296	6.66	7.	7.4	7.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/71-12/05/94	11	0.05	0.078	0.251	0.032	0.004	0.065	0.032	0.04	0.1	0.226
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	10	29.	33.6	63.	12.	358.933	18.946	12.	16.5	55.75	62.5
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	11	4.	5.818	24.	1.	41.164	6.416	1.2	2.	7.	20.8
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-12/05/94	11	0.06	0.064	0.11	0.01	0.001	0.032	0.014	0.04	0.09	0.108
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/25/73-12/05/94	11	0.3	0.309	0.6	0.1	0.029	0.17	0.1	0.2	0.5	0.58
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/25/73-12/05/94	11	0.51	0.47	0.71	0.05	0.03	0.174	0.11	0.39	0.58	0.69
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/25/73-12/05/94	11	0.08	0.089	0.13	0.05	0.001	0.025	0.052	0.07	0.11	0.128
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	11	9.	16.	60.	0.5	348.95	18.68	0.5	1.	26.	55.8
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	11	0.954	0.826	1.778	-0.301	0.523	0.723	-0.301	0.	1.415	1.741
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			6.693								

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Annual Analysis for 1994 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	11	14.	14.273	22.	5.	27.018	5.198	5.8	9.	19.	21.6
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	11	4.9	6.527	16.	0.5	28.912	5.377	0.84	2.3	9.6	16.
00080	COLOR (PLATINUM-COBALT UNITS)	05/16/68-12/05/94	11	21.	19.545	29.	3.	58.073	7.621	5.2	15.	26.	28.6
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	11	116.	116.818	188.	36.	2722.764	52.18	39.4	69.	163.	185.2
00300p	OXYGEN, DISSOLVED MG/L	04/06/72-12/05/94	11	9.1	8.827	10.2	7.2	0.844	0.919	7.24	8.4	9.5	10.1

** - 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

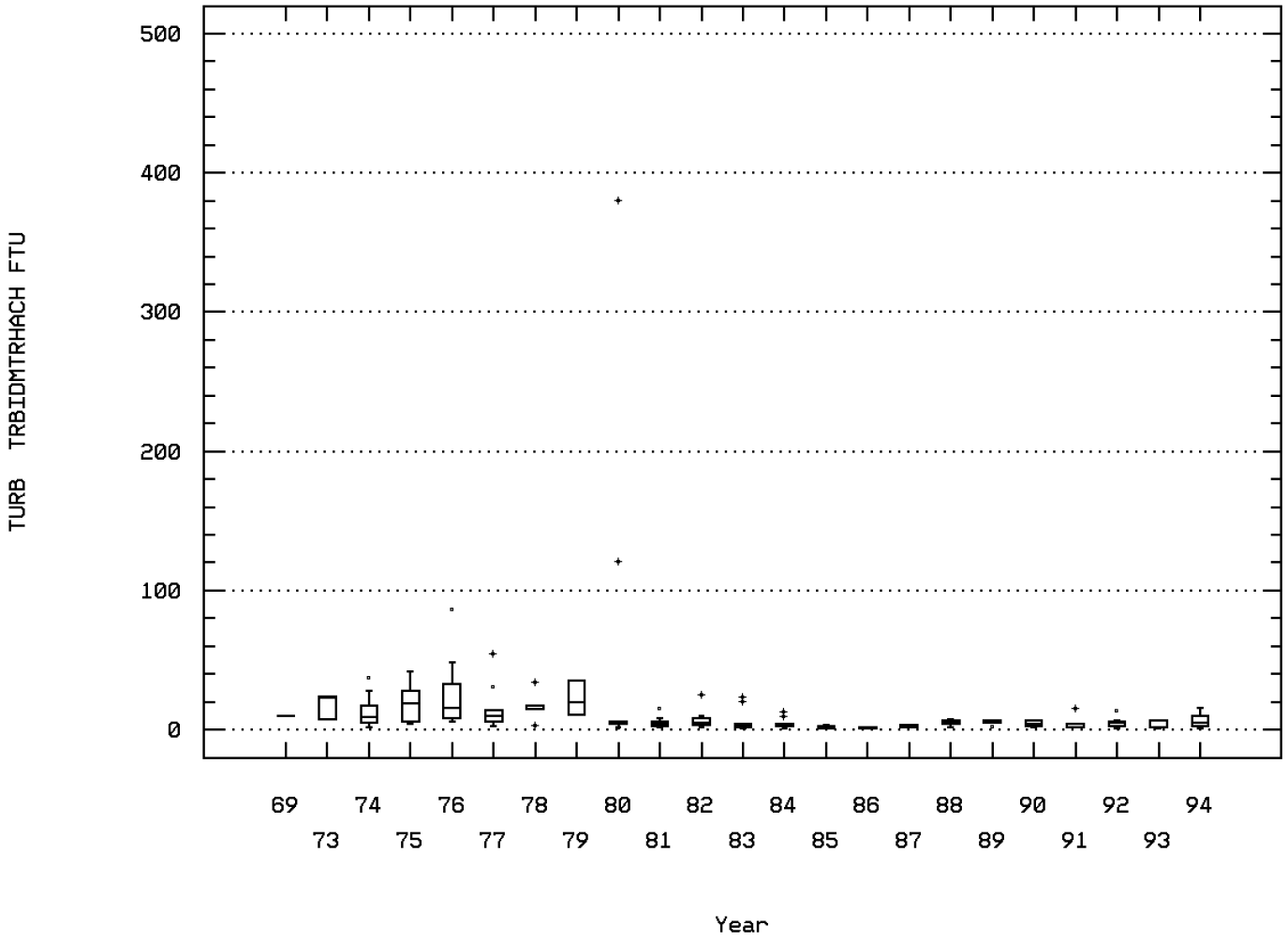
Annual Analysis for 1994 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	PH (STANDARD UNITS)	09/09/71-12/05/94	11	6.8	6.882	7.7	6.4	0.13	0.36	6.42	6.7	7.1	7.6
00400p	CONVERTED PH (STANDARD UNITS)	09/09/71-12/05/94	11	6.8	6.774	7.7	6.4	0.142	0.377	6.42	6.7	7.1	7.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/71-12/05/94	11	0.158	0.168	0.398	0.02	0.012	0.111	0.029	0.079	0.2	0.382
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	11	5.	7.136	16.	0.5	26.205	5.119	1.	4.	10.	16.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-12/05/94	11	0.07	0.075	0.2	0.03	0.002	0.048	0.03	0.03	0.1	0.18
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/25/73-12/05/94	11	0.3	0.327	0.6	0.2	0.014	0.119	0.2	0.2	0.4	0.56
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/25/73-12/05/94	11	0.38	0.362	0.46	0.12	0.01	0.1	0.152	0.3	0.45	0.458
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/25/73-12/05/94	11	0.05	0.055	0.09	0.02	0.001	0.023	0.022	0.03	0.07	0.09
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	11	12.	105.409	500.	0.5	31162.541	176.529	0.8	2.	140.	480.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	11	1.079	1.255	2.699	-0.301	0.964	0.982	-0.181	0.301	2.146	2.68
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			17.978								

** - Less 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: GRSM0256 Parameter Code: 00076

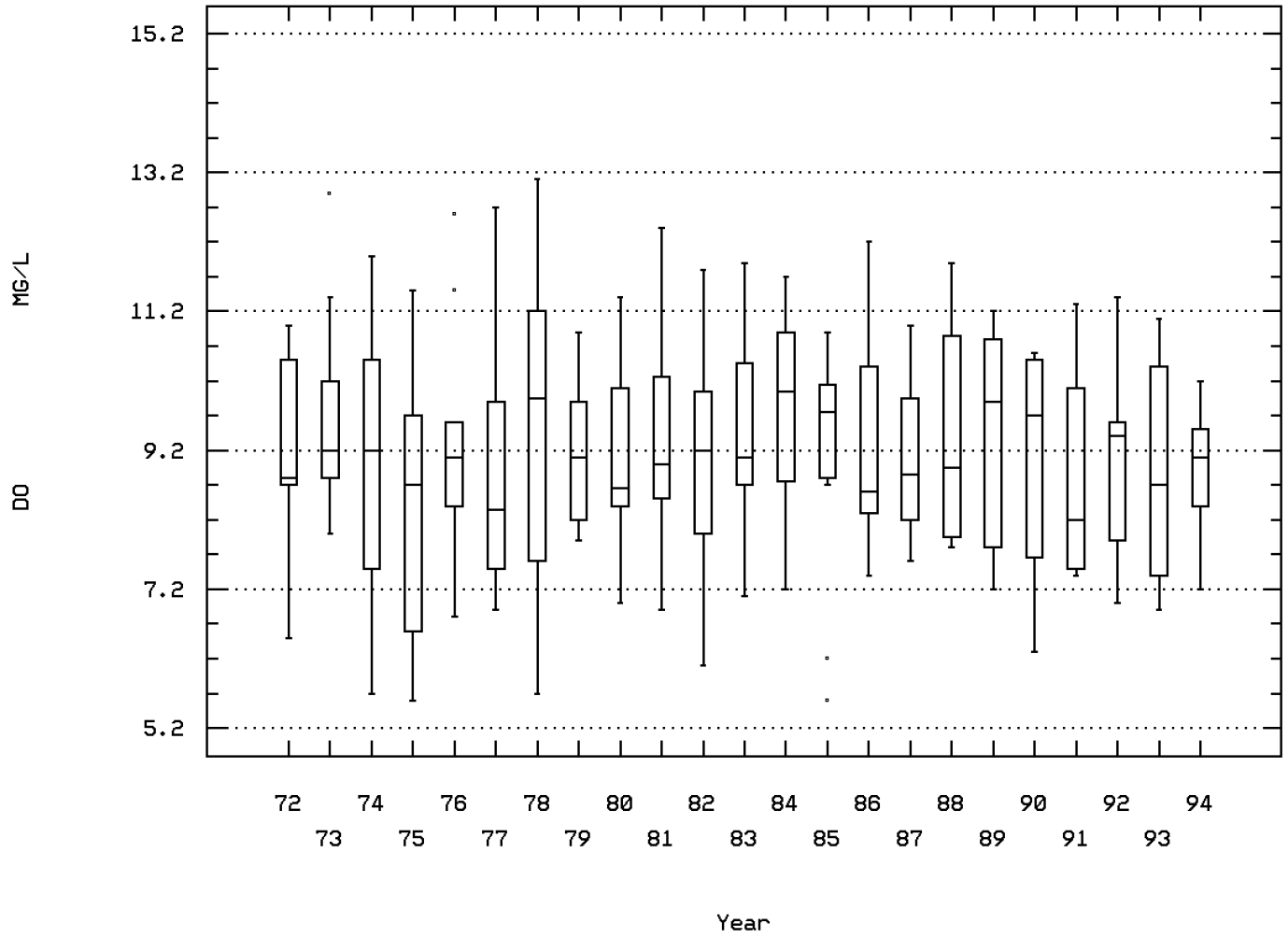
TURBIDITY,HACH TURBIDIMETER (FORMAZIN T



PIGEON RIVER AT WATERVILLE NC

Station: GRSM0256 Parameter Code: 00300

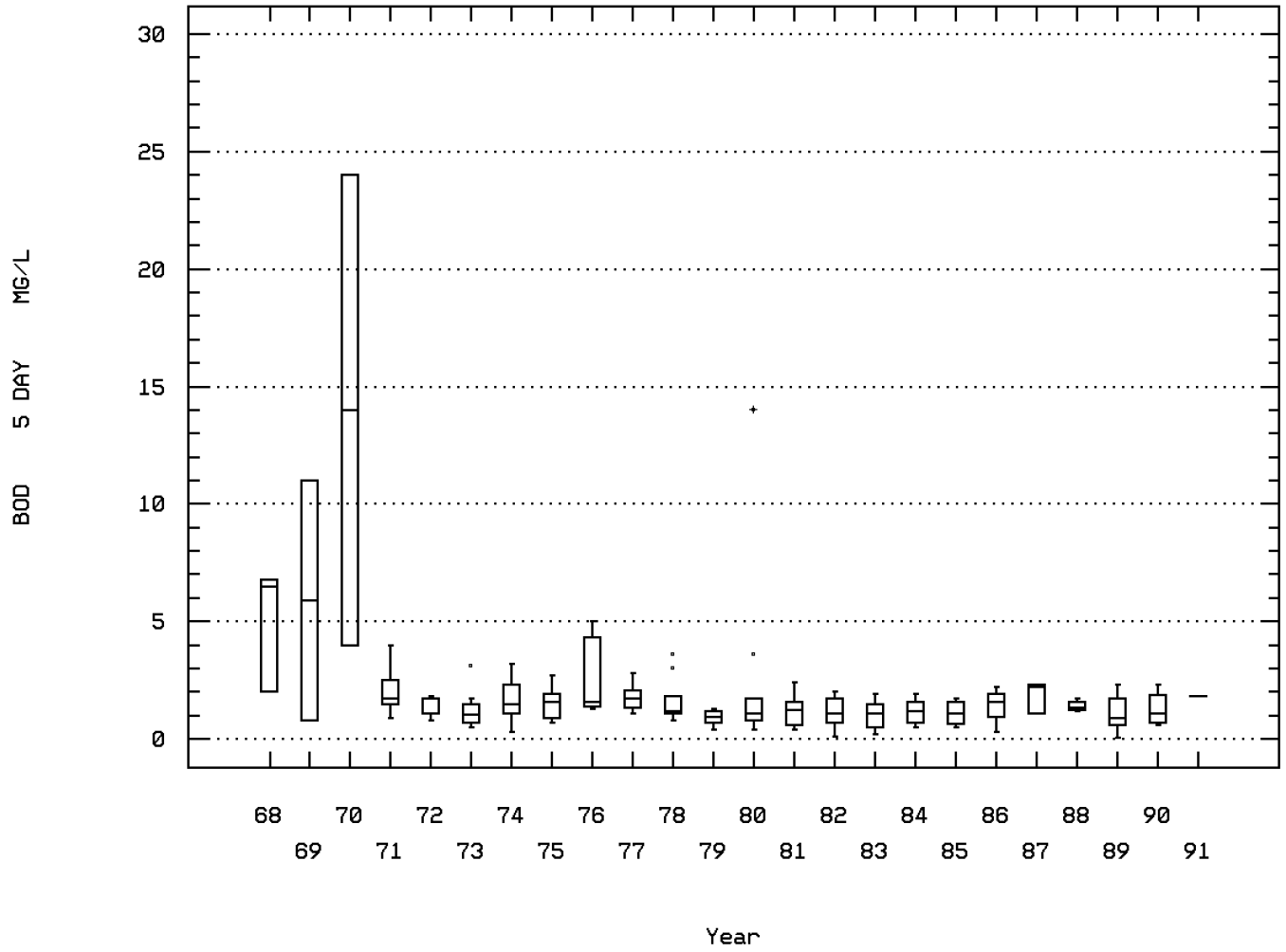
OXYGEN, DISSOLVED



PIGEON RIVER AT WATERVILLE NC

Station: GRSM0256 Parameter Code: 00310

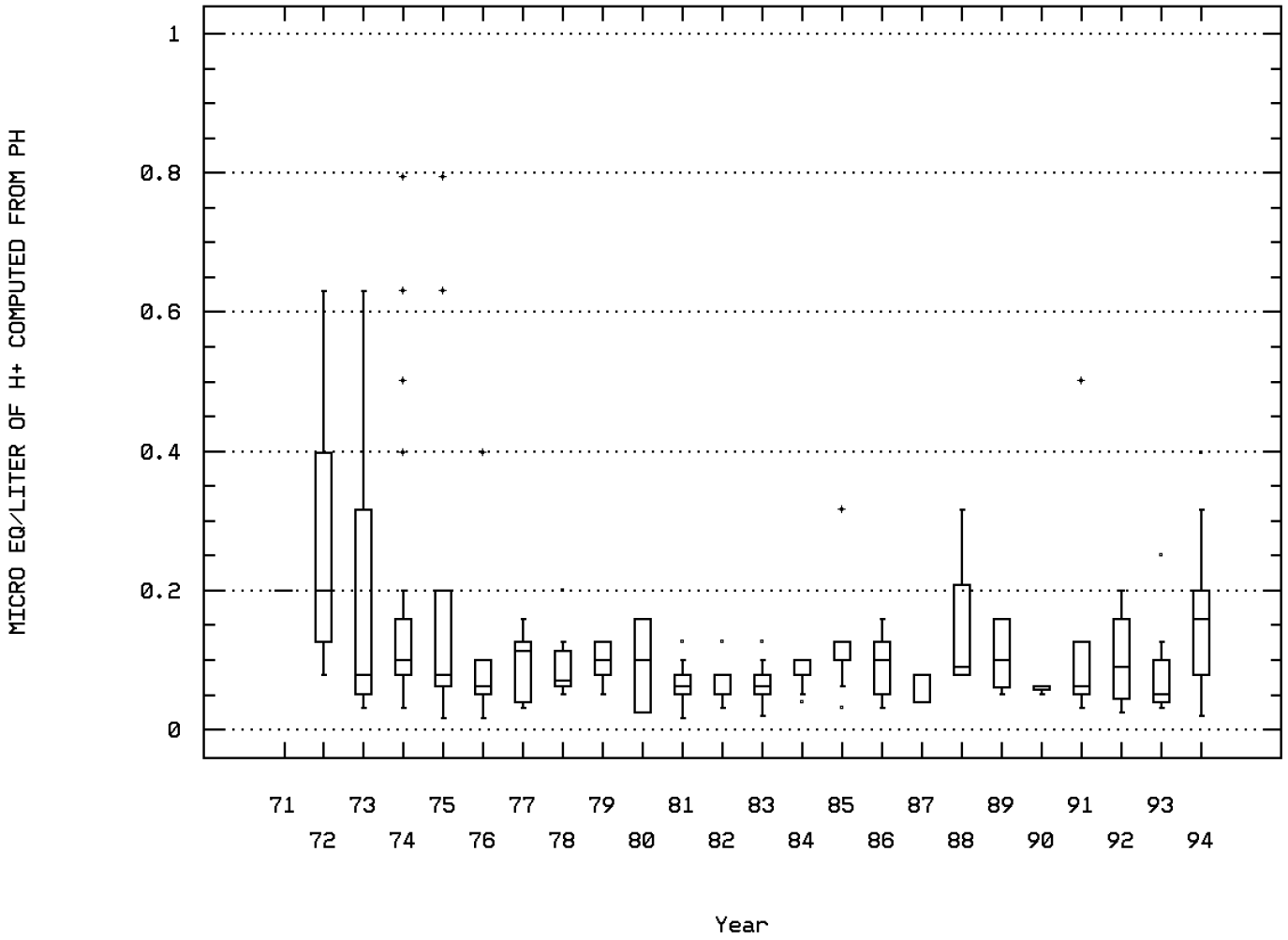
BOD, 5 DAY, 20 DEG C



PIGEON RIVER AT WATERVILLE NC

Station: GRSM0256 Parameter Code: 00400

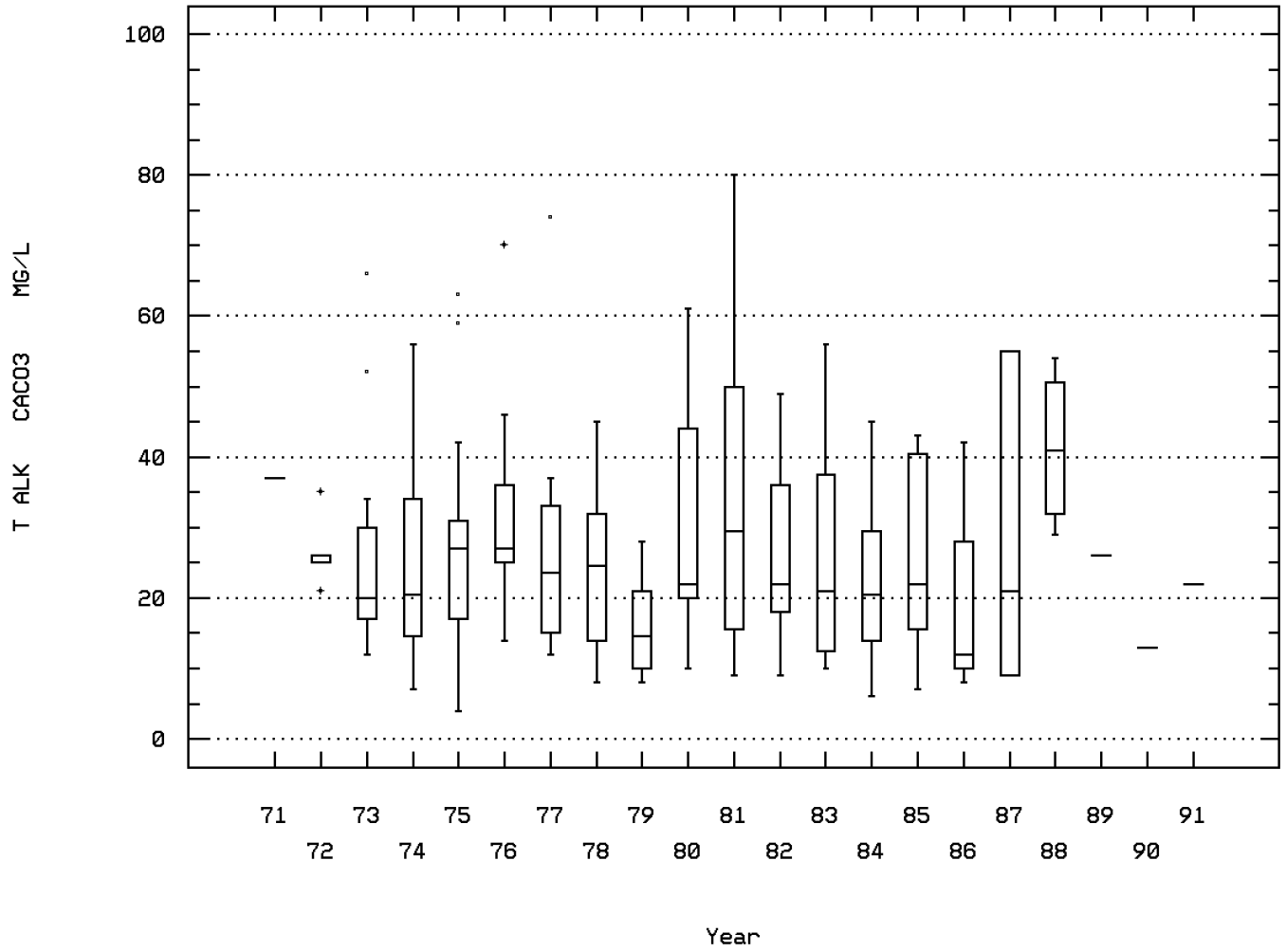
MICRO EQ/LITER OF H+ COMPUTED FROM PH



PIGEON RIVER AT WATERVILLE NC

Station: GRSM0256 Parameter Code: 00410

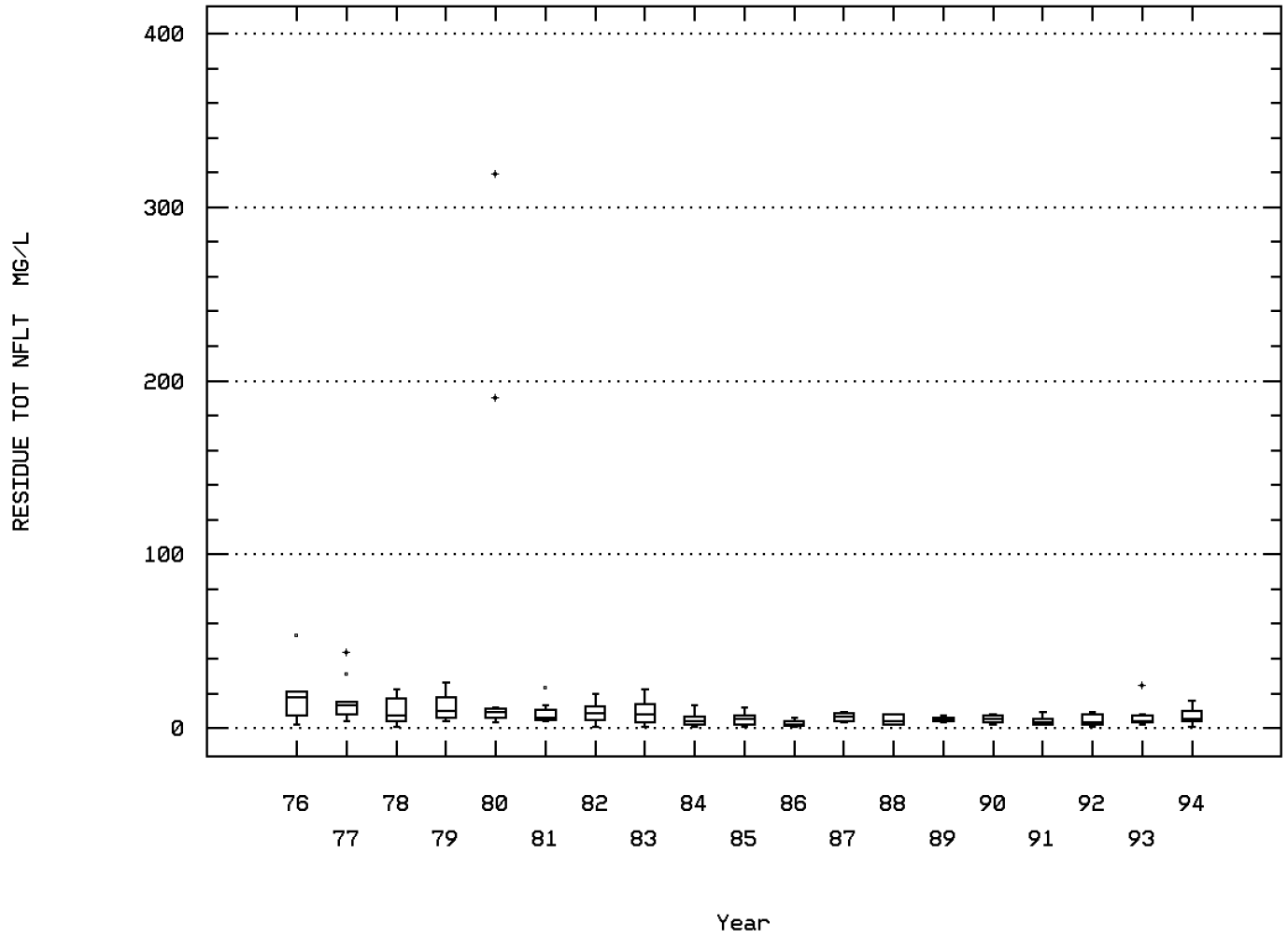
ALKALINITY, TOTAL (MG/L AS CACO3)



PIGEON RIVER AT WATERVILLE NC

Station: GRSM0256 Parameter Code: 00530

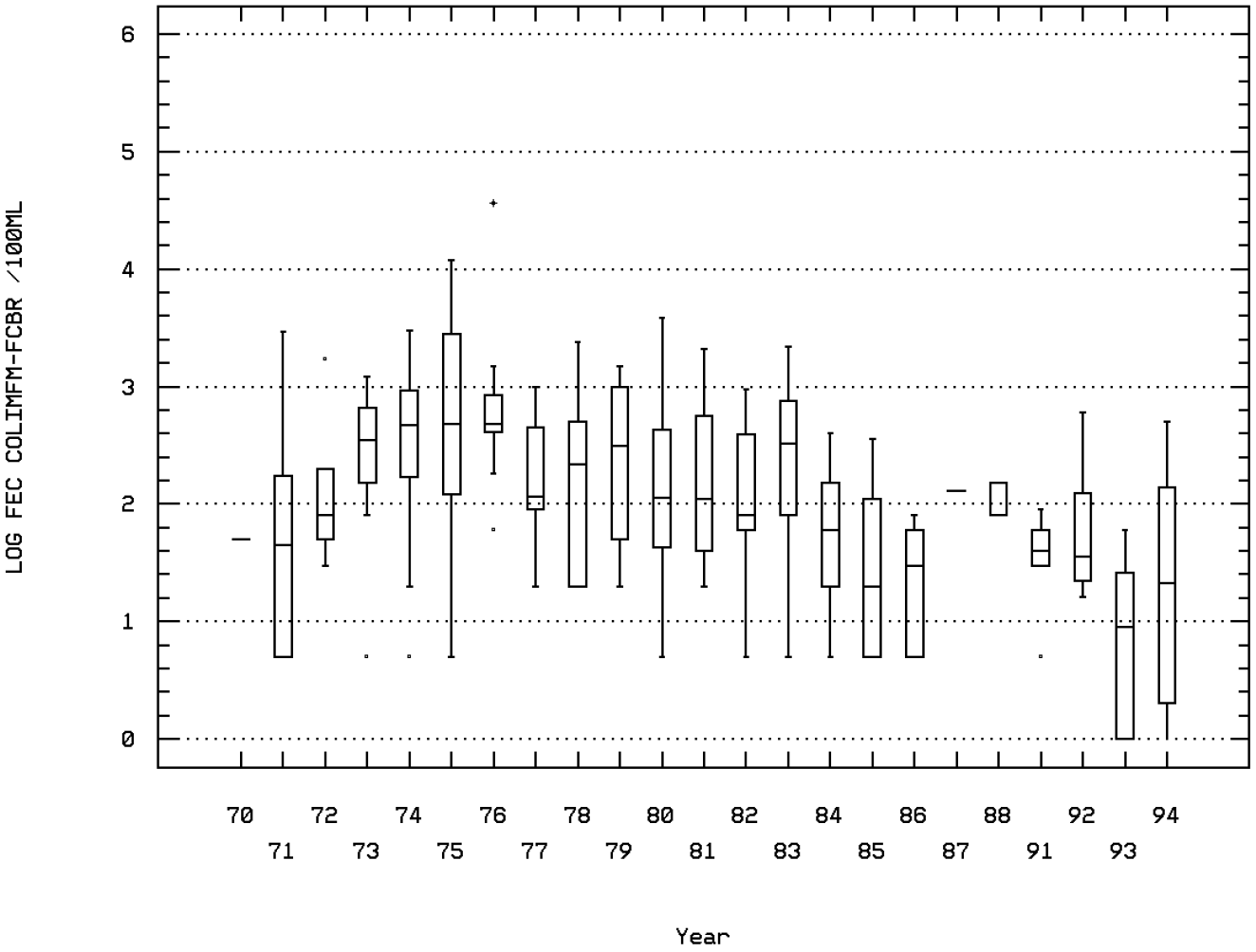
RESIDUE, TOTAL NONFILTRABLE (MG/L)



PIGEON RIVER AT WATERVILLE NC

Station: GRSM0256 Parameter Code: 31616

LOG FECAL COLIFORM,MEMBR FILTER,M-FC BR



PIGEON RIVER AT WATERVILLE NC

Seasonal Analysis for Season #1: 10/01 to 3/31 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	02/24/83-12/05/94	28	150.	125.536	150.	30.	1980.258	44.5	40.	112.5	150.	150.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	120	9.	9.142	20.	2.	14.32	3.784	4.1	6.	11.75	15.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/75-10/21/92	51	1830.	1815.176	6500.	30.	1618678.908	1272.273	102.2	900.	2400.	3568.
00064	DEPTH OF STREAM, MEAN (FT)	02/24/83-12/05/94	28	3.	2.946	3.	2.	0.043	0.208	2.95	3.	3.	3.
00065	STAGE, STREAM (FEET)	06/14/73-10/21/92	70	3.31	10.596	43.97	0.15	246.783	15.709	0.831	2.698	4.35	41.451
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	88	5.2	10.644	120.	0.5	294.694	17.167	1.5	3.	9.9	23.1
00080p	COLOR (PLATINUM-COBALT UNITS)	05/16/68-12/05/94	43	48.	64.093	240.	10.	2444.086	49.438	15.4	27.	84.	140.
00082	COLOR,SPECTROPHOTO,WATER SMPL AT7.6PH ADMI UNITS	11/12/86-12/05/94	22	53.5	69.136	310.	9.	4855.647	69.682	16.	21.75	96.25	172.
00083	COLOR,SPECTROPHTOMETRIC,FIL,WATER SPL ADMI UNITS	11/12/86-12/05/94	24	46.	65.375	300.	9.	4305.81	65.619	15.	24.25	89.75	160.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	55	182.	263.982	978.	45.	40038.907	200.097	75.4	125.	357.	554.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/04/74-12/14/89	34	150.5	221.324	670.	17.	38538.165	196.311	38.	46.5	312.75	595.
00300	OXYGEN, DISSOLVED MG/L	04/06/72-12/05/94	119	10.2	10.061	13.1	6.2	1.894	1.376	8.5	9.2	11.	11.7
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/71-09/19/85	49	88.	85.306	108.	48.	139.509	11.811	68.	77.	93.	99.
00310	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	101	1.3	1.547	6.8	0.1	0.991	0.996	0.8	1.	1.7	2.46
00335	COD, .025N K2CR2O7 MG/L	10/18/73-12/11/84	27	24.	28.852	86.	5.	335.42	18.314	11.8	12.5	40.	56.2
00340	COD, .25N K2CR2O7 MG/L	10/18/68-08/04/81	52	20.5	25.173	76.	5.	250.567	15.829	11.	12.5	34.25	43.7
00400	PH (STANDARD UNITS)	09/09/71-12/05/94	109	7.1	7.048	7.8	6.	0.143	0.379	6.4	6.9	7.3	7.5
00400	CONVERTED PH (STANDARD UNITS)	09/09/71-12/05/94	109	7.1	6.849	7.8	6.	0.183	0.428	6.4	6.9	7.3	7.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/71-12/05/94	109	0.079	0.142	1.	0.016	0.033	0.181	0.032	0.05	0.126	0.398
00403	PH, LAB, STANDARD UNITS SU	11/28/79-06/26/91	47	7.1	7.155	7.7	6.8	0.034	0.184	6.9	7.	7.3	7.4
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-06/26/91	47	7.1	7.119	7.7	6.8	0.035	0.188	6.9	7.	7.3	7.4
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-06/26/91	47	0.079	0.076	0.158	0.02	0.001	0.031	0.04	0.05	0.1	0.126
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/71-06/26/91	98	25.	28.929	80.	4.	237.407	15.408	13.	17.	37.25	50.1
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/09/71-08/31/87	44	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	51	25.	29.588	76.	9.	264.287	16.257	12.2	16.	41.	50.8
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	68	175.	230.485	778.	49.	23726.522	154.034	87.7	120.	311.5	446.4
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	86	5.5	10.047	190.	0.5	437.727	20.922	1.	3.75	10.25	21.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-12/05/94	69	0.11	0.276	11.	0.01	1.722	1.312	0.03	0.07	0.155	0.2
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/25/73-12/05/94	72	0.35	0.39	1.3	0.05	0.055	0.234	0.2	0.2	0.5	0.6
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/25/73-12/05/94	72	0.475	0.509	2.1	0.05	0.063	0.25	0.293	0.41	0.558	0.701
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/25/73-12/05/94	71	0.11	0.131	0.54	0.025	0.009	0.097	0.05	0.07	0.14	0.258
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/24/83-12/05/94	36	36.5	46.611	140.	13.	948.416	30.796	14.7	21.5	64.5	89.8
01002	ARSENIC, TOTAL (UG/L AS AS)	09/09/71-12/05/94	52 ##	5.	6.923	30.	5.	34.465	5.871	5.	5.	5.	17.
01027	CADMIUM, TOTAL (UG/L AS CD)	02/04/74-12/05/94	52 ##	1.	8.981	25.	1.	105.549	10.274	1.	1.	25.	25.
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/25/73-12/05/94	53 ##	12.5	17.029	25.	0.025	47.113	6.864	12.5	12.5	25.	25.
01037	COBALT, TOTAL (UG/L AS CO)	02/04/74-09/17/81	12 ##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01042	COPPER, TOTAL (UG/L AS CU)	02/04/74-12/05/94	52 ##	5.	9.769	60.	1.	122.181	11.054	1.	1.25	20.	20.
01045	IRON, TOTAL (UG/L AS FE)	10/25/73-12/05/94	32	315.	636.	6800.	25.	1346391.677	1160.341	106.4	250.	740.	870.
01051	LEAD, TOTAL (UG/L AS PB)	02/04/74-12/05/94	52 ##	15.	32.827	400.	5.	3242.028	56.939	5.	5.	50.	50.
01055	MANGANESE, TOTAL (UG/L AS MN)	02/04/74-10/25/93	18	75.	96.833	310.	5.	6392.029	79.95	5.	41.75	170.	211.
01067	NICKEL, TOTAL (UG/L AS NI)	05/26/76-12/05/94	41 ##	5.	19.39	50.	5.	363.994	19.079	5.	5.	37.5	50.
01092	ZINC, TOTAL (UG/L AS ZN)	02/04/74-12/05/94	52 ##	5.	17.865	250.	4.	1337.57	36.573	5.	5.	25.	25.
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/29/83-12/05/94	23	150.	188.783	540.	25.	21267.905	145.835	25.	84.	260.	476.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	116	185.	604.401	12000.	0.5	2135791.697	1461.435	10.	40.5	555.	1220.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	116	2.267	2.154	4.079	-0.301	0.747	0.865	1.	1.607	2.744	3.082
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			142.617								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/20/77-09/19/91	39	0.07	0.097	0.27	0.025	0.005	0.073	0.025	0.05	0.14	0.25
71900	MERCURY, TOTAL (UG/L AS HG)	07/09/70-12/05/94	55 ##	0.1	0.17	1.1	0.1	0.023	0.153	0.1	0.1	0.25	0.25
81647	REFERENCE POINT READING(LINEAR FEET)	10/23/78-10/21/92	46	40.77	41.16	44.17	38.33	1.797	1.34	39.776	40.302	41.8	43.565

** - Less 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: 4/01 to 9/30 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	02/24/83-12/05/94	28	150.	112.857	150.	10.	3074.868	55.451	24.5	42.5	150.	150.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/09/71-12/05/94	130	19.	18.642	25.	8.	14.144	3.761	14.	16.	22.	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

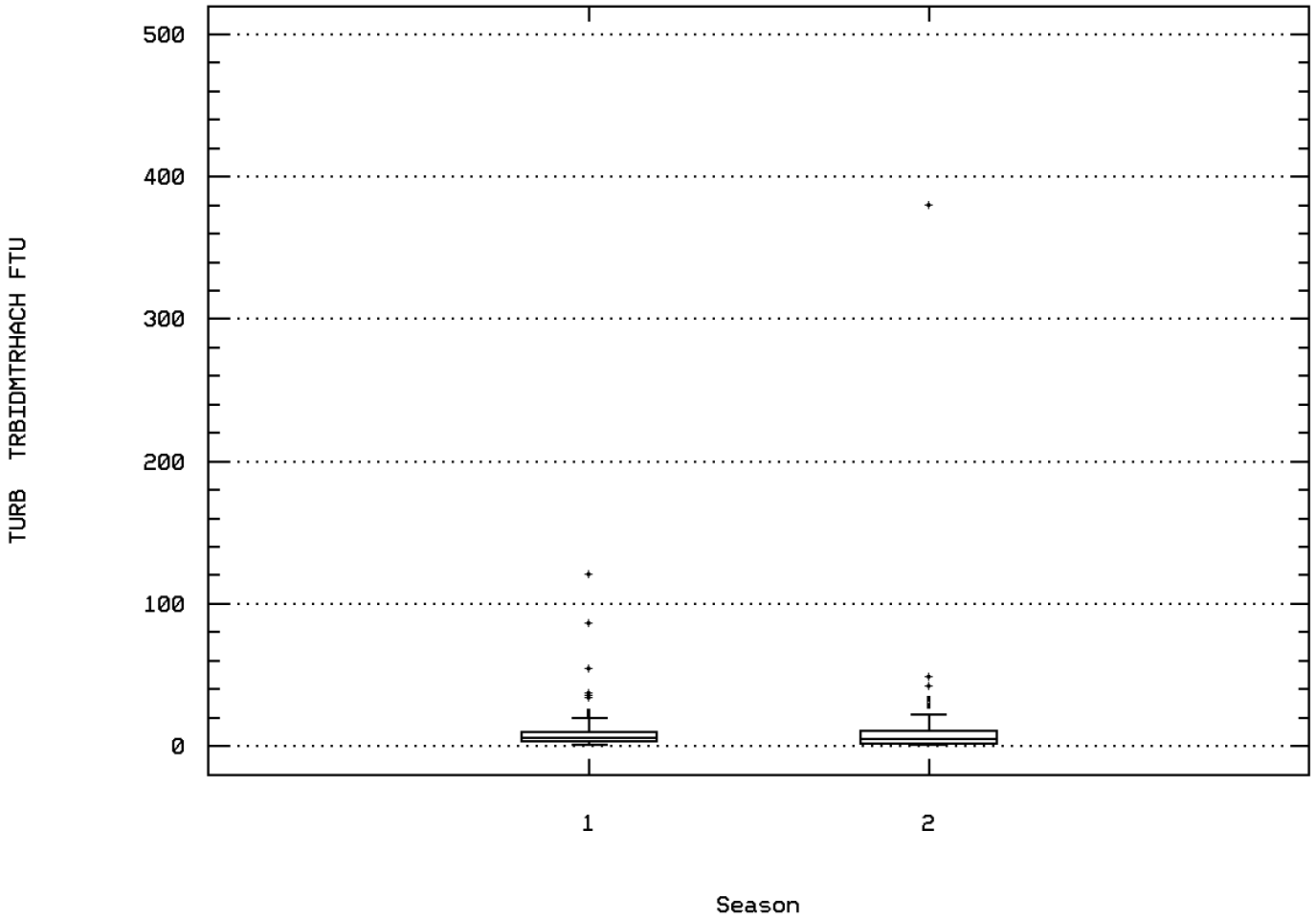
Seasonal Analysis for Season #2: 4/01 to 9/30 - Station GRSM0256

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/75-10/21/92	51	1430.	1409.955	8000.	0.7	2227837.428	1492.594	36.6	86.	2300.	3282.
00064	DEPTH OF STREAM, MEAN (FT)	02/24/83-12/05/94	28	3.	2.714	3.	0.5	0.563	0.751	0.95	3.	3.	3.
00065	STAGE, STREAM (FEET)	06/14/73-10/21/92	66	3.35	74.469	4331.	0.02	283238.677	532.202	0.276	0.888	4.065	40.843
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	95	5.	12.243	380.	0.5	1542.32	39.272	1.24	2.	11.	24.
00080p	COLOR (PLATINUM-COBALT UNITS)	05/16/68-12/05/94	45	43.	48.378	130.	3.	1531.831	39.139	8.6	17.	63.	123.2
00082	COLOR,SPECTROPHOTO,WATER SMPL AT7.6PH ADMI UNITS	11/12/86-12/05/94	21	37.	42.952	91.	3.	697.948	26.419	5.2	20.5	64.5	83.
00083	COLOR,SPECTROPHTOMETRIC,FIL,WATER SPL ADMI UNITS	11/12/86-12/05/94	21	38.	42.762	89.	2.	686.99	26.211	5.2	20.	63.5	83.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	59	175.	242.542	900.	24.	47962.839	219.004	37.	73.	350.	628.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/04/74-12/14/89	41	150.	209.439	1000.	21.	38714.102	196.759	38.4	51.	290.5	493.
00300	OXYGEN, DISSOLVED MG/L	04/06/72-12/05/94	128	8.45	8.294	11.1	5.6	1.335	1.155	6.79	7.5	9.	9.72
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/71-09/19/85	64	90.	88.047	111.	64.	98.395	9.919	73.	80.25	95.	98.5
00310	BOD, 5 DAY, 20 DEG C MG/L	07/02/68-06/26/91	109	1.2	1.792	24.	0.05	7.682	2.772	0.5	0.8	1.8	2.7
00335	COD, .025N K2CR2O7 MG/L	10/18/73-12/11/84	23	14.	15.043	50.	2.5	160.18	12.656	2.5	5.	22.	33.6
00340	COD, .25N K2CR2O7 MG/L	10/18/68-08/04/81	48	19.5	23.156	110.	5.	361.002	19.	5.	12.5	27.75	42.2
00400	PH (STANDARD UNITS)	09/09/71-12/05/94	124	7.1	7.036	7.8	6.1	0.083	0.287	6.7	6.9	7.2	7.4
00400	CONVERTED PH (STANDARD UNITS)	09/09/71-12/05/94	124	7.1	6.93	7.8	6.1	0.094	0.307	6.7	6.9	7.2	7.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/71-12/05/94	124	0.079	0.118	0.794	0.016	0.012	0.109	0.04	0.063	0.126	0.2
00403	PH, LAB, STANDARD UNITS SU	11/28/79-06/26/91	48	7.1	7.092	7.5	6.7	0.031	0.175	6.89	7.	7.2	7.3
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/79-06/26/91	48	7.1	7.058	7.5	6.7	0.032	0.178	6.89	7.	7.2	7.3
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/79-06/26/91	48	0.079	0.087	0.2	0.032	0.001	0.035	0.05	0.063	0.1	0.129
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/71-06/26/91	104	21.	23.625	70.	6.	183.441	13.544	9.	12.25	30.75	42.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/09/71-08/31/87	47	0.	0.936	44.	0.	41.191	6.418	0.	0.	0.	0.
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	55	24.	26.818	67.	5.	269.485	16.416	8.6	13.	40.	55.4
00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	73	168.	205.082	779.	34.	27343.715	165.359	47.8	66.	289.	430.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	91	6.	10.797	319.	0.5	1120.278	33.471	1.	3.	10.	14.8
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-12/05/94	75	0.06	0.08	0.79	0.01	0.009	0.093	0.025	0.04	0.1	0.134
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/25/73-12/05/94	77	0.3	0.319	1.2	0.05	0.031	0.176	0.1	0.2	0.4	0.5
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/25/73-12/05/94	76	0.4	0.453	1.2	0.11	0.046	0.214	0.24	0.333	0.528	0.8
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/25/73-12/05/94	76	0.08	0.096	0.3	0.02	0.004	0.065	0.025	0.043	0.12	0.183
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/24/83-12/05/94	36	32.	41.361	140.	8.	1147.894	33.881	11.	18.	46.	101.6
01002	ARSENIC, TOTAL (UG/L AS AS)	09/09/71-12/05/94	56 ##	5.	7.589	80.	5.	116.356	10.787	5.	5.	5.	10.
01027	CADMIUM, TOTAL (UG/L AS CD)	02/04/74-12/05/94	51 ##	1.	9.431	25.	1.	111.29	10.549	1.	1.	25.	25.
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/25/73-12/05/94	51 ##	12.5	17.647	25.	12.5	38.603	6.213	12.5	12.5	25.	25.
01037	COBALT, TOTAL (UG/L AS CO)	02/04/74-09/17/81	13 ##	50.	53.846	100.	50.	192.308	13.868	50.	50.	50.	80.
01042	COPPER, TOTAL (UG/L AS CU)	02/04/74-12/05/94	51 ##	5.	86.471	3900.	1.	296830.974	544.822	1.	2.	20.	20.
01045	IRON, TOTAL (UG/L AS FE)	10/25/73-12/05/94	32	295.	366.406	1300.	25.	89113.281	298.518	93.	130.	500.	888.
01051	LEAD, TOTAL (UG/L AS PB)	02/04/74-12/05/94	51 ##	21.	25.569	50.	5.	457.37	21.386	5.	5.	50.	50.
01055	MANGANESE, TOTAL (UG/L AS MN)	02/04/74-10/25/93	23	50.	79.043	250.	15.	4568.771	67.593	19.8	25.	120.	190.
01067	NICKEL, TOTAL (UG/L AS NI)	05/26/76-12/05/94	41 ##	5.	28.878	400.	5.	3887.36	62.349	5.	5.	50.	50.
01092	ZINC, TOTAL (UG/L AS ZN)	02/04/74-12/05/94	51 ##	5.	208.882	10000.	5.	1955800.626	1398.499	5.	5.	25.	25.
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/29/83-12/05/94	23	120.	268.	1100.	25.	98759.364	314.26	25.	70.	430.	908.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	125	60.	617.044	36000.	0.5	10778154.823	3283.01	5.	18.	355.	848.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	125	1.778	1.835	4.556	-0.301	0.729	0.854	0.699	1.253	2.55	2.927
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			68.383								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/20/77-09/19/91	48	0.03	0.064	0.26	0.01	0.003	0.058	0.019	0.025	0.1	0.151
71900	MERCURY, TOTAL (UG/L AS HG)	07/09/70-12/05/94	52 ##	0.1	0.2	1.7	0.1	0.073	0.27	0.1	0.1	0.25	0.25
81647	REFERENCE POINT READING(LINEAR FEET)	10/23/78-10/21/92	50	41.725	61.563	1030.	37.45	19533.337	139.762	40.024	40.468	43.543	43.879

** - Less 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: GRSM0256 Parameter Code: 00076

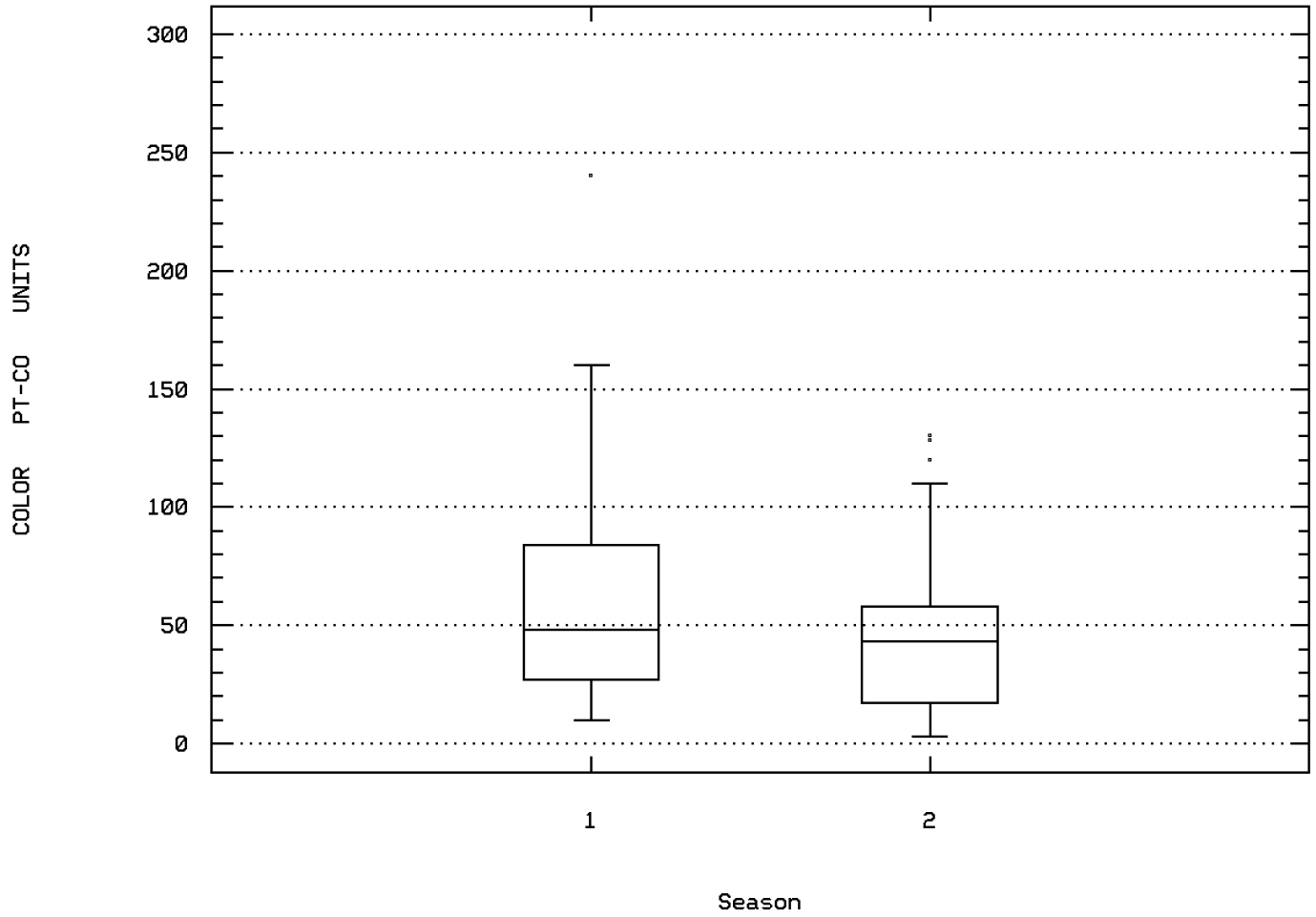
TURBIDITY,HACH TURBIDIMETER (FORMAZIN T



PIGEON RIVER AT WATERVILLE NC

Station: GRSM0256 Parameter Code: 00080

COLOR (PLATINUM-COBALT UNITS)



PIGEON RIVER AT WATERVILLE NC

Station Inventory for Station: GRSM0257

NPS Station ID: GRSM0257 | LAT/LON: 35.785281/ -83.113337 | Agency: 11EPALES | Date Created: / /
Location: WATERVILLE RESERVOIR | FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/LAKE | STORET Station ID(s): 371802
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 06010106 | Depth of Water: 35 | Aquifer:
Major Basin: | Elevation: 0 | Water Body Id:
Minor Basin: | ECO Region:
RF1 Index: 06010106009 | RF1 Mile Point: 11.470 | Distance from RF1: 0.00 | On/Off RF1: OFF
RF3 Index: 06010106000912.15 | RF3 Mile Point: 12.15 | Distance from RF3: 0.02 | On/Off RF3:
Description:
JUST OUTSIDE STREAM (COVE AREA) ON S SHORE. COMMENTS: 3-24 ULE 21, COLOR AND CONDITIONS SAME AS SITE 1, MUCH FLOATING DEBRIS (GARBAGE, BOTTLES, CANS, ETC); 1% LIGHT AT 3.5 FT, 6% LIGHT AT 1 FT. 7-5 ULE 18, WATER BROWNISH IN COLOR, MORE TURBID THAN SITE 1; DEPTH 34 FT. 9-20 ULE 22; WATER LIKE SITE 1; INTEGRATE 10 FT.

Parameter Inventory for Station: GRSM0257

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/73-09/20/73	12	21.6	19.133	26.6	9.9	41.628	6.452	10.14	11.15	24.325	26.48
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	03/24/73-09/20/73	12	70.5	64.167	84.	9.	402.515	20.063	21.3	55.5	74.25	83.4
00077	TRANSPARENCY, SECCHI DISC (INCHES)	03/24/73-09/20/73	3	30.	30.	36.	24.	36.	6.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/20/73-09/20/73	4	731.	727.75	735.	714.	93.583	9.674	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/73-07/05/73	8	282.5	286.875	450.	140.	20528.125	143.276	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/24/73-09/20/73	10	4.7	5.52	10.	1.8	11.528	3.395	1.82	2.45	10.	10.
00400	PH (STANDARD UNITS)	03/24/73-09/20/73	12	7.45	7.283	7.7	6.8	0.116	0.341	6.8	6.925	7.5	7.7
00400	CONVERTED PH (STANDARD UNITS)	03/24/73-09/20/73	12	7.447	7.161	7.7	6.8	0.132	0.364	6.8	6.925	7.5	7.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/73-09/20/73	12	0.036	0.069	0.158	0.02	0.003	0.054	0.02	0.032	0.119	0.158
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/24/73-09/20/73	12	34.	36.75	64.	12.	410.932	20.271	12.3	17.	61.	63.7
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/24/73-09/20/73	12	0.17	0.36	0.84	0.11	0.092	0.304	0.113	0.133	0.72	0.837
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/73-09/20/73	12	0.55	1.033	2.4	0.4	0.642	0.802	0.4	0.4	2.	2.31
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/24/73-09/20/73	12	0.63	0.669	0.87	0.51	0.011	0.105	0.54	0.61	0.742	0.861
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/73-09/20/73	12	0.129	0.129	0.244	0.084	0.002	0.041	0.086	0.102	0.135	0.214
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/24/73-09/20/73	12	0.05	0.055	0.082	0.04	0.	0.014	0.041	0.047	0.069	0.08
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	03/24/73-09/20/73	3	2.4	1.967	3.2	0.3	2.243	1.498	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	03/24/73-09/20/73	3	34.	34.	35.	33.	1.	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: GRSM0257

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	10	5	0.50	3	0	0.00	7	5	0.71						
00400	PH	Other-Hi Lim.	9.	12	0	0.00	4	0	0.00	8	0	0.00						
		Other-Lo Lim.	6.5	12	0	0.00	4	0	0.00	8	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	12	0	0.00	4	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: GRSM0258

NPS Station ID: GRSM0258
LAT/LON: 35.785837/ -83.113893
Agency: 131TVAC
Date Created: / /
Location: BELOW TOBES CREEK - 1.1 MILES NW OF WATERVILLE
FIPS State/County: 47029 TENNESSEE/COCKE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 475421 /5554
RMI-Indexes: 1021500 007720 00920 9300 2520
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 652.10 073.80 024.80
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin: FRENCH BROAD RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: PIGEON RIVER 24.8
ECO Region:
RF1 Index: 06010106009
RF1 Mile Point: 11.470
Distance from RF1: 0.10
On/Off RF1: OFF
RF3 Index: 06010107002501.22
RF3 Mile Point: 1.44
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0258

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/07/65-09/06/83	11	19.6	17.027	23.	3.5	40.146	6.336	4.48	14.4	22.5	22.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	01/07/65-11/03/71	9	430.	658.889	2350.	105.	610929.861	781.62	105.	147.5	1030.	2350.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/07/65-11/03/71	9	50.	47.222	125.	10.	1138.194	33.737	10.	22.5	55.	125.
00080	COLOR (PLATINUM-COBALT UNITS)	01/07/65-09/06/83	11	100.	93.091	140.	40.	1681.091	41.001	40.8	50.	140.	140.
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	11/03/71-09/06/83	3	80.	96.667	140.	70.	1433.333	37.859	**	**	**	**
00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)	01/07/65-11/03/71	9	2.	3.	8.	0.5	6.188	2.487	0.5	0.75	4.5	8.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/12/83-09/06/83	2	443.5	443.5	671.	216.	103512.5	321.734	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	01/07/65-09/06/83	11	7.2	7.291	9.	5.3	1.787	1.337	5.34	6.3	8.6	8.96
00303	BOD, 1DAY, 20 DEG C MG/L	05/12/83-09/06/83	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00304	BOD, 2 DAY, 20 DEG C MG/L	05/12/83-09/06/83	2	0.85	0.85	0.9	0.8	0.005	0.071	**	**	**	**
00305	BOD, 3 DAY, 20 DEG C MG/L	05/12/83-09/06/83	2	1.	1.	1.	1.	0.	0.	**	**	**	**
00306	BOD, 4 DAY, 20 DEG C MG/L	05/12/83-09/06/83	2	1.4	1.4	1.6	1.2	0.08	0.283	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	01/07/65-09/06/83	11	4.5	5.109	10.	1.3	9.933	3.152	1.38	2.	9.	9.96
00312	BOD, 6 DAY, 20 DEG C MG/L	05/12/83-09/06/83	2	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00315	BOD, 7 DAY, 20 DEG C MG/L	05/12/83-09/06/83	2	1.9	1.9	2.1	1.7	0.08	0.283	**	**	**	**
00316	BOD, 8 DAY, 20 DEG C MG/L	09/06/83-09/06/83	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
00317	BOD, 9 DAY, 20 DEG C MG/L	05/12/83-09/06/83	2	2.45	2.45	2.5	2.4	0.005	0.071	**	**	**	**
00322	BOD, 10 DAY, 20 DEG C MG/L	05/12/83-09/06/83	2	2.55	2.55	2.6	2.5	0.005	0.071	**	**	**	**
00326	BOD, 28 DAY, 20 DEG C MG.L	05/12/83-09/06/83	2	5.15	5.15	5.9	4.4	1.125	1.061	**	**	**	**
00328	BOD, 12 DAY, 20 DEG C MG/L	05/12/83-09/06/83	2	2.75	2.75	2.8	2.7	0.005	0.071	**	**	**	**
00331	BOD, 16 DAY, 20 DEG C MG/L	09/06/83-09/06/83	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
00332	BOD, 17 DAYS, 20 DEG C MG/L	05/12/83-05/12/83	1	3.9	3.9	3.9	3.9	0.	0.	**	**	**	**
00334	BOD, 19 DAY, 20 DEG C MG/L	05/12/83-09/06/83	2	4.1	4.1	4.3	3.9	0.08	0.283	**	**	**	**
00337	BOD, 23 DAY, 20 DEG C MG/L	09/06/83-09/06/83	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00338	BOD, 24 DAY, 20 DEG C MG/L	05/12/83-05/12/83	1	5.3	5.3	5.3	5.3	0.	0.	**	**	**	**
00346	BOD, 26 DAY, 20 DEG C MG/L	05/12/83-09/06/83	2	5.	5.	5.7	4.3	0.98	0.99	**	**	**	**
00349	BOD, 30 DAY, 20 DEG C MG/L	09/06/83-09/06/83	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
00350	BOD, 14 DAY, 20 DEG C MG/L	05/12/83-09/06/83	2	3.3	3.3	3.5	3.1	0.08	0.283	**	**	**	**
00351	BOD, 21 DAY, 20 DEG C MG/L	05/12/83-09/06/83	2	4.1	4.1	4.3	3.9	0.08	0.283	**	**	**	**
00352	BOD, 35 DAY, 20 DEG C MG/L	05/12/83-05/12/83	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00353	BOD, 42 DAY, 20 DEG C MG/L	05/12/83-05/12/83	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00354	BOD, 49 DAY, 20 DEG C MG	05/12/83-05/12/83	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00355	BOD, 56 DAY, 20 DEG C MG/L	05/12/83-05/12/83	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00356	BOD, 63 DAY, 20 DEG C MG/L	05/12/83-09/06/83	2	7.45	7.45	7.7	7.2	0.125	0.354	**	**	**	**
00357	BOD, 70 DAY, 20 DEG C MG/L	05/12/83-09/06/83	2	7.6	7.6	7.8	7.4	0.08	0.283	**	**	**	**
00358	BOD, 77 DAY, 20 DEG C MG/L	05/12/83-09/06/83	2	7.7	7.7	7.8	7.6	0.02	0.141	**	**	**	**
00361	BOD, 98 DAY, 20 DEG C MG/L	05/12/83-09/06/83	2	8.25	8.25	8.4	8.1	0.045	0.212	**	**	**	**
00362	BOD, 40 DAY, 20 DEG C MG/L	05/12/83-09/06/83	2	6.3	6.3	6.9	5.7	0.72	0.849	**	**	**	**

** - Less 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: GRSM0258

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00364	BOD, 100 DAY, 20 DEG C MG/L	05/12/83-09/06/83	2	8.25	8.25	8.4	8.1	0.045	0.212	**	**	**	**
00400	PH (STANDARD UNITS)	01/07/65-09/06/83	11	6.9	6.874	7.2	6.4	0.042	0.206	6.46	6.8	7.	7.162
00400	CONVERTED PH (STANDARD UNITS)	01/07/65-09/06/83	11	6.9	6.823	7.2	6.4	0.045	0.213	6.46	6.8	7.	7.162
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/07/65-09/06/83	11	0.126	0.15	0.398	0.063	0.008	0.09	0.07	0.1	0.158	0.358
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/07/65-10/26/65	8	25.	27.75	48.	14.	154.786	12.441	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	01/07/65-10/26/65	8	0.	0.	0.	0.	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	01/07/65-10/26/65	8	170.	227.5	410.	100.	13792.857	117.443	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	01/07/65-11/03/71	9	140.	206.667	410.	100.	13500.	116.19	100.	130.	330.	410.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/03/71-11/03/71	1	90.	90.	90.	90.	0.	0.	**	**	**	**
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	05/12/83-05/12/83	1	0.19	0.19	0.19	0.19	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/12/83-05/12/83	1	0.14	0.14	0.14	0.14	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/12/83-05/12/83	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/12/83-05/12/83	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/12/83-05/12/83	1	3.7	3.7	3.7	3.7	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	11/03/71-11/03/71	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	11/03/71-11/03/71	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	01/07/65-10/26/65	8	37.5	55.25	110.	25.	1090.786	33.027	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	11/03/71-11/03/71	1	12000.	12000.	12000.	12000.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	11/03/71-11/03/71	1	4.079	4.079	4.079	4.079	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			12000.								
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	01/07/65-10/26/65	8	62000.	497150.	2400000.	6200.681	696922857.143	825649.395	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	01/07/65-10/26/65	8	4.792	5.006	6.38	3.792	0.856	0.925	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			101311.722								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/07/65-10/26/65	8	22700.	188125.	1100000.	1100.142	571596428.571	377586.542	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/07/65-10/26/65	8	4.265	4.398	6.041	3.041	1.081	1.04	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			25031.818								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/03/71-11/03/71	1	6800.	6800.	6800.	6800.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/03/71-11/03/71	1	3.833	3.833	3.833	3.833	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			6800.								
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	11/03/71-11/03/71	1	53.	53.	53.	53.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/12/83-09/06/83	2	290.	290.	430.	150.	39200.	197.99	**	**	**	**
81253	BOD, 31 DAY, 20 DEG C MG/L	05/12/83-05/12/83	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
81255	BOD, 33 DAY, 20 DEG C MG/L	05/12/83-05/12/83	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
81257	BOD, 36 DAY, 20 DEG C MG/L	09/06/83-09/06/83	1	5.2	5.2	5.2	5.2	0.	0.	**	**	**	**
81259	BOD, 38 DAY, 20 DEG C MG/L	05/12/83-05/12/83	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
81264	BOD, 45 DAY, 20 DEG C MG/L	05/12/83-05/12/83	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
81266	BOD, 47 DAY, 20 DEG C MG/L	05/12/83-09/06/83	2	6.6	6.6	7.1	6.1	0.5	0.707	**	**	**	**
81268	BOD, 51 DAY, 20 DEG C MG/L	09/06/83-09/06/83	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
81269	BOD, 52 DAY, 20 DEG C MG/L	05/12/83-05/12/83	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
81270	BOD, 53 DAY, 20 DEG C MG/L	05/12/83-05/12/83	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
81271	BOD, 54 DAY, 20 DEG C MG/L	09/06/83-09/06/83	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
81275	BOD, 59 DAY, 20 DEG C MG/L	05/12/83-09/06/83	2	7.3	7.3	7.6	7.	0.18	0.424	**	**	**	**
81276	BOD, 60 DAY, 20 DEG C MG/L	05/12/83-05/12/83	1	7.6	7.6	7.6	7.6	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 time series plot

EPA Water Quality Criteria Analysis for Station: GRSM0258

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	9	5	0.56	4	3	0.75	5	2	0.40						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	11	0	0.00	4	0	0.00	7	0	0.00						
00400	PH	Other-Hi Lim.	9.	11	0	0.00	4	0	0.00	7	0	0.00						
		Other-Lo Lim.	6.5	11	1	0.09	4	1	0.25	7	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00				1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	8	0	0.00	3	0	0.00	5	0	0.00						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	1	1	1.00	1	1	1.00									
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	8	8	1.00	3	3	1.00	5	5	1.00						
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	8	8	1.00	3	3	1.00	5	5	1.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	1	1.00	1	1	1.00									

& - 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: GRSM0259

NPS Station ID: GRSM0259
LAT/LON: 35.793337/ -83.239170
Agency: 12NSS
Date Created: 10/22/88
Location: COSBY CREEK
FIPS State/County: 47029 TENNESSEE/COCKE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 2A07805L /2AS2A07805L
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 436
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010106
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010106000301.69
RF3 Mile Point: 4.09
Distance from RF3: 0.12
On/Off RF3:
Description:
THESE DATA WERE COLLECTED DURING PHASE I OF THE NATIONAL STREAM SURVEY AS PART OF EPA'S NATIONAL SURFACE WATER SURVEY AND AQUATIC EFFECTS RESEARCH PROGRAM UNDER THE NATIONAL ACID PRECIPITATION ASSESSMENT PROGRAM. THE SURVEY DESIGN, METHODS, AND DATA LIMITAITONS ARE DESCRIBED IN:

Parameter Inventory for Station: GRSM0259

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/85-07/07/85	4	12.5	13.	18.	9.	18.	4.243	**	**	**	**
00064	DEPTH OF STREAM, MEAN (FT)	03/24/85-07/07/85	4	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	03/24/85-07/07/85	4	12.5	12.5	15.	10.	8.333	2.887	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/85-07/07/85	4	21.	23.	29.	21.	16.	4.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/24/85-07/07/85	4	9.4	9.55	10.8	8.6	0.943	0.971	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/24/85-07/07/85	4	6.75	6.825	7.1	6.7	0.036	0.189	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/24/85-07/07/85	4	6.747	6.798	7.1	6.7	0.037	0.192	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/85-07/07/85	4	0.179	0.159	0.2	0.079	0.003	0.057	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	03/24/85-07/07/85	4	107.1	123.5	191.3	88.5	2120.087	46.044	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	03/24/85-07/07/85	4	5.5	6.	9.	4.	4.667	2.16	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/85-07/07/85	4	0.027	0.206	0.751	0.018	0.132	0.364	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/24/85-07/07/85	4	0.8	0.825	1.	0.7	0.016	0.126	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	03/24/85-07/07/85	4	1.35	1.525	2.2	1.2	0.209	0.457	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/24/85-07/07/85	4	1.8	1.95	2.6	1.6	0.203	0.451	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/24/85-07/07/85	4	0.5	0.55	0.7	0.5	0.01	0.1	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	03/24/85-07/07/85	4	1.26	1.375	1.83	1.15	0.095	0.309	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/24/85-07/07/85	4	0.41	0.415	0.43	0.41	0.	0.01	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	03/24/85-07/07/85	4	0.8	0.825	1.	0.7	0.016	0.126	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/24/85-07/07/85	4	1.9	1.925	2.1	1.8	0.023	0.15	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/85-07/07/85	4	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/24/85-07/07/85	4	6.65	6.85	8.5	5.6	1.47	1.212	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/24/85-07/07/85	4	1.15	2.325	7.	0.	10.889	3.3	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/24/85-07/07/85	4	49.5	61.75	115.	33.	1460.917	38.222	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/24/85-07/07/85	4	1.45	1.425	1.7	1.1	0.076	0.275	**	**	**	**
71885	IRON (UG/L AS FE)	03/24/85-07/07/85	4	12.99	18.86	38.97	10.49	181.128	13.458	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/24/85-07/07/85	4	1430.	1430.	1430.	1430.	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/24/85-07/07/85	4	0.7	0.825	1.5	0.4	0.249	0.499	**	**	**	**
83509	STREAM, WIDTH METER	03/24/85-07/07/85	4	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0259

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Fresh Acute	4.	4	0	0.00	1	0	0.00	3	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	4	0	0.00	1	0	0.00	3	0	0.00						
		Other-Lo Lim.	6.5	4	0	0.00	1	0	0.00	3	0	0.00						
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	4	4	1.00	1	1	1.00	3	3	1.00						
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	4	0	0.00	1	0	0.00	3	0	0.00						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	4	0	0.00	1	0	0.00	3	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	4	0	0.00	1	0	0.00	3	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	4	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: GRSM0260

NPS Station ID: GRSM0260
LAT/LON: 35.803059/ -83.247504
Agency: 112WRD
Date Created: 12/11/78
Location: GREENBRIER CREEK AT COSBY, TN
FIPS State/County: 47029 TENNESSEE/COCKE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03461266
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 06010106006
RF1 Mile Point: 6.060
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010106000907.95
RF3 Mile Point: 8.01
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0260

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/01/78-07/17/85	12	16.	15.458	22.	7.5	21.248	4.61	7.65	12.5	19.25	21.55
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/01/78-07/17/85	12	3.	3.75	11.	2.	7.295	2.701	2.	2.	4.	9.8
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/78-07/17/85	11	35.	35.091	46.	26.	41.491	6.441	26.2	29.	40.	45.6

** - 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: GRSM0261

NPS Station ID: GRSM0261
LAT/LON: 35.812505/ -83.144448
Agency: 21TNWQ
Date Created: / /
Location: PIGEON RIVER
FIPS State/County: 47029 TENNESSEE/COCKE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 002080 /152080 /132080
RMI-Indexes: 1021500 007720 00920 9300 2520
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 652.10 073.80 021.50
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin: TENNESSEE RIVER
Elevation: 0
Water Body Id:
Minor Basin: FRENCH BROAD RIVER
ECO Region:
RF1 Index: 06010106009
RF1 Mile Point: 8.740
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010106001100.00
RF3 Mile Point: 0.00
Distance from RF3: 0.12
On/Off RF3:
Description:
HARTFORD BRIDGE

Parameter Inventory for Station: GRSM0261

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/18/64-11/03/64	2	4.5	4.5	6.	3.	4.5	2.121	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	06/02/64-08/22/67	40	94.5	117.625	273.	30.	4073.42	63.823	61.	69.25	158.5	214.9
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	06/02/64-08/22/67	40	128.5	147.025	281.	23.	4551.41	67.464	71.5	98.25	205.25	250.3
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/02/64-08/22/67	40	40.	41.75	66.	23.	100.038	10.002	31.2	35.	49.	56.8
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/02/64-08/22/67	40	0.	0.7	12.	0.	6.472	2.544	0.	0.	0.	0.
00940	CHLORIDE,TOTAL IN WATER MG/L	06/02/64-08/22/67	40	44.5	49.125	103.	10.	678.625	26.05	19.1	27.25	66.25	92.9

** - 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: GRSM0261

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	2	0	0.00	1	0	0.00	1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	40	0	0.00	14	0	0.00	26	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: GRSM0262

NPS Station ID: GRSM0262
LAT/LON: 35.812505/ -83.145003
Agency: 131TVAC
Date Created: 03/30/77
Location: BRIDGE NEAR HARTFORD
FIPS State/County: 47029 TENNESSEE/COCKE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 476125
RMI-Indexes: 1021500 007720 00920 9300 2520
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 652.10 073.80 021.40
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin: FRENCH BROAD RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: PIGEON RIVER 21.4
ECO Region:
RF1 Index: 06010106009
RF1 Mile Point: 8.640
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010106000801.80
RF3 Mile Point: 2.49
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0262

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/77-10/11/78	12	15.65	14.883	24.3	3.5	48.634	6.974	3.92	8.475	21.8	23.94
00061	FLOW, STREAM, INSTANTANEOUS CFS	02/23/77-10/11/78	12	835.	974.5	2720.	44.	713639.364	844.772	66.8	245.	1675.	2528.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/23/77-10/11/78	12	5.1	12.233	50.	1.	208.542	14.441	1.24	2.1	21.	42.2
00080	COLOR (PLATINUM-COBALT UNITS)	02/23/77-10/11/78	12	40.5	42.167	80.	15.	437.97	20.928	15.	24.	57.5	77.
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	02/23/77-08/09/77	7	75.	76.429	110.	50.	380.952	19.518	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/23/77-10/11/78	12	210.	279.667	540.	96.	25950.424	161.091	106.2	157.5	460.	537.
00300	OXYGEN, DISSOLVED MG/L	02/23/77-10/11/78	12	9.6	9.875	12.6	7.6	2.668	1.633	7.78	8.5	11.575	12.42
00310	BOD, 5 DAY, 20 DEG C MG/L	02/23/77-10/11/78	12	1.5	1.7	4.6	0.5	1.109	1.053	0.65	1.1	2.	3.97
00335	COD, .025N K2CR2O7 MG/L	02/23/77-10/11/78	9	19.	21.333	44.	8.	146.5	12.104	8.	9.5	31.	44.
00400	PH (STANDARD UNITS)	02/23/77-10/11/78	11	7.2	7.136	7.5	6.7	0.075	0.273	6.72	6.9	7.4	7.48
00400	CONVERTED PH (STANDARD UNITS)	02/23/77-10/11/78	11	7.2	7.057	7.5	6.7	0.081	0.285	6.72	6.9	7.4	7.48
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/23/77-10/11/78	11	0.063	0.088	0.2	0.032	0.003	0.056	0.033	0.04	0.126	0.191
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/23/77-10/11/78	11	23.	25.727	54.	8.	190.218	13.792	8.8	15.	34.	51.6
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/23/77-10/11/78	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/23/77-10/11/78	8	5.5	7.625	16.	1.	33.411	5.78	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	02/23/77-10/11/78	12	0.14	0.154	0.35	0.08	0.006	0.075	0.083	0.098	0.168	0.317
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/23/77-10/11/78	12	0.075	0.111	0.56	0.005	0.023	0.152	0.005	0.03	0.118	0.449
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/23/77-10/11/78	12	0.39	0.449	0.84	0.29	0.024	0.154	0.293	0.363	0.498	0.774
00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/23/77-10/11/78	12	0.06	0.068	0.15	0.03	0.001	0.036	0.033	0.04	0.087	0.135
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/23/77-10/11/78	8	6.	7.45	15.	3.3	20.663	4.546	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	02/23/77-10/11/78	8	22.5	28.625	60.	11.	320.554	17.904	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/23/77-10/11/78	8	1.55	1.738	2.6	1.1	0.351	0.593	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	02/23/77-10/11/78	8	21.5	31.75	69.	11.	436.214	20.886	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	02/23/77-10/11/78	8	1.8	2.155	3.7	0.84	0.939	0.969	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	02/23/77-10/11/78	8	43.5	61.125	120.	23.	1369.268	37.004	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	02/23/77-10/11/78	8	10.5	14.	29.	8.	72.286	8.502	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	02/23/77-08/09/77	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	02/23/77-02/23/77	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	02/23/77-08/09/77	3 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	02/23/77-08/09/77	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	02/23/77-10/11/78	8 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	02/23/77-10/11/78	8	35.	44.125	120.	10.	1167.554	34.169	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	02/23/77-10/11/78	12	755.	867.5	2400.	200.	449584.091	670.51	209.	275.	1135.	2220.
01046	IRON, DISSOLVED (UG/L AS FE)	02/23/77-10/11/78	12	170.	198.083	490.	25.	17113.174	130.817	35.5	99.	287.5	442.
01051	LEAD, TOTAL (UG/L AS PB)	02/23/77-10/11/78	8 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	02/23/77-10/11/78	12	80.	105.25	300.	27.	6077.659	77.959	30.9	45.	142.5	267.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	02/23/77-10/11/78	12	46.5	67.667	160.	17.	2403.333	49.024	17.9	24.	115.	151.
01067	NICKEL, TOTAL (UG/L AS NI)	02/23/77-10/11/78	8 ##	25.	17.5	25.	5.	107.143	10.351	**	**	**	**

** - Less 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: GRSM0262

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01077	SILVER, TOTAL (UG/L AS AG)	02/23/77-08/09/77	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	02/23/77-10/11/78	8	60.	67.5	150.	5.	3271.429	57.196	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	02/23/77-10/11/78	8	175.	331.25	820.	80.	86212.5	293.62	**	**	**	**
01132	LITHIUM, TOTAL (UG/L AS LI)	02/23/77-08/09/77	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01152	TITANIUM, TOTAL (UG/L AS TI)	02/23/77-08/09/77	3 ##	500.	500.	500.	500.	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	02/23/77-10/11/78	10	2000.	5930.	20000.	100.	48920111.111	6994.291	190.	1750.	13350.	19380.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	02/23/77-10/11/78	10	3.301	3.427	4.301	2.	0.449	0.67	2.1	3.226	4.125	4.285
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			2673.47								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/23/77-10/11/78	10	450.	500.5	1300.	5.	255824.722	505.791	5.5	17.5	1045.	1288.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/23/77-10/11/78	10	2.651	2.171	3.114	0.699	0.885	0.941	0.729	1.226	3.018	3.11
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			148.326								
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	02/23/77-10/11/78	8	62.5	78.375	160.	32.	2201.125	46.916	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/23/77-10/11/78	8	145.	203.75	360.	90.	12712.5	112.75	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	02/23/77-10/11/78	8 ##	0.1	0.163	0.6	0.1	0.031	0.177	**	**	**	**

** - Less 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: GRSM0262

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/31---------- Obs	Exceed	Prop.	----------4/01-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	12	1	0.08	5	0	0.00	7	1	0.14						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	12	0	0.00	5	0	0.00	7	0	0.00						
00400	PH	Other-Hi Lim.	9.	11	0	0.00	5	0	0.00	6	0	0.00						
		Other-Lo Lim.	6.5	11	0	0.00	5	0	0.00	6	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	12	0	0.00	5	0	0.00	7	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	8	0	0.00	4	0	0.00	4	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	8	0	0.00	4	0	0.00	4	0	0.00						
01007	BARIUM, TOTAL	Drinking Water	2000.	3	0	0.00	1	0	0.00	2	0	0.00						
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	3	0	0.00	1	0	0.00	2	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	8	0	0.00	4	0	0.00	4	0	0.00						
		Drinking Water	5.	8	0	0.00	4	0	0.00	4	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	8	7	0.88	4	3	0.75	4	4	1.00						
		Drinking Water	1300.	8	0	0.00	4	0	0.00	4	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	8	0	0.00	4	0	0.00	4	0	0.00						
		Drinking Water	5.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	8	0	0.00	4	0	0.00	4	0	0.00						
		Drinking Water	100.	8	0	0.00	4	0	0.00	4	0	0.00						
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	50.	3	0	0.00	1	0	0.00	2	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	8	2	0.25	4	0	0.00	4	2	0.50						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	10	9	0.90	4	4	1.00	6	5	0.83						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	10	6	0.60	4	3	0.75	6	3	0.50						
71900	MERCURY, TOTAL	Fresh Acute	2.4	8	0	0.00	4	0	0.00	4	0	0.00						
		Drinking Water	2.	8	0	0.00	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: GRSM0263

NPS Station ID: GRSM0263
LAT/LON: 35.814727/ -83.145281
Agency: 131TVAC
Date Created: / /
Location:
FIPS State/County: 47029 TENNESSEE/COCKE
Station Type: /TYPA/AMBNT/STREAM/SOLIDS
STORET Station ID(s): 475976 /5551
RMI-Indexes: 1021500 007720 00920 9300 2520
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 652.10 073.80 021.30
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin: FRENCH BROAD RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: PIGEON RIVER 21.3
ECO Region:
RF1 Index: 06010106
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 06010106000300.00
RF3 Mile Point: 0.00
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0263

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	10/29/70-10/29/70	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

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

Station Inventory for Station: GRSM0264

NPS Station ID: GRSM0264
LAT/LON: 35.817226/ -83.157503
Agency: 21TNWQ
Date Created: 12/04/82
Location: PIGEON R 20.4 @ N.C. LIGHT/PWR DISCH QUAD 173SW
FIPS State/County: 47029 TENNESSEE/COCKE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 002081
RMI-Indexes: 1021500 007720 00920 9300 2520
Within Park Boundary: No
RMI-Miles: 0953.80 0046.50 652.10 073.80 120.40
HUC: 06010106
Depth of Water: 0
Aquifer:
Major Basin: SOUTHEAST
Elevation: 0
Water Body Id:
Minor Basin: CLINCH RIVER BASIN
ECO Region:
RF1 Index: 06010106009
RF1 Mile Point: 8.440
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 06010106008100.39
RF3 Mile Point: 1.49
Distance from RF3: 0.11
On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0264

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/20/82-12/14/92	65	11.	12.283	25.	0.2	39.36	6.274	4.5	7.	17.5	21.38
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/21/88-07/21/88	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	10/20/82-12/14/92	73	78.	90.181	240.	0.2	3211.176	56.667	18.	51.	139.5	175.
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	02/16/83-12/14/92	26	91.	116.808	492.	9.	9808.162	99.036	19.7	61.25	128.25	247.9
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/20/82-12/14/92	77	263.	349.169	971.	33.	51802.826	227.602	85.2	186.	502.5	686.2
00300	OXYGEN, DISSOLVED MG/L	10/20/82-12/14/92	77	8.8	8.626	11.5	5.	2.908	1.705	6.08	7.3	10.05	10.52
00310	BOD, 5 DAY, 20 DEG C MG/L	10/20/82-12/14/92	71 ##	2.5	2.282	5.	0.5	0.541	0.735	1.	2.5	2.5	2.5
00324	BOD, 20 DAY, 20 DEG C MG/L	12/16/82-02/25/92	27	4.	3.87	17.	1.	8.377	2.894	2.	2.5	4.	5.2
00335	COD, .025N K2CR2O7 MG/L	10/20/82-12/14/92	74	18.75	22.512	85.6	2.5	309.067	17.58	2.5	10.45	32.725	47.7
00400	PH (STANDARD UNITS)	06/13/89-10/23/89	2	7.95	7.95	8.5	7.4	0.605	0.778	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/13/89-10/23/89	2	7.668	7.668	8.5	7.4	0.764	0.874	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/13/89-10/23/89	2	0.021	0.021	0.04	0.003	0.001	0.026	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/20/82-12/14/92	79	7.	6.932	8.3	2.8	0.634	0.796	6.4	6.7	7.3	7.5
00403	CONVERTED PH, LAB, STANDARD UNITS	10/20/82-12/14/92	79	7.	4.519	8.3	2.8	6.53	2.555	6.4	6.7	7.3	7.5
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/20/82-12/14/92	79	0.1	30.282	1584.893	0.005	39364.228	198.404	0.032	0.05	0.2	0.398
00500	RESIDUE, TOTAL (MG/L)	10/20/82-04/12/88	53	212.	253.245	588.	34.	23469.65	153.198	58.8	125.5	374.5	471.4
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/20/82-12/14/92	75	164.	215.547	573.	4.	20371.17	142.728	52.6	111.	305.	444.6
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/20/82-12/14/92	79	4.	8.019	158.	0.5	344.791	18.569	0.5	1.	8.	16.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	10/25/84-10/25/84	1	0.96	0.96	0.96	0.96	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/16/82-12/14/92	73	0.1	0.107	0.48	0.005	0.006	0.078	0.02	0.05	0.145	0.196
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/20/82-12/14/92	76	0.535	1.236	50.	0.14	32.204	5.675	0.244	0.43	0.695	0.935
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	10/20/82-12/14/92	78	0.5	0.515	1.5	0.05	0.09	0.3	0.2	0.3	0.7	0.91
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/20/82-12/14/92	76	0.12	0.141	0.35	0.005	0.008	0.091	0.037	0.07	0.2	0.3
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/20/82-12/14/92	80	49.	70.088	882.	1.	10032.79	100.164	19.	29.	85.5	129.2
01002	ARSENIC, TOTAL (UG/L AS AS)	10/20/82-12/14/92	77 ##	1.	1.097	5.	0.5	0.698	0.835	0.5	0.75	1.	2.
01027	CADMIUM, TOTAL (UG/L AS CD)	10/20/82-12/14/92	77 ##	1.	1.073	5.	0.1	0.522	0.722	0.5	0.5	1.	2.1
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/20/82-12/14/92	22 ##	5.	11.727	180.	0.5	1419.565	37.677	0.5	0.5	5.	9.8
01042	COPPER, TOTAL (UG/L AS CU)	10/20/82-12/14/92	77	5.	7.5	37.	0.5	48.263	6.947	2.5	2.5	11.	18.
01045	IRON, TOTAL (UG/L AS FE)	10/13/83-12/14/92	59	408.	512.661	1328.	28.	87243.124	295.369	122.	339.	696.	940.
01051	LEAD, TOTAL (UG/L AS PB)	10/20/82-12/14/92	76 ##	5.	9.225	110.	0.1	250.652	15.832	5.	5.	5.	14.75
01055	MANGANESE, TOTAL (UG/L AS MN)	10/13/83-12/14/92	59	76.	120.356	876.	4.	17928.854	133.899	28.	53.	150.	230.
01067	NICKEL, TOTAL (UG/L AS NI)	02/16/83-12/14/92	12 ##	10.	24.	204.	1.5	3224.5	56.785	1.5	5.25	10.	145.8
01092	ZINC, TOTAL (UG/L AS ZN)	10/20/82-12/14/92	76	9.	40.484	800.	0.25	11837.081	108.798	2.5	2.5	27.75	81.3
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/20/82-12/14/92	70	315.	374.586	1800.	50.	86373.174	293.893	56.	213.75	452.5	702.8
01147	SELENIUM, TOTAL (UG/L AS SE)	06/24/86-07/21/88	2 ##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	03/13/84-03/13/84	1	154.	154.	154.	154.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	03/13/84-03/13/84	1	2.188	2.188	2.188	2.188	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			154.								

** - Less 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: GRSM0264

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/12/88-12/14/92	22	75.	205.955	1000.	5.	97101.284	311.611	5.	21.5	209.	912.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/12/88-12/14/92	22	1.874	1.831	3.	0.699	0.513	0.716	0.699	1.332	2.311	2.96
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			67.835								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	04/12/88-12/14/92	20	335.	1118.7	9000.	40.	4964244.326	2228.058	70.	95.5	792.5	5200.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	04/12/88-12/14/92	20	2.524	2.545	3.954	1.602	0.409	0.639	1.845	1.98	2.899	3.694
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			350.4								
71900	MERCURY, TOTAL (UG/L AS HG)	10/20/82-12/14/92	77 ##	0.1	0.136	1.6	0.1	0.033	0.181	0.1	0.1	0.1	0.2

** - 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

EPA Water Quality Criteria Analysis for Station: GRSM0264

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	77	0	0.00	46	0	0.00	31	0	0.00						
00400	PH	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00	1	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	79	0	0.00	47	0	0.00	32	0	0.00						
		Other-Lo Lim.	6.5	79	11	0.14	47	6	0.13	32	5	0.16						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	76	1	0.01	45	1	0.02	31	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	77	0	0.00	47	0	0.00	30	0	0.00						
		Drinking Water	50.	77	0	0.00	47	0	0.00	30	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	77	1	0.01	47	1	0.02	30	0	0.00						
		Drinking Water	5.	77	1	0.01	47	1	0.02	30	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	22	1	0.05	14	0	0.00	8	1	0.13						
01042	COPPER, TOTAL	Fresh Acute	18.	77	8	0.10	47	5	0.11	30	3	0.10						
		Drinking Water	1300.	77	0	0.00	47	0	0.00	30	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	76	1	0.01	46	1	0.02	30	0	0.00						
		Drinking Water	5.	16 &	11	0.69	12	9	0.75	4	2	0.50						
01067	NICKEL, TOTAL	Fresh Acute	1400.	12	0	0.00	9	0	0.00	3	0	0.00						
		Drinking Water	100.	12	1	0.08	9	1	0.11	3	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	76	5	0.07	46	4	0.09	30	1	0.03						
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00				2	0	0.00						
		Drinking Water	50.	2	0	0.00				2	0	0.00						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	22	5	0.23	11	5	0.45	11	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	77	0	0.00	46	0	0.00	31	0	0.00						
		Drinking Water	2.	77	0	0.00	46	0	0.00	31	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 1982 - Station GRSM0264

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/20/82-12/14/92	3	560.	463.667	660.	171.	66740.333	258.342	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	10/20/82-12/14/92	3	8.4	8.667	10.3	7.3	2.303	1.518	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	10/20/82-12/14/92	3	2.	2.	2.	2.	0.	0.	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	10/20/82-12/14/92	3	23.	20.667	25.	14.	34.333	5.859	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/20/82-12/14/92	3	7.	7.067	7.2	7.	0.013	0.115	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/20/82-12/14/92	3	7.	7.057	7.2	7.	0.013	0.116	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/20/82-12/14/92	3	0.1	0.088	0.1	0.063	0.	0.021	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/20/82-12/14/92	3	2.	6.	15.	1.	61.	7.81	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/16/82-12/14/92	1	0.16	0.16	0.16	0.16	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/20/82-12/14/92	3	0.66	0.82	1.43	0.37	0.3	0.548	**	**	**	**
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	10/20/82-12/14/92	3	0.8	0.733	1.	0.4	0.093	0.306	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/20/82-12/14/92	3	0.25	0.23	0.28	0.16	0.004	0.062	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/20/82-12/14/92	3	90.	78.333	116.	29.	1994.333	44.658	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	10/20/82-12/14/92	3	1.	1.	1.	1.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/20/82-12/14/92	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/20/82-12/14/92	3	7.	5.667	8.	2.	10.333	3.215	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/20/82-12/14/92	3	20.	46.667	110.	10.	3033.333	55.076	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/20/82-12/14/92	3	11.	122.	350.	5.	38997.	197.477	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/20/82-12/14/92	3 ##	0.1	0.1	0.1	0.1	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

Annual Analysis for 1983 - Station GRSM0264

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/20/82-12/14/92	11	233.	336.273	971.	58.	100045.418	316.3	60.8	89.	627.	938.
00300	OXYGEN, DISSOLVED MG/L	10/20/82-12/14/92	11	9.3	8.709	10.6	5.8	2.729	1.652	5.9	7.1	10.1	10.52
00310	BOD, 5 DAY, 20 DEG C MG/L	10/20/82-12/14/92	11	1.	1.5	4.	0.5	1.25	1.118	0.5	0.5	2.5	3.7
00335	COD, .025N K2CR2O7 MG/L	10/20/82-12/14/92	11	18.	18.	34.	2.5	97.95	9.897	2.5	14.	27.	33.
00403	PH, LAB, STANDARD UNITS SU	10/20/82-12/14/92	11	6.7	6.755	7.3	6.2	0.111	0.333	6.24	6.6	7.1	7.26
00403	CONVERTED PH, LAB, STANDARD UNITS	10/20/82-12/14/92	11	6.7	6.645	7.3	6.2	0.124	0.352	6.24	6.6	7.1	7.26
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/20/82-12/14/92	11	0.2	0.226	0.631	0.05	0.029	0.169	0.056	0.079	0.251	0.584
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/20/82-12/14/92	11	3.	9.091	41.	1.	182.091	13.494	1.	1.	8.	38.8
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/16/82-12/14/92	11	0.12	0.108	0.19	0.02	0.004	0.061	0.02	0.05	0.16	0.188
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/20/82-12/14/92	10	0.58	5.585	50.	0.25	243.681	15.61	0.254	0.373	1.25	45.14
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	10/20/82-12/14/92	10	0.55	0.465	0.8	0.05	0.071	0.267	0.055	0.175	0.7	0.79
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/20/82-12/14/92	11	0.16	0.16	0.31	0.03	0.006	0.078	0.042	0.11	0.2	0.3
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/20/82-12/14/92	11	38.	54.455	148.	14.	2025.073	45.001	14.2	23.	90.	142.6
01002	ARSENIC, TOTAL (UG/L AS AS)	10/20/82-12/14/92	11	1.	1.682	5.	0.5	1.864	1.365	0.5	0.5	2.	4.6
01027	CADMIUM, TOTAL (UG/L AS CD)	10/20/82-12/14/92	11 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01042	COPPER, TOTAL (UG/L AS CU)	10/20/82-12/14/92	11	11.	12.182	23.	3.	43.564	6.6	3.4	7.	18.	22.6
01051	LEAD, TOTAL (UG/L AS PB)	10/20/82-12/14/92	11 ##	5.	9.545	40.	5.	107.273	10.357	5.	5.	10.	34.
01092	ZINC, TOTAL (UG/L AS ZN)	10/20/82-12/14/92	11	21.	99.227	800.	0.5	54730.468	233.945	1.6	9.	70.	654.4
71900	MERCURY, TOTAL (UG/L AS HG)	10/20/82-12/14/92	11 ##	0.1	0.236	1.6	0.1	0.205	0.452	0.1	0.1	0.1	1.3

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

Annual Analysis for 1984 - Station GRSM0264

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/20/82-12/14/92	6	369.5	420.667	783.	59.	77439.467	278.279	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	10/20/82-12/14/92	7	8.3	8.2	10.4	6.1	2.893	1.701	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	10/20/82-12/14/92	7 ##	2.	1.714	3.	0.5	1.071	1.035	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	10/20/82-12/14/92	6	22.	23.5	49.	2.5	409.	20.224	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/20/82-12/14/92	7	6.5	6.357	6.8	5.7	0.18	0.424	**	**	**	**

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Annual Analysis for 1984 - Station GRSM0264

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	CONVERTED PH, LAB, STANDARD UNITS	10/20/82-12/14/92	7	6.5	6.176	6.8	5.7	0.218	0.467	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/20/82-12/14/92	7	0.316	0.666	1.995	0.158	0.452	0.672	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/20/82-12/14/92	7	3.	28.429	158.	1.	3316.952	57.593	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/16/82-12/14/92	6	0.115	0.155	0.48	0.01	0.029	0.17	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/20/82-12/14/92	6	0.63	0.645	0.97	0.23	0.076	0.276	**	**	**	**
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	10/20/82-12/14/92	6	1.	0.983	1.5	0.6	0.106	0.325	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/20/82-12/14/92	6	0.25	0.217	0.35	0.06	0.014	0.119	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/20/82-12/14/92	7	31.	63.	122.	19.	2354.	48.518	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	10/20/82-12/14/92	7 ##	0.5	1.643	5.	0.5	3.893	1.973	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/20/82-12/14/92	7	1.	1.786	5.	0.5	2.905	1.704	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/20/82-12/14/92	7	4.	5.429	12.	0.5	21.202	4.605	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/20/82-12/14/92	7 ##	5.	5.871	20.	0.1	43.282	6.579	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/20/82-12/14/92	7	19.	25.143	81.	7.	655.81	25.609	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/20/82-12/14/92	7 ##	0.1	0.1	0.1	0.1	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

Annual Analysis for 1985 - Station GRSM0264

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/20/82-12/14/92	8	436.5	465.875	774.	256.	41034.696	202.57	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	10/20/82-12/14/92	8	8.8	8.325	11.	5.	5.245	2.29	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	10/20/82-12/14/92	8 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	10/20/82-12/14/92	7	20.	19.271	33.1	2.5	136.106	11.666	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/20/82-12/14/92	8	6.8	5.963	7.5	2.8	3.528	1.878	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/20/82-12/14/92	8	6.789	3.527	7.5	2.8	10.31	3.211	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/20/82-12/14/92	8	0.163	297.498	1584.893	0.032	347829.117	589.77	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/20/82-12/14/92	8	3.5	4.625	13.	0.5	21.339	4.619	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/16/82-12/14/92	7	0.14	0.161	0.24	0.11	0.002	0.05	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/20/82-12/14/92	7	0.58	0.676	0.92	0.43	0.042	0.205	**	**	**	**
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	10/20/82-12/14/92	8	0.7	0.7	1.2	0.3	0.08	0.283	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/20/82-12/14/92	7	0.15	0.164	0.34	0.04	0.009	0.093	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/20/82-12/14/92	8	68.5	81.625	165.	43.	2023.411	44.982	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	10/20/82-12/14/92	8 ##	0.5	0.688	1.	0.5	0.067	0.259	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/20/82-12/14/92	8 ##	2.25	1.875	2.5	1.	0.554	0.744	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/20/82-12/14/92	8	15.	14.	22.	5.	38.857	6.234	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/20/82-12/14/92	7 ##	12.5	25.214	74.	5.	730.321	27.024	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/20/82-12/14/92	8	9.5	55.313	338.	2.5	13299.138	115.322	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/20/82-12/14/92	8 ##	0.1	0.138	0.4	0.1	0.011	0.106	**	**	**	**

** - Less 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 GRSM0264

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/20/82-12/14/92	10	481.	375.3	687.	91.	42305.344	205.683	95.7	158.25	503.25	668.7
00300	OXYGEN, DISSOLVED MG/L	10/20/82-12/14/92	10	8.95	7.92	10.3	5.	4.004	2.001	5.	5.75	9.25	10.27
00310	BOD, 5 DAY, 20 DEG C MG/L	10/20/82-12/14/92	10 ##	2.5	2.75	5.	2.5	0.625	0.791	2.5	2.5	2.5	4.75
00335	COD, .025N K2CR2O7 MG/L	10/20/82-12/14/92	9	37.3	37.978	85.6	2.5	900.382	30.006	2.5	5.25	62.	85.6
00403	PH, LAB, STANDARD UNITS SU	10/20/82-12/14/92	10	7.6	7.6	8.3	6.9	0.289	0.537	6.91	7.075	8.075	8.3
00403	CONVERTED PH, LAB, STANDARD UNITS	10/20/82-12/14/92	10	7.504	7.346	8.3	6.9	0.361	0.6	6.91	7.075	8.075	8.3
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/20/82-12/14/92	10	0.031	0.045	0.126	0.005	0.002	0.044	0.005	0.009	0.085	0.123
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/20/82-12/14/92	10 ##	1.75	3.75	10.	0.5	16.625	4.077	0.5	0.5	8.5	10.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/16/82-12/14/92	10	0.13	0.135	0.26	0.02	0.008	0.087	0.021	0.045	0.21	0.258
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/20/82-12/14/92	10	0.61	0.585	1.06	0.14	0.092	0.303	0.146	0.283	0.837	1.04

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

Annual Analysis for 1986 - Station GRSM0264

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	10/20/82-12/14/92	10	0.7	0.67	1.1	0.2	0.076	0.275	0.22	0.475	0.9	1.08
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/20/82-12/14/92	10	0.22	0.198	0.32	0.04	0.011	0.105	0.042	0.098	0.305	0.32
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/20/82-12/14/92	10	90.	159.2	882.	26.	66904.844	258.66	26.	28.25	145.	809.8
01002	ARSENIC, TOTAL (UG/L AS AS)	10/20/82-12/14/92	10 ##	0.75	0.85	2.	0.5	0.225	0.474	0.5	0.5	1.	1.9
01027	CADMIUM, TOTAL (UG/L AS CD)	10/20/82-12/14/92	10 ##	1.	1.15	2.5	1.	0.225	0.474	1.	1.	1.	2.35
01042	COPPER, TOTAL (UG/L AS CU)	10/20/82-12/14/92	10 ##	2.5	3.5	10.	2.5	5.833	2.415	2.5	2.5	3.125	9.5
01051	LEAD, TOTAL (UG/L AS PB)	10/20/82-12/14/92	10 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01092	ZINC, TOTAL (UG/L AS ZN)	10/20/82-12/14/92	10	44.	72.	250.	2.5	5775.944	76.	2.5	14.125	106.25	239.
71900	MERCURY, TOTAL (UG/L AS HG)	10/20/82-12/14/92	9 ##	0.1	0.111	0.2	0.1	0.001	0.033	0.1	0.1	0.1	0.2

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

Annual Analysis for 1987 - Station GRSM0264

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/20/82-12/14/92	10	271.	327.8	683.	33.	65538.4	256.005	33.5	125.	660.75	682.5
00300	OXYGEN, DISSOLVED MG/L	10/20/82-12/14/92	10	8.5	8.57	10.4	6.	2.445	1.564	6.05	7.1	10.	10.36
00310	BOD, 5 DAY, 20 DEG C MG/L	10/20/82-12/14/92	11 ##	2.5	2.5	2.5	2.5	0.	0.	2.5	2.5	2.5	2.5
00335	COD, .025N K2CR2O7 MG/L	10/20/82-12/14/92	9	15.2	24.889	57.5	2.5	388.954	19.722	2.5	10.7	45.6	57.5
00403	PH, LAB, STANDARD UNITS SU	10/20/82-12/14/92	11	7.2	7.109	7.5	6.4	0.135	0.367	6.44	6.9	7.4	7.5
00403	CONVERTED PH, LAB, STANDARD UNITS	10/20/82-12/14/92	11	7.2	6.951	7.5	6.4	0.162	0.403	6.44	6.9	7.4	7.5
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/20/82-12/14/92	11	0.063	0.112	0.398	0.032	0.013	0.115	0.032	0.04	0.126	0.369
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/20/82-12/14/92	11	4.	2.955	6.	0.5	4.373	2.091	0.5	0.5	5.	5.8
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/16/82-12/14/92	9	0.07	0.081	0.18	0.01	0.003	0.057	0.01	0.035	0.13	0.18
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/20/82-12/14/92	11	0.67	0.71	1.49	0.14	0.107	0.327	0.204	0.58	0.83	1.358
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	10/20/82-12/14/92	11	0.4	0.395	1.1	0.05	0.075	0.274	0.08	0.2	0.4	1.
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/20/82-12/14/92	9	0.1	0.128	0.32	0.03	0.008	0.087	0.03	0.065	0.17	0.32
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/20/82-12/14/92	11	36.	46.545	130.	1.	1401.673	37.439	1.2	26.	63.	120.8
01002	ARSENIC, TOTAL (UG/L AS AS)	10/20/82-12/14/92	9 ##	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
01027	CADMIUM, TOTAL (UG/L AS CD)	10/20/82-12/14/92	9 ##	1.	0.9	1.	0.1	0.09	0.3	0.1	1.	1.	1.
01042	COPPER, TOTAL (UG/L AS CU)	10/20/82-12/14/92	9 ##	2.5	4.667	12.	2.5	13.813	3.717	2.5	2.5	7.5	12.
01051	LEAD, TOTAL (UG/L AS PB)	10/20/82-12/14/92	9 ##	5.	5.778	12.	5.	5.444	2.333	5.	5.	5.	12.
01092	ZINC, TOTAL (UG/L AS ZN)	10/20/82-12/14/92	9	8.	8.056	15.	2.5	26.215	5.12	2.5	2.5	13.	15.
71900	MERCURY, TOTAL (UG/L AS HG)	10/20/82-12/14/92	10 ##	0.1	0.15	0.3	0.1	0.005	0.071	0.1	0.1	0.2	0.29

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Annual Analysis for 1988 - Station GRSM0264

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/20/82-12/14/92	12	459.	421.583	710.	78.	43548.629	208.683	80.7	276.5	603.75	700.4
00300	OXYGEN, DISSOLVED MG/L	10/20/82-12/14/92	10	9.	9.	11.5	6.2	3.311	1.82	6.27	7.125	10.675	11.47
00310	BOD, 5 DAY, 20 DEG C MG/L	10/20/82-12/14/92	10 ##	2.5	2.5	2.5	2.5	0.	0.	2.5	2.5	2.5	2.5
00335	COD, .025N K2CR2O7 MG/L	10/20/82-12/14/92	11	31.9	24.509	46.4	2.5	363.471	19.065	2.5	2.5	44.7	46.26
00403	PH, LAB, STANDARD UNITS SU	10/20/82-12/14/92	12	6.85	6.917	7.3	6.5	0.045	0.212	6.59	6.8	7.1	7.24
00403	CONVERTED PH, LAB, STANDARD UNITS	10/20/82-12/14/92	12	6.847	6.869	7.3	6.5	0.048	0.218	6.59	6.8	7.1	7.24
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/20/82-12/14/92	12	0.142	0.135	0.316	0.05	0.005	0.07	0.059	0.079	0.158	0.269
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/20/82-12/14/92	12	4.	5.958	23.	0.5	42.794	6.542	0.5	1.125	6.75	20.3
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/16/82-12/14/92	11	0.06	0.075	0.19	0.01	0.003	0.058	0.012	0.03	0.14	0.18
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/20/82-12/14/92	11	0.53	0.484	0.67	0.22	0.027	0.165	0.222	0.32	0.66	0.67
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	10/20/82-12/14/92	12	0.4	0.396	0.7	0.05	0.028	0.168	0.095	0.3	0.5	0.64
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/20/82-12/14/92	12	0.125	0.13	0.23	0.06	0.002	0.048	0.066	0.1	0.155	0.221
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/20/82-12/14/92	12	53.5	57.417	133.	3.	1626.265	40.327	7.2	22.	80.25	128.5
01002	ARSENIC, TOTAL (UG/L AS AS)	10/20/82-12/14/92	11 ##	1.	0.955	1.	0.5	0.023	0.151	0.6	1.	1.	1.
01027	CADMIUM, TOTAL (UG/L AS CD)	10/20/82-12/14/92	11 ##	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.

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Annual Analysis for 1988 - Station GRSM0264

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01042	COPPER, TOTAL (UG/L AS CU)	10/20/82-12/14/92	11 ##	2.5	7.545	24.	2.5	48.523	6.966	2.5	2.5	12.	21.8
01051	LEAD, TOTAL (UG/L AS PB)	10/20/82-12/14/92	11 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01092	ZINC, TOTAL (UG/L AS ZN)	10/20/82-12/14/92	11 ##	2.5	5.227	17.	1.	28.318	5.321	1.3	2.5	9.	16.2
71900	MERCURY, TOTAL (UG/L AS HG)	10/20/82-12/14/92	11 ##	0.1	0.1	0.1	0.1	0.	0.	0.1	0.1	0.1	0.1

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Annual Analysis for 1989 - Station GRSM0264

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/20/82-12/14/92	8	195.	186.5	273.	55.	5489.714	74.093	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	10/20/82-12/14/92	8	9.25	9.262	11.2	7.3	2.231	1.494	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	10/20/82-12/14/92	4 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	10/20/82-12/14/92	8	14.8	15.3	35.8	2.5	113.537	10.655	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/20/82-12/14/92	8	7.3	7.1	7.4	6.2	0.171	0.414	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/20/82-12/14/92	8	7.3	6.862	7.4	6.2	0.236	0.486	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/20/82-12/14/92	8	0.05	0.137	0.631	0.04	0.041	0.203	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/20/82-12/14/92	8	5.	5.25	11.	0.5	14.143	3.761	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/16/82-12/14/92	8	0.045	0.053	0.13	0.005	0.002	0.043	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/20/82-12/14/92	8	0.415	0.39	0.48	0.22	0.007	0.086	**	**	**	**
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	10/20/82-12/14/92	8	0.25	0.299	0.5	0.09	0.023	0.153	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/20/82-12/14/92	8	0.07	0.076	0.14	0.005	0.002	0.041	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/20/82-12/14/92	8	41.5	45.	86.	14.	614.857	24.796	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	10/20/82-12/14/92	8 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/20/82-12/14/92	8 ##	1.	1.125	2.	1.	0.125	0.354	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/20/82-12/14/92	8 ##	3.75	7.875	37.	2.5	140.554	11.856	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/20/82-12/14/92	8 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/20/82-12/14/92	8 ##	2.5	6.719	33.	0.25	117.597	10.844	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/20/82-12/14/92	8 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**

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Annual Analysis for 1990 - Station GRSM0264

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/20/82-12/14/92	2	260.	260.	304.	216.	3872.	62.225	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	10/20/82-12/14/92	3	8.8	9.2	11.3	7.5	3.73	1.931	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	10/20/82-12/14/92	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	10/20/82-12/14/92	3	20.1	23.4	34.4	15.7	95.59	9.777	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/20/82-12/14/92	2	7.25	7.25	7.4	7.1	0.045	0.212	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/20/82-12/14/92	2	7.225	7.225	7.4	7.1	0.046	0.215	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/20/82-12/14/92	2	0.06	0.06	0.079	0.04	0.001	0.028	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/20/82-12/14/92	2	11.5	11.5	16.	7.	40.5	6.364	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/16/82-12/14/92	3	0.13	0.15	0.21	0.11	0.003	0.053	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/20/82-12/14/92	3	0.5	0.497	0.56	0.43	0.004	0.065	**	**	**	**
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	10/20/82-12/14/92	3	0.5	0.467	0.6	0.3	0.023	0.153	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/20/82-12/14/92	3	0.09	0.083	0.11	0.05	0.001	0.031	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/20/82-12/14/92	3	48.	51.333	62.	44.	89.333	9.452	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	10/20/82-12/14/92	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/20/82-12/14/92	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/20/82-12/14/92	3 ##	2.5	7.	16.	2.5	60.75	7.794	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/20/82-12/14/92	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/20/82-12/14/92	3	23.	17.5	27.	2.5	172.75	13.143	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/20/82-12/14/92	3 ##	0.1	0.233	0.5	0.1	0.053	0.231	**	**	**	**

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Annual Analysis for 1991 - Station GRSM0264

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/20/82-12/14/92	4	192.5	187.75	227.	139.	2024.917	44.999	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	10/20/82-12/14/92	4	9.25	9.125	10.3	7.7	1.883	1.372	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	10/20/82-12/14/92	3 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	10/20/82-12/14/92	4	11.35	12.025	22.9	2.5	71.182	8.437	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/20/82-12/14/92	4	7.3	7.375	7.7	7.2	0.049	0.222	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/20/82-12/14/92	4	7.3	7.339	7.7	7.2	0.051	0.226	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/20/82-12/14/92	4	0.05	0.046	0.063	0.02	0.	0.018	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/20/82-12/14/92	4	9.	12.	27.	3.	110.667	10.52	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/16/82-12/14/92	4	0.065	0.078	0.12	0.06	0.001	0.029	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/20/82-12/14/92	4	0.46	0.473	0.56	0.41	0.004	0.063	**	**	**	**
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	10/20/82-12/14/92	4	0.3	0.3	0.4	0.2	0.007	0.082	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/20/82-12/14/92	4	0.04	0.048	0.08	0.03	0.	0.022	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/20/82-12/14/92	4	54.	47.5	60.	22.	307.667	17.54	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	10/20/82-12/14/92	4 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/20/82-12/14/92	4 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/20/82-12/14/92	4 ##	2.5	5.625	15.	2.5	39.063	6.25	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/20/82-12/14/92	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/20/82-12/14/92	3	6.	5.167	7.	2.5	5.583	2.363	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/20/82-12/14/92	4 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**

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Annual Analysis for 1992 - Station GRSM0264

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/20/82-12/14/92	3	228.	230.667	260.	204.	789.333	28.095	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	10/20/82-12/14/92	3	8.1	8.433	10.1	7.1	2.333	1.528	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	10/20/82-12/14/92	3 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	10/20/82-12/14/92	3	19.3	17.967	20.4	14.2	10.943	3.308	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/20/82-12/14/92	3	7.3	7.3	7.4	7.2	0.01	0.1	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/20/82-12/14/92	3	7.3	7.292	7.4	7.2	0.01	0.1	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/20/82-12/14/92	3	0.05	0.051	0.063	0.04	0.	0.012	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/20/82-12/14/92	3	5.	8.333	15.	5.	33.333	5.774	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/16/82-12/14/92	3	0.09	0.1	0.14	0.07	0.001	0.036	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/20/82-12/14/92	3	0.53	0.517	0.55	0.47	0.002	0.042	**	**	**	**
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	10/20/82-12/14/92	3	0.4	0.333	0.4	0.2	0.013	0.115	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/20/82-12/14/92	3	0.02	0.018	0.03	0.005	0.	0.013	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/20/82-12/14/92	3	55.	60.667	78.	49.	234.333	15.308	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	10/20/82-12/14/92	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/20/82-12/14/92	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/20/82-12/14/92	3 ##	2.5	3.333	7.	0.5	11.083	3.329	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/20/82-12/14/92	3 ##	2.	2.167	2.5	2.	0.083	0.289	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/20/82-12/14/92	3	5.	9.667	19.	5.	65.333	8.083	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/20/82-12/14/92	3 ##	0.1	0.1	0.1	0.1	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 #1: 10/01 to 3/31 - Station GRSM0264

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/20/82-12/14/92	41	8.5	9.054	17.5	1.5	16.89	4.11	4.42	6.	11.	16.6
00080	COLOR (PLATINUM-COBALT UNITS)	10/20/82-12/14/92	43	84.	100.186	240.	15.	3106.155	55.733	33.	58.	154.	179.6
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	02/16/83-12/14/92	14	105.	116.5	250.	46.	3546.115	59.549	52.5	65.75	144.25	225.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/20/82-12/14/92	45	304.	378.178	971.	33.	50822.695	225.439	120.6	202.5	532.	684.2
00300	OXYGEN, DISSOLVED MG/L	10/20/82-12/14/92	46	9.85	9.257	11.5	5.	2.334	1.528	6.97	8.075	10.3	11.06
00310	BOD, 5 DAY, 20 DEG C MG/L	10/20/82-12/14/92	44 ##	2.5	2.33	5.	0.5	0.581	0.762	1.	2.5	2.5	2.5
00324	BOD, 20 DAY, 20 DEG C MG/L	12/16/82-02/25/92	17	4.	3.647	6.	2.	1.68	1.296	2.	2.5	5.	5.2
00335	COD, .025N K2CR2O7 MG/L	10/20/82-12/14/92	44	18.65	24.152	85.6	2.5	355.215	18.847	2.5	11.1	35.	49.4
00403	PH, LAB, STANDARD UNITS SU	10/20/82-12/14/92	47	7.	6.962	8.3	2.8	0.642	0.801	6.36	6.8	7.3	7.74
00403	CONVERTED PH, LAB, STANDARD UNITS	10/20/82-12/14/92	47	7.	4.47	8.3	2.8	6.986	2.643	6.36	6.8	7.3	7.74
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/20/82-12/14/92	47	0.1	33.897	1584.893	0.005	53432.348	231.154	0.018	0.05	0.158	0.445
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/20/82-12/14/92	47	185.	227.532	573.	4.	20315.385	142.532	60.8	125.	296.	447.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/20/82-12/14/92	47	4.	9.394	158.	0.5	553.738	23.532	0.5	1.	7.	19.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/16/82-12/14/92	42	0.13	0.127	0.48	0.01	0.006	0.08	0.036	0.068	0.16	0.197
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/20/82-12/14/92	45	0.56	1.708	50.	0.14	54.279	7.367	0.326	0.44	0.755	1.006
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	10/20/82-12/14/92	47	0.5	0.528	1.5	0.1	0.091	0.302	0.2	0.3	0.7	1.02
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/20/82-12/14/92	44	0.14	0.15	0.35	0.005	0.007	0.083	0.04	0.103	0.208	0.285
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/20/82-12/14/92	48	53.5	77.625	882.	1.	15352.75	123.906	25.7	31.5	85.5	122.
01002	ARSENIC, TOTAL (UG/L AS AS)	10/20/82-12/14/92	47 ##	1.	1.096	5.	0.5	0.659	0.812	0.5	1.	1.	2.
01027	CADMIUM, TOTAL (UG/L AS CD)	10/20/82-12/14/92	47 ##	1.	1.096	5.	0.5	0.627	0.792	0.5	0.5	1.	2.5
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/20/82-12/14/92	14 ##	4.	3.714	11.	0.5	9.066	3.011	0.5	0.5	5.	9.
01042	COPPER, TOTAL (UG/L AS CU)	10/20/82-12/14/92	47 ##	2.5	6.532	23.	0.5	37.95	6.16	2.4	2.5	10.	18.
01045	IRON, TOTAL (UG/L AS FE)	10/13/83-12/14/92	36	436.	540.361	1328.	28.	84686.637	291.01	282.9	339.25	716.	1012.
01051	LEAD, TOTAL (UG/L AS PB)	10/20/82-12/14/92	46 ##	5.	11.263	110.	0.1	379.469	19.48	5.	5.	6.25	21.5
01055	MANGANESE, TOTAL (UG/L AS MN)	10/13/83-12/14/92	36	80.5	139.917	876.	13.	25565.336	159.892	37.8	67.	167.75	326.1
01067	NICKEL, TOTAL (UG/L AS NI)	02/16/83-12/14/92	9 ##	10.	29.111	204.	1.5	4314.799	65.687	1.5	3.25	10.	204.
01092	ZINC, TOTAL (UG/L AS ZN)	10/20/82-12/14/92	46	7.5	52.158	800.	0.25	18774.409	137.02	2.5	2.5	27.75	132.4
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/20/82-12/14/92	43	320.	377.651	1170.	50.	59967.661	244.883	126.	230.	460.	681.2
71900	MERCURY, TOTAL (UG/L AS HG)	10/20/82-12/14/92	46 ##	0.1	0.12	0.5	0.1	0.006	0.075	0.1	0.1	0.1	0.13

** - Less 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: 4/01 to 9/30 - Station GRSM0264

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/20/82-12/14/92	24	19.	17.8	25.	0.2	29.798	5.459	10.	16.	21.45	23.
00080	COLOR (PLATINUM-COBALT UNITS)	10/20/82-12/14/92	30	61.5	75.84	201.	0.2	3112.823	55.793	10.5	24.75	120.	163.8
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	02/16/83-12/14/92	12	81.	117.167	492.	9.	18100.152	134.537	12.	28.	127.5	418.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/20/82-12/14/92	32	253.5	308.375	806.	38.	51925.661	227.872	58.3	138.25	473.	703.1
00300	OXYGEN, DISSOLVED MG/L	10/20/82-12/14/92	31	7.7	7.69	10.	5.	2.352	1.534	5.16	6.2	9.	9.82
00310	BOD, 5 DAY, 20 DEG C MG/L	10/20/82-12/14/92	27 ##	2.5	2.204	3.	0.5	0.486	0.697	0.5	2.5	2.5	2.5
00324	BOD, 20 DAY, 20 DEG C MG/L	12/16/82-02/25/92	10 ##	2.5	4.25	17.	1.	20.958	4.578	1.15	2.5	4.	15.7
00335	COD, .025N K2CR2O7 MG/L	10/20/82-12/14/92	30	18.75	20.107	58.7	2.5	241.231	15.532	2.5	2.5	32.2	41.17
00403	PH, LAB, STANDARD UNITS SU	10/20/82-12/14/92	32	7.1	6.888	8.	3.1	0.639	0.799	6.26	6.7	7.3	7.4
00403	CONVERTED PH, LAB, STANDARD UNITS	10/20/82-12/14/92	32	7.1	4.603	8.	3.1	6.028	2.455	6.26	6.7	7.3	7.4
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/20/82-12/14/92	32	0.079	24.971	794.328	0.01	19709.836	140.392	0.04	0.05	0.2	0.561
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/20/82-12/14/92	28	150.	195.429	563.	7.	20550.921	143.356	42.1	98.5	311.75	417.9
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/20/82-12/14/92	32	4.5	6.	30.	0.5	38.79	6.228	0.5	1.	8.	15.4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/16/82-12/14/92	31	0.06	0.079	0.26	0.005	0.005	0.068	0.01	0.03	0.11	0.206
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/20/82-12/14/92	31	0.53	0.551	1.4	0.14	0.082	0.287	0.22	0.35	0.7	0.902
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	10/20/82-12/14/92	31	0.4	0.495	1.1	0.05	0.09	0.3	0.058	0.3	0.7	0.9
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/20/82-12/14/92	32	0.09	0.128	0.34	0.005	0.01	0.1	0.03	0.06	0.193	0.32
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/20/82-12/14/92	32	47.	58.781	160.	2.	2070.757	45.506	14.3	22.	94.	135.1
01002	ARSENIC, TOTAL (UG/L AS AS)	10/20/82-12/14/92	30 ##	1.	1.1	5.	0.5	0.783	0.885	0.5	0.5	1.	1.9
01027	CADMIUM, TOTAL (UG/L AS CD)	10/20/82-12/14/92	30 ##	1.	1.037	3.	0.1	0.371	0.609	0.5	0.5	1.	2.
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/20/82-12/14/92	8 ##	5.	25.75	180.	0.5	3888.714	62.36	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/20/82-12/14/92	30	6.5	9.017	37.	2.5	62.388	7.899	2.5	2.5	12.25	19.7

** - 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: 4/01 to 9/30 - Station GRSM0264

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01045	IRON, TOTAL (UG/L AS FE)	10/13/83-12/14/92	23	385.	469.304	1250.	32.	92055.04	303.406	78.	310.	591.	908.2
01051	LEAD, TOTAL (UG/L AS PB)	10/20/82-12/14/92	30 ##	5.	6.1	40.	1.	42.714	6.536	5.	5.	5.	5.
01055	MANGANESE, TOTAL (UG/L AS MN)	10/13/83-12/14/92	23	63.	89.739	266.	4.	4988.747	70.631	10.6	40.	147.	203.2
01067	NICKEL, TOTAL (UG/L AS NI)	02/16/83-12/14/92	3 ##	10.	8.667	10.	6.	5.333	2.309	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/20/82-12/14/92	30	12.5	22.583	140.	0.5	932.795	30.542	2.5	2.5	28.5	67.3
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/20/82-12/14/92	27	270.	369.704	1800.	50.	132309.986	363.744	50.	160.	410.	889.2
71900	MERCURY, TOTAL (UG/L AS HG)	10/20/82-12/14/92	31 ##	0.1	0.161	1.6	0.1	0.073	0.27	0.1	0.1	0.1	0.2

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

Station Inventory for Station: GRSM0265

NPS Station ID: GRSM0265
Location: NORTH OF DENTON
Station Type: /TYPA/AMBNT/STREAM
RMI-Indexes: 1021500 007720 00920 9300 2520
RMI-Miles: 0953.80 0046.50 652.10 073.80 016.00
HUC: 06010106
Major Basin: FRENCH BROAD RIVER BASIN
Minor Basin: PIGEON RIVER 16.0
RF1 Index: 06010106
RF3 Index: 06010106057500.00
Description:

LAT/LON: 35.850004/ -83.188059
Depth of Water: 0
Elevation: 0
RF1 Mile Point: 0.000
RF3 Mile Point: 0.00

Agency: 131TVAC
FIPS State/County: 47029 TENNESSEE/COCKE
STORET Station ID(s): 477172
Within Park Boundary: No
Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 0.80
Distance from RF3: 0.00

Date Created: 08/12/89
On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: GRSM0265

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/28/89-06/28/89	3	19.	19.	19.	19.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/28/89-06/28/89	3	168.	167.667	168.	167.	0.333	0.577	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/28/89-06/28/89	3	9.3	9.3	9.3	9.3	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/28/89-06/28/89	3	7.08	7.073	7.1	7.04	0.001	0.031	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/28/89-06/28/89	3	7.08	7.073	7.1	7.04	0.001	0.031	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/28/89-06/28/89	3	0.083	0.085	0.091	0.079	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 time series plot

EPA Water Quality Criteria Analysis for Station: GRSM0265

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a 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						

& - 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 GRSM Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	430	8	0.02	192	4	0.02	238	4	0.02						
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	903	10	0.01	393	5	0.01	510	5	0.01						
00154	SULFATE (AS S) WHOLE WATER	Drinking Water	400.	6	0	0.00	6	0	0.00									
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Fresh Acute	4.	44	0	0.00	9	0	0.00	35	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	8441	402	0.05	3400	149	0.04	5041	253	0.05						
00400	PH	Other-Hi Lim.	9.	5578	12	0.00	2060	0	0.00	3518	12	0.00						
		Other-Lo Lim.	6.5	5578	3040	0.54	2060	1443	0.70	3518	1597	0.45						
00403	PH, LAB	Other-Hi Lim.	9.	1017	0	0.00	511	0	0.00	506	0	0.00						
		Other-Lo Lim.	6.5	1017	318	0.31	511	182	0.36	506	136	0.27						
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	50	48	0.96	15	13	0.87	35	35	1.00						
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	82	0	0.00	45	0	0.00	37	0	0.00						
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	222	0	0.00	116	0	0.00	106	0	0.00						
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	44	0	0.00	35	0	0.00	9	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	201	0	0.00	104	0	0.00	97	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1573	2	0.00	683	1	0.00	890	1	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	134	0	0.00	74	0	0.00	60	0	0.00						
00720	CYANIDE, TOTAL	Fresh Acute	0.022	31 &	0	0.00	7	0	0.00	24	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	938	0	0.00	481	0	0.00	457	0	0.00						
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	50	0	0.00	15	0	0.00	35	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	974	0	0.00	503	0	0.00	471	0	0.00						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	124	0	0.00	57	0	0.00	67	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	99	0	0.00	44	0	0.00	55	0	0.00						
		Drinking Water	50.	99	39	0.39	44	8	0.18	55	31	0.56						
01001	ARSENIC, SUSPENDED	Fresh Acute	360.	17	0	0.00	12	0	0.00	5	0	0.00						
		Drinking Water	50.	17	0	0.00	12	0	0.00	5	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	520	0	0.00	246	0	0.00	274	0	0.00						
		Drinking Water	50.	520	2	0.00	246	1	0.00	274	1	0.00						
01005	BARIUM, DISSOLVED	Drinking Water	2000.	67	0	0.00	38	0	0.00	29	0	0.00						
01006	BARIUM, SUSPENDED	Drinking Water	2000.	4	0	0.00	4	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	35	0	0.00	15	0	0.00	20	0	0.00						
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	47	0	0.00	27	0	0.00	20	0	0.00						
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	21	0	0.00	8	0	0.00	13	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	62 &	2	0.03	35	2	0.06	27	0	0.00						
		Drinking Water	5.	62 &	1	0.02	35	1	0.03	27	0	0.00						
01026	CADMIUM, SUSPENDED	Fresh Acute	3.9	15	2	0.13	11	2	0.18	4	0	0.00						
		Drinking Water	5.	15	2	0.13	11	2	0.18	4	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	301 &	5	0.02	154	4	0.03	147	1	0.01						
		Drinking Water	5.	301 &	4	0.01	154	3	0.02	147	1	0.01						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	124	0	0.00	56	0	0.00	68	0	0.00						
01031	CHROMIUM, SUSPENDED	Drinking Water	100.	33	0	0.00	22	0	0.00	11	0	0.00						
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	4 &	0	0.00	1	0	0.00	3	0	0.00						
		Drinking Water	100.	5	0	0.00	2	0	0.00	3	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	525	2	0.00	234	0	0.00	291	2	0.01						
01040	COPPER, DISSOLVED	Fresh Acute	18.	130 &	1	0.01	59	0	0.00	71	1	0.01						
		Drinking Water	1300.	131	0	0.00	60	0	0.00	71	0	0.00						
01041	COPPER, SUSPENDED	Fresh Acute	18.	31	1	0.03	19	0	0.00	12	1	0.08						
		Drinking Water	1300.	31	0	0.00	19	0	0.00	12	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	499 &	98	0.20	236	39	0.17	263	59	0.22						
		Drinking Water	1300.	677	5	0.01	307	0	0.00	370	5	0.01						
01049	LEAD, DISSOLVED	Fresh Acute	82.	84	0	0.00	49	0	0.00	35	0	0.00						
		Drinking Water	5.	78 &	12	0.15	44	7	0.16	34	5	0.15						
01050	LEAD, SUSPENDED	Fresh Acute	82.	32	2	0.06	20	1	0.05	12	1	0.08						
		Drinking Water	5.	32	16	0.50	20	11	0.55	12	5	0.42						
01051	LEAD, TOTAL	Fresh Acute	82.	615 &	17	0.03	278	11	0.04	337	6	0.02						
		Drinking Water	5.	91 &	69	0.76	46	34	0.74	45	35	0.78						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	69	0	0.00	38	0	0.00	31	0	0.00						
		Drinking Water	100.	69	0	0.00	38	0	0.00	31	0	0.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	392	0	0.00	188	0	0.00	204	0	0.00						
		Drinking Water	100.	391 &	13	0.03	188	3	0.02	203	10	0.05						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	87 &	19	0.22	43	5	0.12	44	14	0.32						
		Drinking Water	50.	110 &	11	0.10	44	4	0.09	66	7	0.11						
01076	SILVER, SUSPENDED	Fresh Acute	4.1	5	0	0.00	4	0	0.00	1	0	0.00						
		Drinking Water	50.	5	0	0.00	4	0	0.00	1	0	0.00						

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

EPA Water Quality Criteria Analysis for Entire GRSM Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01077	SILVER, TOTAL	Fresh Acute	4.1	20 &	0	0.00	12	0	0.00	8	0	0.00						
		Drinking Water	50.	40	0	0.00	20	0	0.00	20	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	112	0	0.00	57	0	0.00	55	0	0.00						
01091	ZINC, SUSPENDED	Fresh Acute	120.	30	0	0.00	18	0	0.00	12	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	719	38	0.05	353	10	0.03	366	28	0.08						
01097	ANTIMONY, TOTAL	Fresh Acute	88.	1 &	0	0.00				1	0	0.00						
		Drinking Water	10.	0 &	0	0.00												
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	67	0	0.00	38	0	0.00	29	0	0.00						
		Drinking Water	50.	67	0	0.00	38	0	0.00	29	0	0.00						
01146	SELENIUM, SUSPENDED	Fresh Acute	20.	5	0	0.00	4	0	0.00	1	0	0.00						
		Drinking Water	50.	5	0	0.00	4	0	0.00	1	0	0.00						
01147	SELENIUM, TOTAL	Fresh Acute	20.	26 &	0	0.00	15	0	0.00	11	0	0.00						
		Drinking Water	50.	27	0	0.00	15	0	0.00	12	0	0.00						
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	25	0	0.00	13	0	0.00	12	0	0.00						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	254	67	0.26	113	18	0.16	141	49	0.35						
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	43	24	0.56	19	8	0.42	24	16	0.67						
31508	COLIFORM, TOTAL, MPN, COMP. TEST, TUBE C	Other-Hi Lim.	1000.	90	0	0.00	23	0	0.00	67	0	0.00						
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	40	20	0.50	16	7	0.44	24	13	0.54						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1494	262	0.18	629	110	0.17	865	152	0.18						
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	113	3	0.03	58	0	0.00	55	3	0.05						
32101	BROMODICHLOROMETHANE, WHOLE WATER	Drinking Water	100.	1	0	0.00				1	0	0.00						
32102	CARBON TETRACHLORIDE, WHOLE WATER	Fresh Acute	35200.	1	0	0.00				1	0	0.00						
		Drinking Water	5.	0 &	0	0.00												
32103	1,2-DICHLOROETHANE,WHOLE WATER	Fresh Acute	118000.	1	0	0.00				1	0	0.00						
		Drinking Water	5.	0 &	0	0.00												
32104	BROMOFORM, WHOLE WATER	Drinking Water	100.	1	0	0.00				1	0	0.00						
32106	CHLOROFORM, WHOLE WATER	Fresh Acute	28900.	2	0	0.00				2	0	0.00						
		Drinking Water	100.	2	0	0.00				2	0	0.00						
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE E	Fresh Acute	17500.	1	0	0.00				1	0	0.00						
		Drinking Water	1000.	1	0	0.00				1	0	0.00						
34205	ACENAPHTHENE, TOTAL	Fresh Acute	1700.	1	0	0.00				1	0	0.00						
34210	ACROLEIN, TOTAL	Fresh Acute	68.	1	0	0.00				1	0	0.00						
34215	ACRYLONITRILE, TOTAL	Fresh Acute	7550.	1	0	0.00				1	0	0.00						
34301	CHLOROBENZENE, TOTAL	Drinking Water	100.	1	0	0.00				1	0	0.00						
34306	CHLORODIBROMOMETHANE, TOTAL	Drinking Water	100.	1	0	0.00				1	0	0.00						
34346	1,2-DIPHENYLHYDRAZINE, TOTAL	Fresh Acute	270.	1	0	0.00				1	0	0.00						
34356	ENDOSULFAN, BETA, TOTAL	Fresh Acute	0.22	1	0	0.00				1	0	0.00						
34361	ENDOSULFAN, ALPHA, TOTAL	Fresh Acute	0.22	1	0	0.00				1	0	0.00						
34371	ETHYLBENZENE, TOTAL	Fresh Acute	32000.	1	0	0.00				1	0	0.00						
		Drinking Water	700.	1	0	0.00				1	0	0.00						
34376	FLUORANTHENE, TOTAL	Fresh Acute	3980.	1	0	0.00				1	0	0.00						
34386	HEXACHLOROCYCLOPENTADIENE	Fresh Acute	7.	1	0	0.00				1	0	0.00						
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL	Drinking Water	50.	1	0	0.00				1	0	0.00						
34396	HEXACHLOROETHANE, TOTAL	Fresh Acute	980.	1	0	0.00				1	0	0.00						
34403	IDENO (1,2,3-CD) PYRENE	Drinking Water	0.4	0 &	0	0.00												
34423	METHYLENE CHLORIDE, TOTAL	Drinking Water	5.	0 &	0	0.00												
34447	NITROBENZENE, TOTAL	Fresh Acute	27000.	1	0	0.00				1	0	0.00						
34452	PARACHLOROMETA CRESOL, TOTAL	Fresh Acute	30.	1	0	0.00				1	0	0.00						
34461	PHENANTHRENE, TOTAL	Fresh Acute	30.	1	0	0.00				1	0	0.00						
34475	TETRACHLOROETHYLENE, TOTAL	Fresh Acute	5280.	1	0	0.00				1	0	0.00						
		Drinking Water	5.	0 &	0	0.00												
34501	1,1-DICHLOROETHYLENE, TOTAL	Drinking Water	7.	1	0	0.00				1	0	0.00						
34506	1,1,1-TRICHLOROETHANE, TOTAL	Drinking Water	200.	1	0	0.00				1	0	0.00						
34511	1,1,2-TRICHLOROETHANE, TOTAL	Drinking Water	5.	0 &	0	0.00												
34536	1,2-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00				1	0	0.00						
34541	1,2-DICHLOROPROPANE, TOTAL	Drinking Water	5.	0 &	0	0.00												
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATE	Drinking Water	100.	1	0	0.00				1	0	0.00						
34551	1,2,4-TRICHLOROBENZENE, TOTAL	Drinking Water	9.	1	0	0.00				1	0	0.00						
34566	1,3-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00				1	0	0.00						
34571	1,4-DICHLOROBENZENE, TOTAL	Drinking Water	75.	1	0	0.00				1	0	0.00						
34586	2-CHLOROPHENOL, TOTAL	Fresh Acute	4380.	1	0	0.00				1	0	0.00						
34601	2,4-DICHLOROPHENOL, TOTAL	Fresh Acute	2020.	1	0	0.00				1	0	0.00						

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

EPA Water Quality Criteria Analysis for Entire GRSM Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/31 Obs	10/01-3/31 Exceed	10/01-3/31 Prop.	4/01-9/30 Obs	4/01-9/30 Exceed	4/01-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
34606	2,4-DIMETHYLPHENOL, TOTAL	Fresh Acute	2120.	1	0	0.00				1	0	0.00						
34611	2,4-DINITROTOLUENE, TOTAL	Fresh Acute	330.	1	0	0.00				1	0	0.00						
34694	PHENOL (C6H5OH) - SINGLE COMPOUND, TOTAL	Fresh Acute	10200.	1	0	0.00				1	0	0.00						
34696	NAPHTHALENE, TOTAL	Fresh Acute	2300.	1	0	0.00				1	0	0.00						
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMP	Fresh Acute	20.	1	0	0.00				1	0	0.00						
		Drinking Water	1.	0 &	0	0.00												
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	Fresh Acute	400.	1	0	0.00				1	0	0.00						
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE	Drinking Water	2.	0 &	0	0.00												
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE	Fresh Acute	45000.	1	0	0.00				1	0	0.00						
		Drinking Water	5.	0 &	0	0.00												
39300	P,P' DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	1	0	0.00				1	0	0.00						
39310	P,P' DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	1	0	0.00				1	0	0.00						
39320	P,P' DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	1	0	0.00				1	0	0.00						
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	14	0	0.00	8	0	0.00	6	0	0.00						
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	12	0	0.00	7	0	0.00	5	0	0.00						
		Drinking Water	0.2	12	0	0.00	7	0	0.00	5	0	0.00						
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	11	0	0.00	7	0	0.00	4	0	0.00						
		Drinking Water	2.	11	0	0.00	7	0	0.00	4	0	0.00						
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	13	0	0.00	8	0	0.00	5	0	0.00						
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	13	0	0.00	8	0	0.00	5	0	0.00						
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	13	0	0.00	8	0	0.00	5	0	0.00						
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	14	0	0.00	8	0	0.00	6	0	0.00						
39388	ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute	0.22	5	0	0.00	3	0	0.00	2	0	0.00						
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	14	0	0.00	8	0	0.00	6	0	0.00						
		Drinking Water	0.2	14	0	0.00	8	0	0.00	6	0	0.00						
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	8	0	0.00	5	0	0.00	3	0	0.00						
		Drinking Water	3.	8	0	0.00	5	0	0.00	3	0	0.00						
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	14	0	0.00	8	0	0.00	6	0	0.00						
		Drinking Water	0.4	14	0	0.00	8	0	0.00	6	0	0.00						
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	13	0	0.00	8	0	0.00	5	0	0.00						
		Drinking Water	0.2	13	0	0.00	8	0	0.00	5	0	0.00						
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	5	0	0.00	3	0	0.00	2	0	0.00						
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	9	0	0.00	6	0	0.00	3	0	0.00						
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	Drinking Water	1.	0 &	0	0.00												
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	Fresh Acute	6.	1	0	0.00				1	0	0.00						
39702	HEXACHLOROBUTADIENE IN WHOLE WATER SAMPL	Fresh Acute	90.	1	0	0.00				1	0	0.00						
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	10	0	0.00	6	0	0.00	4	0	0.00						
39760	SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	10	0	0.00	6	0	0.00	4	0	0.00						
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	218	0	0.00	96	0	0.00	122	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	258	0	0.00	119	0	0.00	139	0	0.00						
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	56	0	0.00	33	0	0.00	23	0	0.00						
		Drinking Water	2.	56	0	0.00	33	0	0.00	23	0	0.00						
71895	MERCURY, SUSPENDED	Fresh Acute	2.4	12	0	0.00	9	0	0.00	3	0	0.00						
		Drinking Water	2.	12	0	0.00	9	0	0.00	3	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	623	2	0.00	288	1	0.00	335	1	0.00						
		Drinking Water	2.	623	4	0.01	288	2	0.01	335	2	0.01						
80020	URANIUM, DISS. BY EXTRACTION FLUOROMETRI	Drinking Water	20.	18	0	0.00	11	0	0.00	7	0	0.00						
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	21	0	0.00	3	0	0.00	18	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	120	0	0.00	53	0	0.00	67	0	0.00						
82295	CHLORIDE DISSOLVED AS CL IN WATER	Fresh Acute	860000.	78	0	0.00	46	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

NPS Servicewide Inventory and Monitoring Program Level I

Water Quality Parameter Inventory Data Evaluation and Analysis:

Missing Level I Groups

There are STORET Data for Every Level I I&M Parameter Group Within the GRSM Study Area

NPS Servicewide Inventory and Monitoring Program Level I

Water Quality Parameter Inventory Data Evaluation and Analysis:

Present Level I Groups

STORET Data Within the GRSM Study Area Exist for These Groups:

Alkalinity		Total Obs.	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYSIS (UEQ/L)	50	44	6	0	22
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	2282	322	1180	780	125
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	1144	4	741	399	64
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	7	0	7	0	4
00435	ACIDITY, TOTAL (MG/L AS CACO3)	31	10	13	8	24
00440	BICARBONATE ION (MG/L AS HCO3)	363	48	63	252	39
00445	CARBONATE ION (MG/L AS CO3)	146	0	50	96	20
		4023	428	2060	1535	298(148)[!]

pH		Total Obs.	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00400	PH (STANDARD UNITS)	5598	1946	2725	927	140
00403	PH, LAB (STANDARD UNITS)	1017	420	582	15	103
		6615	2366	3307	942	243(207)[!]

Conductivity		Total Obs.	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	2436	1830	506	100	54
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	2957	291	2060	606	137
00480	SALINITY - PARTS PER THOUSAND	2	2	0	0	1
		5395	2123	2566	706	192(166)[!]

Dissolved Oxygen		Total Obs.	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	44	44	0	0	16
00300	OXYGEN, DISSOLVED (MG/L)	8459	2327	3684	2448	134
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	600	27	378	195	23
		9103	2398	4062	2643	173(150)[!]

Water Temperature		Total Obs.	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	9191	2408	4193	2590	171
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	3	3	0	0	2
		9194	2411	4193	2590	173(171)[!]

Flow		Total Obs.	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00059	FLOW RATE, INSTANTANEOUS, GALLONS/MINUTE	3	0	3	0	3
00060	FLOW, STREAM, MEAN DAILY CFS	388	7	23	358	26
00061	FLOW, STREAM, INSTANTANEOUS CFS	3915	588	2368	959	43
00065	STAGE, STREAM (FEET)	1031	245	696	90	13
		5337	840	3090	1407	85 (68)[!]

[!]Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

Clarity/Turbidity		Total Obs.	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00070	TURBIDITY, (JACKSON CANDLE UNITS)	430	1	241	188	29
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	903	337	453	113	35
00077	TRANSPARENCY, SECCHI DISC (INCHES)	39	6	8	25	15
00078	TRANSPARENCY, SECCHI DISC (METERS)	189	66	115	8	27
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	1366	442	757	167	85
82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS NTU	21	21	0	0	3
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	120	114	6	0	33
		3068	987	1580	501	227(129)[1]

Nitrate/Nitrogen		Total Obs.	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00600	NITROGEN, TOTAL (MG/L AS N)	69	0	45	24	15
00602	NITROGEN, DISSOLVED (MG/L AS N)	12	0	12	0	1
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	455	19	283	153	27
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	41	0	32	9	3
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	138	72	44	22	6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	1787	420	944	423	126
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	44	23	1	20	28
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	201	0	19	182	23
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	45	2	33	10	3
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	1101	290	513	298	65
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	1594	387	850	357	107
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	134	72	52	10	4
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	116	0	116	0	22
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	128	38	78	12	6
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	218	0	113	105	24
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	260	78	51	131	45
		6343	1401	3186	1756	505(200)[1]

Phosphate/Phosphorus		Total Obs.	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	137	0	114	23	25
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	113	0	61	52	34
00665	PHOSPHORUS, TOTAL (MG/L AS P)	1815	477	855	483	136
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	245	72	91	82	22
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	429	111	49	269	46
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	504	128	367	9	41
		3243	788	1537	918	304(188)[1]

Chlorophyll		Total Obs.	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
32209	CHLOROPHYLL A (UG/L) FLUOROMETRIC CORRECTED	37	29	8	0	14
32210	CHLOROPHYLL A (UG/L) TRICHROMATIC UNCORRECTED	17	0	17	0	7
32211	CHLOROPHYLL A (UG/L) SPECTROPHOTOMETRIC ACID METH.	89	46	28	15	16
32217	CHLOROPHYLL A (UG/L) FLUOROMETRIC UNCORRECTED	58	26	8	24	21
32228	CHLOROPHYLL A (MG/M2) PERIPHYTON SPECTRO.	12	0	12	0	4
		213	101	73	39	62 (37)[1]

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Sulfates/Total Dissolved Solids/Hardness		Total Obs.	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00900	HARDNESS, TOTAL (MG/L AS CACO3)	726	322	146	258	42
00945	SULFATE, TOTAL (MG/L AS SO4)	976	137	433	406	95
00946	SULFATE, DISSOLVED (MG/L AS SO4)	124	80	44	0	21
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	856	70	424	362	74
		2682	609	1047	1026	232(147)[1]

Bacteria		Total Obs.	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
31501	COLIFORM, TOT, MEMBRANE FILTER,IMMED.M-ENDOMED,35C	254	0	94	160	22
31503	COLIFORM, TOT, MEMBRANE FILTER,DELAY,M-ENDOMED,35C	6	0	0	6	1
31504	COLIFORM, TOT, MEMBRANE FILTER, IMME,L-ENDAGAR,35C	21	1	12	8	4
31505	COLIFORM, TOT, MPN, CONFIRMED TEST,35C(TUBE 31506)	43	0	2	41	7
31508	COLIFORM, TOT, MPN, COMPLETED TEST, TUBE CONFIG.	90	0	17	73	13
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	40	0	0	40	6
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C	1494	263	875	356	50
31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	113	67	46	0	3
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	170	99	70	1	4
		2231	430	1116	685	110 (55)[1]

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Toxic Elements		Total Obs.	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
01097	ANTIMONY, TOTAL (UG/L AS SB)	2	0	2	0	2
01000	ARSENIC, DISSOLVED (UG/L AS AS)	99	37	26	36	17
01001	ARSENIC, SUSPENDED (UG/L AS AS)	17	0	7	10	1
01002	ARSENIC, TOTAL (UG/L AS AS)	520	237	254	29	25
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	47	37	10	0	2
01012	BERYLLIUM, TOTAL (UG/L AS BE)	21	2	15	4	8
01025	CADMIUM, DISSOLVED (UG/L AS CD)	63	37	11	15	5
01026	CADMIUM, SUSPENDED (UG/L AS CD)	15	0	5	10	1
01027	CADMIUM, TOTAL (UG/L AS CD)	596	244	329	23	41
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	124	37	46	41	18
01031	CHROMIUM, SUSPENDED (UG/L AS CR)	33	0	23	10	2
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	5	0	4	1	5
01034	CHROMIUM, TOTAL (UG/L AS CR)	525	199	295	31	39
01040	COPPER, DISSOLVED (UG/L AS CU)	131	37	47	47	19
01041	COPPER, SUSPENDED (UG/L AS CU)	31	0	21	10	2
01042	COPPER, TOTAL (UG/L AS CU)	677	244	380	53	66
01049	LEAD, DISSOLVED (UG/L AS PB)	84	37	30	17	5
01050	LEAD, SUSPENDED (UG/L AS PB)	32	0	22	10	2
01051	LEAD, TOTAL (UG/L AS PB)	616	243	343	30	42
71890	MERCURY, DISSOLVED (UG/L AS HG)	56	35	10	11	4
71895	MERCURY, SUSPENDED (UG/L AS HG)	12	0	2	10	1
71900	MERCURY, TOTAL (UG/L AS HG)	623	240	335	48	65
01065	NICKEL, DISSOLVED (UG/L AS NI)	69	57	5	7	5
01067	NICKEL, TOTAL (UG/L AS NI)	392	198	177	17	55
01145	SELENIUM, DISSOLVED (UG/L AS SE)	67	57	10	0	2
01146	SELENIUM, SUSPENDED (UG/L AS SE)	5	0	5	0	1
01147	SELENIUM, TOTAL (UG/L AS SE)	27	2	22	3	10
01075	SILVER, DISSOLVED (UG/L AS AG)	111	57	27	27	15
01076	SILVER, SUSPENDED (UG/L AS AG)	5	0	5	0	1
01077	SILVER, TOTAL (UG/L AS AG)	40	2	33	5	12
01090	ZINC, DISSOLVED (UG/L AS ZN)	112	37	32	43	9
01091	ZINC, SUSPENDED (UG/L ZN)	30	0	20	10	2
01092	ZINC, TOTAL (UG/L AS ZN)	719	243	426	50	68
00720	CYANIDE, TOTAL (MG/L AS CN)	34	0	24	10	15
34210	ACROLEIN, TOTAL (UG/L)	1	0	1	0	1
34215	ACRYLONITRILE, TOTAL (UG/L)	1	0	1	0	1
34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	1	0	1	0	1
32104	BROMOFORM, WHOLE WATER, (UG/L)	1	0	1	0	1
32102	CARBON TETRACHLORIDE, WHOLE WATER, (UG/L)	1	0	1	0	1
34301	CHLOROBENZENE, TOTAL (UG/L)	1	0	1	0	1
34306	CHLORODIBROMOMETHANE, TOTAL (UG/L)	1	0	1	0	1
34311	CHLOROETHANE, TOTAL (UG/L)	1	0	1	0	1
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (UG/L)	1	0	1	0	1
32106	CHLOROFORM, WHOLE WATER (UG/L)	2	0	2	0	2
32101	BROMODICHLOROMETHANE, WHOLE WATER (UG/L)	1	0	1	0	1
34496	1,1-DICHLOROETHANE, TOTAL (UG/L)	1	0	1	0	1
32103	1,2-DICHLOROETHANE, WHOLE WATER (UG/L)	1	0	1	0	1
34501	1,1-DICHLOROETHYLENE, TOTAL (UG/L)	1	0	1	0	1
34541	1,2-DICHLOROPROPANE, TOTAL (UG/L)	1	0	1	0	1
34561	1,3-DICHLOROPROPENE, TOTAL (UG/L)	1	0	1	0	1
34371	ETHYLBENZENE, TOTAL (UG/L)	1	0	1	0	1
34413	METHYL BROMIDE, TOTAL (UG/L)	1	0	1	0	1
34418	METHYL CHLORIDE, TOTAL (UG/L)	1	0	1	0	1
34423	METHYLENE CHLORIDE, TOTAL (UG/L)	1	0	1	0	1
34506	1,1,1-TRICHLOROETHANE, TOTAL (UG/L)	1	0	1	0	1

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Toxic Elements - Continued ...		Total Obs.	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
34475	TETRACHLOROETHYLENE, TOTAL (UG/L)	1	0	1	0	1
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	1	0	1	0	1
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER (UG/L)	1	0	1	0	1
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (UG/L)	1	0	1	0	1
34511	1,1,2-TRICHLOROETHANE, TOTAL (UG/L)	1	0	1	0	1
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1
34586	2-CHLOROPHENOL, TOTAL (UG/L)	1	0	1	0	1
34601	2,4-DICHLOROPHENOL, TOTAL (UG/L)	1	0	1	0	1
34606	2,4-DIMETHYLPHENOL, TOTAL (UG/L)	1	0	1	0	1
34657	DNOC (4,6-DINITRO-ORTHO-CRESOL), TOTAL (UG/L)	1	0	1	0	1
34616	2,4-DINITROPHENOL, TOTAL (UG/L)	1	0	1	0	1
34591	2-NITROPHENOL, TOTAL (UG/L)	1	0	1	0	1
34646	4-NITROPHENOL, TOTAL (UG/L)	1	0	1	0	1
34452	PARACHLOROMETA CRESOL, TOTAL (UG/L)	1	0	1	0	1
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1
34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTAL (UG/L)	1	0	1	0	1
34621	2,4,6-TRICHLOROPHENOL, TOTAL (UG/L)	1	0	1	0	1
34205	ACENAPHTHENE, TOTAL (UG/L)	1	0	1	0	1
34200	ACENAPHTHYLENE, TOTAL (UG/L)	1	0	1	0	1
34220	ANTHRACENE, TOTAL (UG/L)	1	0	1	0	1
39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1
34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, TOTAL (UG/L)	1	0	1	0	1
34247	BENZO-A-PYRENE, TOTAL (UG/L)	1	0	1	0	1
34230	BENZO(B)FLUORANTHENE, WHOLE WATER (UG/L)	1	0	1	0	1
34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, TOTAL (UG/L)	1	0	1	0	1
34242	BENZO(K)FLUORANTHENE, TOTAL (UG/L)	1	0	1	0	1
34278	BIS (2-CHLOROETHOXY) METHANE, TOTAL (UG/L)	1	0	1	0	1
34273	BIS (2-CHLOROETHYL) ETHER, TOTAL (UG/L)	1	0	1	0	1
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER (UG/L)	1	0	1	0	1
34636	4-BROMOPHENYL PHENYL ETHER, TOTAL (UG/L)	1	0	1	0	1
34292	N-BUTYL BENZYL PHTHALATE, WHOLE WATER (UG/L)	1	0	1	0	1
34581	2-CHLORONAPHTHALENE, TOTAL (UG/L)	1	0	1	0	1
34641	4-CHLOROPHENYL PHENYL ETHER, TOTAL (UG/L)	1	0	1	0	1
34320	CHRYSENE, TOTAL (UG/L)	1	0	1	0	1
34556	1,2,5,6-DIBENZANTHRACENE, TOTAL (UG/L)	1	0	1	0	1
34536	1,2-DICHLOROBENZENE, TOTAL (UG/L)	1	0	1	0	1
34566	1,3-DICHLOROBENZENE, TOTAL (UG/L)	1	0	1	0	1
34571	1,4-DICHLOROBENZENE, TOTAL (UG/L)	1	0	1	0	1
34631	3,3'-DICHLOROBENZIDINE, TOTAL (UG/L)	1	0	1	0	1
34336	DIETHYL PHTHALATE, TOTAL (UG/L)	1	0	1	0	1
34341	DIMETHYL PHTHALATE, TOTAL (UG/L)	1	0	1	0	1
39110	DI-N-BUTYL PHTHALATE, WHOLE WATER (UG/L)	1	0	1	0	1
34611	2,4-DINITROTOLUENE, TOTAL (UG/L)	1	0	1	0	1
34626	2,6-DINITROTOLUENE, TOTAL (UG/L)	1	0	1	0	1
34596	DI-N-OCTYL PHTHALATE, TOTAL (UG/L)	1	0	1	0	1
34346	1,2-DIPHENYLHYDRAZINE, TOTAL (UG/L)	1	0	1	0	1
34376	FLUORANTHENE, TOTAL (UG/L)	1	0	1	0	1
34381	FLUORENE, TOTAL (UG/L)	1	0	1	0	1
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1
39702	HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL (UG/L)	1	0	1	0	1
34396	HEXACHLOROETHANE, TOTAL (UG/L)	1	0	1	0	1
34403	INDENO (1,2,3-CD) PYRENE, TOTAL (UG/L)	1	0	1	0	1
34696	NAPHTHALENE, TOTAL (UG/L)	1	0	1	0	1

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Toxic Elements - Continued ...		Total Obs.	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
34447	NITROBENZENE, TOTAL (UG/L)	1	0	1	0	1
34428	N-NITROSODI-N-PROPYLAMINE, TOTAL (UG/L)	1	0	1	0	1
34433	N-NITROSODIPHENYLAMINE, TOTAL (UG/L)	1	0	1	0	1
34461	PHENANTHRENE, TOTAL (UG/L)	1	0	1	0	1
34469	PYRENE, TOTAL (UG/L)	1	0	1	0	1
34551	1,2,4-TRICHLOROBENZENE, TOTAL (UG/L)	1	0	1	0	1
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	14	0	8	6	2
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	1	0	1	0	1
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	1	0	1	0	1
39340	GAMMA-BHC(LINDANE), WHOLE WATER (UG/L)	12	0	8	4	2
34259	DELTA BENZENE HEXACHLORIDE, TOTAL (UG/L)	1	0	1	0	1
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATER (UG/L)	11	0	8	3	2
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	13	0	7	6	1
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	13	0	7	6	1
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	13	0	7	6	1
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	14	0	8	6	2
34361	ENDOSULFAN, ALPHA, TOTAL (UG/L)	1	0	1	0	1
34356	ENDOSULFAN, BETA, TOTAL (UG/L)	1	0	1	0	1
34351	ENDOSULFAN SULFATE, TOTAL (UG/L)	1	0	1	0	1
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	14	0	8	6	2
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	14	0	8	6	2
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	13	0	8	5	2
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE (UG/L)	2	0	1	1	2
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1
34671	PCB - 1016, TOTAL (UG/L)	1	0	1	0	1
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	8	0	8	0	2
		6179	2319	3187	673	686 (78)[1]

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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	4023	428	10.6	148	58.7	27.2	10/19/56-06/29/94	106.7
pH	6615	2366	35.8	207	82.1	32.0	10/19/56-01/09/95	173.1
Conductivity	5395	2123	39.4	166	65.9	32.5	10/19/56-01/09/95	141.1
Dissolved Oxygen	9103	2398	26.3	150	59.5	60.7	10/02/61-01/09/95	273.6
Water Temperature	9194	2411	26.2	171	67.9	53.8	10/02/61-01/09/95	276.3
Flow	5337	840	15.7	68	27.0	78.5	08/02/46-11/22/94	110.5
Clarity/Turbidity	3068	987	32.2	129	51.2	23.8	06/18/64-01/09/95	100.4
Nitrate/Nitrogen	6343	1401	22.1	200	79.4	31.7	10/19/56-12/05/94	166.4
Phosphate/Phosphorus	3243	788	24.3	188	74.6	17.3	05/03/66-12/05/94	113.4
Chlorophyll	213	101	47.4	37	14.7	5.8	03/24/73-10/20/94	9.9
Sulfates/Total Dissolved Solids/Hardness	2682	609	22.7	147	58.3	18.2	10/19/56-01/09/95	70.2
Bacteria	2231	430	19.3	55	21.8	40.6	01/07/65-01/09/95	74.3
Toxic Elements	6179	2319	37.5	78	31.0	79.2	01/30/67-12/05/94	221.9

Water Quality Observations
Outside STORET Edit Criteria for GRSM

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
GRSM0007	01049	LEAD, DISSOLVED (UG/L AS PB)	740716	1300	7104.0000000	21NC01WQ	G3840000	x
GRSM0007	01049	LEAD, DISSOLVED (UG/L AS PB)	750729	1020	8865.0000000	21NC01WQ	G3840000	x
GRSM0009	00045	PRECIPITATION, TOTAL (INCHES PER DAY)	910710	1450	270.0000000	21NC01WQ	G8600000	x
GRSM0011	00927	MAGNESIUM, TOTAL (MG/L AS MG)	690514	1410	1100.0000000	21NC01WQ	G9200000	x
GRSM0011	00927	MAGNESIUM, TOTAL (MG/L AS MG)	710428	1640	1520.0000000	21NC01WQ	G9200000	x
GRSM0011	00927	MAGNESIUM, TOTAL (MG/L AS MG)	710728	1020	2000.0000000	21NC01WQ	G9200000	x
GRSM0011	00927	MAGNESIUM, TOTAL (MG/L AS MG)	710824	1045	1230.0000000	21NC01WQ	G9200000	x
GRSM0011	01067	NICKEL, TOTAL (UG/L AS NI)	680729	1445	16200.0000000	21NC01WQ	G9200000	x
GRSM0011	01067	NICKEL, TOTAL (UG/L AS NI)	681015	1600	37300.0000000	21NC01WQ	G9200000	x
GRSM0011	01067	NICKEL, TOTAL (UG/L AS NI)	690514	1410	10700.0000000	21NC01WQ	G9200000	x
GRSM0011	01067	NICKEL, TOTAL (UG/L AS NI)	700804	1250	14200.0000000	21NC01WQ	G9200000	x
GRSM0011	01067	NICKEL, TOTAL (UG/L AS NI)	701208	1530	7650.0000000	21NC01WQ	G9200000	x
GRSM0013	01049	LEAD, DISSOLVED (UG/L AS PB)	740716	1320	7106.0000000	21NC01WQ	G9220000	x
GRSM0013	01049	LEAD, DISSOLVED (UG/L AS PB)	750709		8049.0000000	21NC01WQ	G9220000	x
GRSM0013	01049	LEAD, DISSOLVED (UG/L AS PB)	750716	1400	8328.0000000	21NC01WQ	G9220000	x
GRSM0013	01049	LEAD, DISSOLVED (UG/L AS PB)	750729	1100	8867.0000000	21NC01WQ	G9220000	x
GRSM0013	01049	LEAD, DISSOLVED (UG/L AS PB)	750729	1110	8868.0000000	21NC01WQ	G9220000	x
GRSM0013	01049	LEAD, DISSOLVED (UG/L AS PB)	750729	1130	8869.0000000	21NC01WQ	G9220000	x
GRSM0013	01049	LEAD, DISSOLVED (UG/L AS PB)	750730	1335	9024.0000000	21NC01WQ	G9220000	x
GRSM0013	01049	LEAD, DISSOLVED (UG/L AS PB)	750731	0835	9134.0000000	21NC01WQ	G9220000	x
GRSM0013	01075	SILVER, DISSOLVED (UG/L AS AG)	750731	0835	7600.0000000	21NC01WQ	G9220000	x
GRSM0016	01049	LEAD, DISSOLVED (UG/L AS PB)	740716	1345	7107.0000000	21NC01WQ	G9240000	x
GRSM0016	01049	LEAD, DISSOLVED (UG/L AS PB)	750729	1155	8920.0000000	21NC01WQ	G9240000	x
GRSM0022	01049	LEAD, DISSOLVED (UG/L AS PB)	740716	1400	7108.0000000	21NC01WQ	G9260000	x
GRSM0022	01049	LEAD, DISSOLVED (UG/L AS PB)	750729	1230	8872.0000000	21NC01WQ	G9260000	x
GRSM0024	01049	LEAD, DISSOLVED (UG/L AS PB)	740716	1330	7105.0000000	21NC01WQ	G9210000	x
GRSM0024	01049	LEAD, DISSOLVED (UG/L AS PB)	750709		8048.0000000	21NC01WQ	G9210000	x
GRSM0024	01049	LEAD, DISSOLVED (UG/L AS PB)	750716	1315	8327.0000000	21NC01WQ	G9210000	x
GRSM0024	01049	LEAD, DISSOLVED (UG/L AS PB)	750729	1045	8866.0000000	21NC01WQ	G9210000	x
GRSM0024	01049	LEAD, DISSOLVED (UG/L AS PB)	750730	1315	9023.0000000	21NC01WQ	G9210000	x
GRSM0024	01049	LEAD, DISSOLVED (UG/L AS PB)	750731	0815	9133.0000000	21NC01WQ	G9210000	x
GRSM0024	01075	SILVER, DISSOLVED (UG/L AS AG)	750731	0815	7200.0000000	21NC01WQ	G9210000	x
GRSM0027	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	870805	1250	0.0000000	21NC01WQ	G9280000	x
GRSM0027	01049	LEAD, DISSOLVED (UG/L AS PB)	740716	1430	7109.0000000	21NC01WQ	G9280000	x
GRSM0027	01049	LEAD, DISSOLVED (UG/L AS PB)	750729	1310	8875.0000000	21NC01WQ	G9280000	x
GRSM0037	00927	MAGNESIUM, TOTAL (MG/L AS MG)	680620	1600	4411.0000000	21NC01WQ	G9300000	x
GRSM0037	00927	MAGNESIUM, TOTAL (MG/L AS MG)	680814	1545	6960.0000000	21NC01WQ	G9300000	x
GRSM0037	00927	MAGNESIUM, TOTAL (MG/L AS MG)	690515	1340	3370.0000000	21NC01WQ	G9300000	x
GRSM0037	00927	MAGNESIUM, TOTAL (MG/L AS MG)	691015	1510	4933.0000000	21NC01WQ	G9300000	x
GRSM0037	00927	MAGNESIUM, TOTAL (MG/L AS MG)	700617	1600	5044.0000000	21NC01WQ	G9300000	x
GRSM0037	00927	MAGNESIUM, TOTAL (MG/L AS MG)	700804	1435	7700.0000000	21NC01WQ	G9300000	x

Water Quality Observations
Outside STORET Edit Criteria for GRSM

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
GRSM0037	00927	MAGNESIUM, TOTAL (MG/L AS MG)	710428	1000	1500.0000000	21NC01WQ	G9300000	x
GRSM0037	00927	MAGNESIUM, TOTAL (MG/L AS MG)	710728	1545	6500.0000000	21NC01WQ	G9300000	x
GRSM0037	00927	MAGNESIUM, TOTAL (MG/L AS MG)	710824	1600	5656.0000000	21NC01WQ	G9300000	x
GRSM0037	01049	LEAD, DISSOLVED (UG/L AS PB)	730625	1445	4159.0000000	21NC01WQ	G9300000	x
GRSM0055	00916	CALCIUM, TOTAL (MG/L AS CA)	771206		1270.0000000	21NC01WQ	G9900000	x
GRSM0055	00927	MAGNESIUM, TOTAL (MG/L AS MG)	680620	1440	4787.0000000	21NC01WQ	G9900000	x
GRSM0055	00927	MAGNESIUM, TOTAL (MG/L AS MG)	680814	1500	7929.0000000	21NC01WQ	G9900000	x
GRSM0055	00927	MAGNESIUM, TOTAL (MG/L AS MG)	690515	1235	5835.0000000	21NC01WQ	G9900000	x
GRSM0055	00927	MAGNESIUM, TOTAL (MG/L AS MG)	691015	1345	5897.0000000	21NC01WQ	G9900000	x
GRSM0055	00927	MAGNESIUM, TOTAL (MG/L AS MG)	700617	1435	8130.0000000	21NC01WQ	G9900000	x
GRSM0055	00927	MAGNESIUM, TOTAL (MG/L AS MG)	700804	1550	8130.0000000	21NC01WQ	G9900000	x
GRSM0055	00927	MAGNESIUM, TOTAL (MG/L AS MG)	710428	1100	3635.0000000	21NC01WQ	G9900000	x
GRSM0055	00927	MAGNESIUM, TOTAL (MG/L AS MG)	710728	1445	7049.0000000	21NC01WQ	G9900000	x
GRSM0055	00927	MAGNESIUM, TOTAL (MG/L AS MG)	710824	1500	6561.0000000	21NC01WQ	G9900000	x
GRSM0055	01049	LEAD, DISSOLVED (UG/L AS PB)	730625	1400	4164.0000000	21NC01WQ	G9900000	x
GRSM0059	00927	MAGNESIUM, TOTAL (MG/L AS MG)	680814	1520	7929.0000000	21NC01WQ	G9990000	x
GRSM0059	00927	MAGNESIUM, TOTAL (MG/L AS MG)	691015	1410	5897.0000000	21NC01WQ	G9990000	x
GRSM0059	00927	MAGNESIUM, TOTAL (MG/L AS MG)	710428	1100	3635.0000000	21NC01WQ	G9990000	x
GRSM0059	00927	MAGNESIUM, TOTAL (MG/L AS MG)	710728	1580	7049.0000000	21NC01WQ	G9990000	x
GRSM0059	00927	MAGNESIUM, TOTAL (MG/L AS MG)	710824	1520	6561.0000000	21NC01WQ	G9990000	x
GRSM0059	01049	LEAD, DISSOLVED (UG/L AS PB)	730625	1420	4165.0000000	21NC01WQ	G9990000	x
GRSM0063	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	870805	1340	0.0000000	21NC01WQ	G9291000	x
GRSM0063	01049	LEAD, DISSOLVED (UG/L AS PB)	740716	1500	7110.0000000	21NC01WQ	G9291000	x
GRSM0063	01049	LEAD, DISSOLVED (UG/L AS PB)	750729	1335	8878.0000000	21NC01WQ	G9291000	x
GRSM0063	01049	LEAD, DISSOLVED (UG/L AS PB)	750729	1345	8879.0000000	21NC01WQ	G9291000	x
GRSM0070	01049	LEAD, DISSOLVED (UG/L AS PB)	730621	1500	4064.0000000	21NC01WQ	G8500000	x
GRSM0070	01049	LEAD, DISSOLVED (UG/L AS PB)	740916	1120	9965.0000000	21NC01WQ	G8500000	x
GRSM0070	01049	LEAD, DISSOLVED (UG/L AS PB)	750129	1445	1210.0000000	21NC01WQ	G8500000	x
GRSM0070	01067	NICKEL, TOTAL (UG/L AS NI)	700618	1100	2520.0000000	21NC01WQ	G8500000	x
GRSM0073	01049	LEAD, DISSOLVED (UG/L AS PB)	730621	1430	4063.0000000	21NC01WQ	G8200000	x
GRSM0073	01049	LEAD, DISSOLVED (UG/L AS PB)	740916	1100	9964.0000000	21NC01WQ	G8200000	x
GRSM0073	01049	LEAD, DISSOLVED (UG/L AS PB)	750129	1410	1209.0000000	21NC01WQ	G8200000	x
GRSM0073	01067	NICKEL, TOTAL (UG/L AS NI)	700618	1040	2130.0000000	21NC01WQ	G8200000	x
GRSM0127	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	940503	1707	0.0000000	131TVAC	477634	x
GRSM0185	00032	CLOUD COVER (PERCENT)	920520	1400	120.0000000	21NC01WQ	E6450000	x
GRSM0185	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	770718	0945	0.0000000	21NC01WQ	E6450000	x
GRSM0202	00951	FLUORIDE, TOTAL (MG/L AS F)	680729	1740	90.0000000	131TVAC	475463	x
GRSM0244	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	680313	1040	676.0000000	21TNWQ	002070	x

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) GRSMTABS.ZIP

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

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

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

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

(d) GRSMOV0.DOC - Overview of park and retrieved data.

(e) GRSMOV1.DOC - Station period of record table.

(f) GRSMOV2.DOC - Parameter period of record table.

(g) GRSMOV3.DOC - Station/parameter period of record table.

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

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

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

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

(l) GRSMBAD.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 GRSMOV1.DOC is in the subdirectory C:\WATER, you could type: PRINT C:\WATER\GRSMOV1.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) GRSMFIGS.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 GRSM0001. 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 GRSM0001) 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) GRSMPARM.ZIP

This file compresses GRSMPARM.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) GRSMSITE.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) GRSMWQ.DBF - All water quality monitoring station locations within the project's study area downloaded from STORET.

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

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

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

(e) GRSMDAMS.DBF - All water impoundments within the project's study area downloaded from the DAMS database. (Not implemented in GRSM report.)

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) GRSMMISC.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) GRSMEXEC.DOC - WordPerfect Ver. 5.1 copy of the Executive Summary in the report.

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

(f) GRSMWQ - 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 (GRSMWQA, GRSMWQB, GRSMWQC, etc.) and the index map name will end with an ampersand (&).

(g) GRSMIDG - 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 (GRSMIDGA, GRSMIDGB, GRSMIDGC, 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) GRSMSEHY - 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 GRSMFIGS.ZIP and GRSMTABS.ZIP, you can use the PRINTZIP program to print any of the PCL files in GRSMMISC.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) GRSMRF3.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) GRSMWQMW.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: GRSMPARM.DBF in GRSMPARM.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: GRSMPARM.DBF in GRSMPARM.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: GRSMPARM.DBF in GRSMPARM.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: GRSMWQ.DBF in GRSMSITE.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: GRSMWQ.DBF in GRSMSITE.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: GRSMIFD.DBF in GRSMSITE.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: GRSMIFD.DBF in GRSMSITE.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: GRSMIFD.DBF in GRSMSITE.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: GRSMDRIN.DBF in GRSMSITE.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: GRSMDRIN.DBF in GRSMSITE.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: GRSMDRIN.DBF in GRSMSITE.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: GRSMGAGE.DBF in GRSMSITE.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: GRSMGAGE.DBF in GRSMSITE.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: GRSMDAMS.DBF in GRSMSITE.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: GRSMDAMS.DBF in GRSMSITE.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: GRSMDAMS.DBF in GRSMSITE.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: GRSMDAMS.DBF in GRSMSITE.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 GRSMRF3.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 GRSMRF3.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 GRSMRF3.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 GRSMRF3.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 GRSMRF3.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 GRSMRF3.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

Literature Cited

Code of Federal Regulations. 1994. Protection of Environment. 40 CFR Parts 100 to 149. Revised as of July 1, 1994. Published by the Office of the Federal Register, National Archives and Records Administration. U.S. Government Printing Office, Washington, D.C. 20402.

Gilbert, R. O. 1987. Statistical Methods for Environmental Pollution Monitoring. Van Nostrand Reinhold Co., New York, NY. 320p.

GKY and Associates. 1990. Dam Inventory Database and Retrieval Software: Final Report. U.S. Environmental Protection Agency, Water Quality Analysis Branch. Under Contract #68-03-3339.

Kunkle, S. and J. Wilson. 1984. Specific Conductance and pH Measurements in Surface Waters: An Introduction for Park Natural Resource Specialists. Water Resources Field Support Laboratory Report No. 84-3. National Park Service, Water Resources Division, Fort Collins, Colorado 80525. 51p.

National Park Service. 1993. Strategic Plan for Conducting Baseline Natural Resource Inventories in the National Park Service. National Park Service, Washington Office, Servicewide Inventory and Monitoring Program, Washington, D.C. Unpublished. 17p.

U.S. Environmental Protection Agency. 1995. Quality Criteria for Water 1995. Final Draft. Office of Water Regulations and Standards, Washington, D.C.

U.S. Environmental Protection Agency. 1989. STORET User Handbook. U.S. Environmental Proteciton Agency, Office of Water, Washington, D.C. 20460.

U.S. Environmental Protection Agency. 1992. Office of Water Environmental and Program Information Systems Compendium. U.S. Environmental Protection Agency, Office of Water, Washington, D.C. 20460. 152p.

U.S. Environmental Protection Agency. 1993. Technical Description of the Reach File. U.S. Environmental Protection Agency, Office of Water, Washington, D.C. 20460. 23p.

U.S. Geological Survey. 1982. A U.S. Geological Survey Data Standard: Codes for the Identification of Hydrologic Units in the United States and Caribbean Outlying Areas. Geological Survey Circular 878-A. U.S. Geological Survey, Water Resources Division, Reston, VA. 22092. 115p.

U.S. Geological Survey 1992. Hydro-Climatic Data Network: A U.S. Geological Survey Streamflow Data Set for the United States for the Study of Climate Variations 1874-1988. Open File Report 92-129/USGS Water Supply Paper No. 2406. U.S. Geological Survey, Water Resources Division, Reston, VA. 22092. 193p.

Ward, R. C., J. C. Loftis, and G. B. McBride. 1990. Design of Water Quality Monitoring Systems. Van Nostrand Reinhold Co., New York, NY. 231p.

Appendix I

Selected General Water Quality References

American Public Health Association. 1989. Standard Methods for the Examination of Water and Wastewater (17th ed.). Washington, D.C. 1476p.

Drever, J. I. 1982. The Geochemistry of Natural Waters. Prentice-Hall, Inc., Englewood Cliffs, NJ. 388p.

Dunne, T. and L. B. Leopold. 1978. Water in Environmental Planning. W.H. Freeman and Company, San Francisco, CA. 818p.

Everett, L. G. 1980. Groundwater Monitoring. General Electric Co., Schenectady, NY. 440p.

Fetter, C. W. 1988. Applied Hydrogeology (2nd ed.). MacMillan Publishing Co., New York, NY. 592p.

Flora, M. D., T. E. Ricketts, J. Wilson, and S. Kunkle. 1984. Water Quality Criteria: An Overview for Park Natural Resource Specialists. WRFSL Report No. 84-4. National Park Service, Water Resources Field Support Laboratory, Fort Collins, CO. 46p.

Gilbert, R. O. 1987. Statistical Methods for Environmental Pollution Monitoring. Van Nostrand Reinhold Co., New York, NY. 320p.

Hem, J. D. 1985. Study and Interpretation of the Chemical Characteristics of Natural Water (3rd ed.). U.S. Geological Survey Water-Supply Paper 2254. U.S. Government Printing Office, Washington, D.C. 263p.

Kunkle, S., W. S. Johnson, and M. Flora. 1987. Monitoring Stream Water Quality for Land-Use Impacts: A Training Manual for Natural Resource Management Specialists. Water Resources Division, National Park Service, Fort Collins, CO. 102p.

Kunkle, S. and J. Wilson. 1984. Specific Conductance and pH Measurements in Surface Waters: An Introduction for Park Natural Resource Specialists. Water Resources Field Support Laboratory Report No. 84-3. National Park Service, Water Resources Division, Fort Collins, Colorado 80525. 51p.

Merritt, R. W., and K. W. Cummins (eds.). 1984. An Introduction to the Aquatic Insects of North America (2nd ed.). Kendall/Hunt Publishing Co., Dubuque, IA. 44p.

Morel, F. M. 1983. Principles of Aquatic Chemistry. John Wiley & Sons, Inc., New York, NY. 446p.

Nielsen, D. M. (ed.). 1991. Practical Handbook of Ground-Water Monitoring. Lewis Publishers, Inc. Chelsea, MI. 717p.

Ponce, S. L. 1980a. Statistical Methods Commonly Used in Water Quality Data Analysis. WSDG Technical Paper WSDG-TP-00001. U.S. Department of Agriculture, Forest Service, Watershed Systems Development Group, Fort Collins, CO. 136p.

Ponce, S. L. 1980b. Water Quality Monitoring Programs. WSDG Technical Paper WSDG-TP-00002. U.S. Department of Agriculture, Forest Service, Watershed Systems Development Group, Fort Collins, CO. 68p.

Rand, G. M. and S. R. Petrocelli (eds.). 1985. Fundamentals of Aquatic Toxicology. Hemisphere Publishing Co., New York, NY. 666p.

Rantz, S. E. and others. 1982. Measurement and Computation of Streamflow: Volume 1. Measurement of Stage and Discharge. Volume 2. Computation of Discharge. U.S. Department of the Interior, Geological Survey Water Supply Paper 2175. 631p.

Stednick, J.D. and D. M. Gilbert. 1998. Water Quality Inventory Protocol: Riverine Environments. National Park Service, Water Resources Division Technical Report NPS/NRWRD/NRTR-98/177. Fort Collins, CO. 103p.

Stednick, J. D. 1991. Wildland Water Quality Sampling and Analysis. Academic Press, Inc., San Diego, CA. 217p.

United Nations Educational, Scientific and Cultural Organization (UNESCO). 1978. Water Quality Surveys: A Guide for the Collection and Interpretation of Water Quality Data. IHD-WHO Working Group on the Quality of Water, Paris, France. 350p.

U.S. Department of the Interior. 1977. National Handbook of Recommended Methods for Water-Data Acquisition. U.S. Geological Survey, Office of Water-Data Coordination, Reston, VA. 990p.

U.S. Environmental Protection Agency. 1978. Microbiological Methods for Monitoring the Environment: Water and Wastes. R. H. Border, J. A. Winter, and P. W. Scarpino. EPA-600/8-78-017. Office of Research and Development, Environmental Monitoring Systems Laboratory, Cincinnati, OH. 338p.

U.S. Environmental Protection Agency. 1979b. Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-020. (Revised March 1983). Office of Research and Development, Environmental Monitoring Systems Laboratory, Cincinnati, OH. 460p.

U.S. Environmental Protection Agency. 1983. Water Quality Standards Handbook. Office of Water Regulations and Standards, Washington, D.C. 218p.

U.S. Environmental Protection Agency. 1995. Quality Criteria for Water 1995. Final Draft. Office of Water Regulations and Standards, Washington, D.C.

U.S. Environmental Protection Agency. 1989. Rapid Bioassessment Protocols for Use in Streams and Rivers: Benthic Macroinvertebrates and Fish. J. L. Plafkin, M. T. Barbour, K. D. Porter, S. K. Gross, and R. M. Hughes. EPA-444/4-89-001. Office of Water Regulations and Standards, Assessment and Watershed Protection Division, Washington, D.C. 162p.

U.S. Environmental Protection Agency. 1990. Macroinvertebrate Field and Laboratory Methods for Evaluating the Biological Integrity of Surface Waters. D. J. Klemm, P. A. Lewis, F. Fulk, and J. M. Lazorchak. EPA-600/4-90-030. Office of Research and Development, Environmental Monitoring Systems Laboratory, Cincinnati, OH. 256p.

U.S. Environmental Protection Agency. 1991a. Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms (4th ed.). C. I. Weber, ed. EPA-600/4-90-027. Office of Research and Development, Environmental Monitoring Systems Laboratory, Cincinnati, OH. 293p.

U.S. Environmental Protection Agency. 1991b. Monitoring Guidelines to Evaluate Effects of Forestry Activities on Streams in the Pacific Northwest and Alaska. L. H. MacDonald, A. W.Smart, and R. C. Wissmar. EPA-910/9-91-001. Region 10, Seattle, WA. 162p.

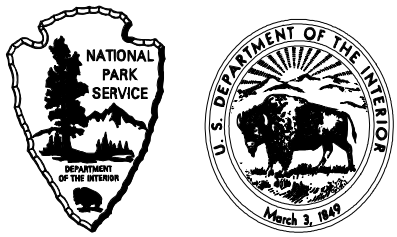
U.S. Environmental Protection Agency. 1993. Guide to Federal Water Quality Programs and Information. T. Stuart and N. P. Ross. EPA-230-B-93-001. Office of Strategic Planning and Environmental Data, Environmental Statistics and Information Division. Washington, D.C. 194p.

Verschueren, K. 1983. Handbook of Environmental Data on Organic Chemicals (2nd ed.). Van Nostrand Reinhold Co., New York, NY. 1310p.

Viessman W. and M. J. Hammer. 1985. Water Supply and Pollution Control (4th ed.). Harper and Row, Publishers, Inc. New York, NY. 797p.

Ward, R. C., J. C. Loftis, and G. B. McBride. 1990. Design of Water Quality Monitoring Systems. Van Nostrand Reinhold Co., New York, NY. 231p.

Wetzel, R. G. 1983. Limnology (2nd ed.). Sanders College Publishing, Philadelphia, PA. 767p.



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