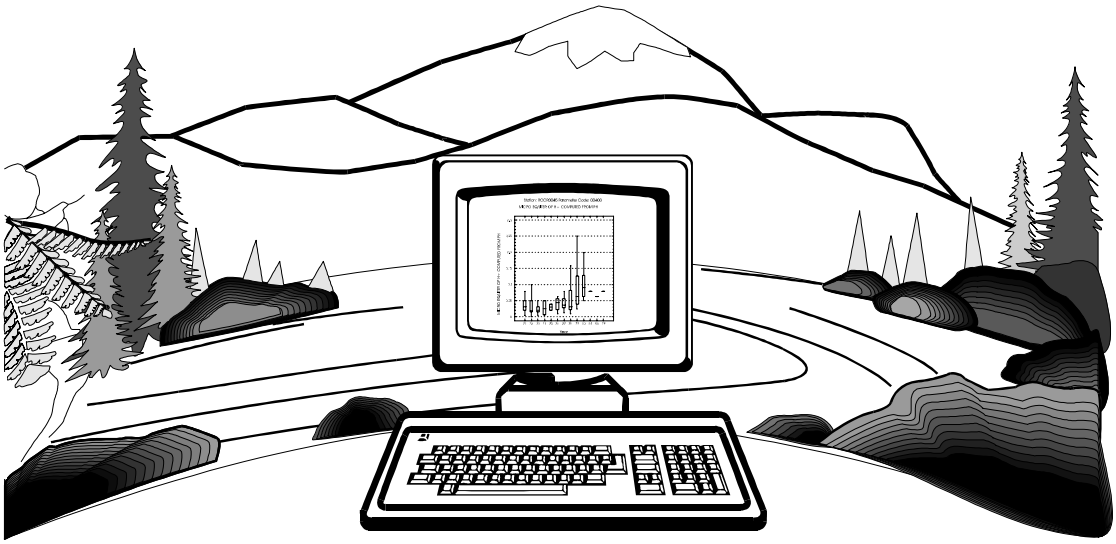
Baseline Water Quality Data

Inventory and Analysis

Bighorn Canyon National Recreation Area



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BASELINE WATER QUALITY DATA

INVENTORY AND ANALYSIS

BIGHORN CANYON NATIONAL RECREATION AREA

National Park Service
Water Resources Division
Fort Collins, CO 80525

Technical Report NPS/NRWRD/NRTR-98/164

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EXECUTIVE SUMMARY

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

The results of the retrievals for the study area from the IFD, DRINKS, GAGES, and DAMS databases located five industrial/municipal dischargers; one drinking water intake; 16 active or inactive U. S. Geological Survey (USGS) water gages (including stream and lake), and seven water impoundments. The results of the STORET retrieval for the study area yielded 73,531 observations for 397 separate parameters collected by the NPS, USGS, EPA, Wyoming Department of Environmental Quality, and Montana Department of Environmental Quality at 210 monitoring stations from 1901 through 1997[†]. Approximately 53 percent of the 73,531 observations within the study area were collected by the USGS from 1901 through 1997. Of the 210 monitoring stations, 87 stations were located within the park boundary (see Station Period of Record Tabulation). One of these 210 monitoring stations contained data locked by the EPA[††]. These locked data are not included in the 73,531 total observations retrieved from STORET for the BICA study area. Two other stations within the study area (one within the park boundary) were established but contained no data.

Most of the monitoring stations represent either one-time or intensive single-year sampling efforts by the collecting agencies. Sixteen stations within the study area (eight within the park boundary) yielded longer-term records consisting of multiple observations for several important water quality parameters (see Station Period of Record Tabulation). The stations yielding the longest-term records within the park boundary are: (1) Bighorn River near St. Xavier, MT (BICA 0180); (2) Bighorn Lake below Horseshoe Bend (BICA 0046); (3) Bighorn Lake at Yellowtail Dam (BICA 0174); (4) Bighorn Lake ten miles from dam (BICA 0132); and (5) Bighorn Lake 20 miles from dam (BICA 0099). The stations yielding the longest-term records within the study area, but outside of the park boundary, are: (1) Bighorn River at Kane, WY (BICA 0002); (2) Shoshone River near Lovell, WY (BICA 0019); (3) Shoshone River at Kane, WY (BICA 0026); (4) Shoshone River one mile west of Lovell, WY (BICA 0016); and (5) Soap Creek at the County Road 313 Bridge (BICA 0200)[†††].

[†]Of the 73,531 observations reported in the study area, one elevation value, entered in STORET by the USGS, was dated 01/01/01. The second oldest observation entered in STORET for the BICA study area was collected in 1947. Consequently, a more representative period of record for observations in the study area would be from 1947 through 1997.

[††]When data are entered into STORET and locked by the controlling agency (EPA), results of a STORET retrieval are limited to general station information and any "unlocked" portions of the data. Additional data must be obtained by contacting the controlling agency (EPA).

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

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 BICA water quality criteria screen found 20 groups of parameters that exceeded screening criteria at least once within the study area. Dissolved oxygen, pH, cadmium, copper, lead, mercury, silver, and zinc exceeded their respective EPA criteria for the protection of freshwater aquatic life. Nitrate, nitrite, nitrite plus nitrate, sulfate, arsenic, beryllium, cadmium, chromium, lead, mercury, nickel, and uranium exceeded their respective EPA drinking water criteria. Fecal-indicator bacteria concentrations (total coliform and fecal coliform) and turbidity exceeded the WRD screening limits for freshwater bathing and aquatic life, respectively.

Dissolved oxygen concentrations were measured 708 times at 31 monitoring stations from 1957 through 1997. Forty-seven concentrations, reported at depths greater than 50 feet, at nine monitoring stations within the park in Bighorn Lake (BICA 0065, BICA 0070, BICA 0072, BICA 0087, BICA 0113, BICA 00136, BICA 0143, BICA 0174, BICA 0176), were less than or equal to the 4 milligrams per liter (mg/L) EPA criterion for the protection of aquatic life from 1968 through 1970.

The pH was measured 2,268 times at 159 monitoring stations from 1947 through 1997. Of the 2,267 observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation), six concentrations at six monitoring stations, in the Bighorn River at Kane, WY, just upstream of the park (BICA 0002), a stream south of Sunlight Canal (BICA 0017), Shoshone River near Lovell, WY (BICA 0019), and within the park, in Yellowtail Reservoir (Bighorn Lake) (BICA 0032, BICA 0055) and Bighorn River near St. Xavier, MT (BICA 0180), were outside the pH range of 6.5 to 9.0 standard units (SU) (EPA chronic criteria for freshwater aquatic life) from 1972 through 1984. Four observations were greater than or equal to pH 9.0 and two observations were less than or equal to pH 6.5. The highest pH of 9.7 SU was reported in the Bighorn River at Kane, WY, just upstream of the park (BICA 0002) in December 1979. The lowest pH of 6.3 SU was reported in a stream south of Sunlight Canal (BICA 0017) in July 1976.

Turbidity was measured 709 times at 20 monitoring stations from 1968 through 1983. One-hundred-eighty-one concentrations at 12 monitoring stations exceeded the WRD screening criterion of 50 Jackson Candle/Formazin/Nephelometric Turbidity Units (JTU/FTU/NTU) from 1968 through 1983. The highest concentration of 6,400 NTU was reported within the park in the Bighorn River 0.5 mile south of Bighorn Lake (BICA 0010) in September 1980.

Total coliform concentrations were measured 111 times at seven monitoring stations from 1967 through 1995. Twenty-eight concentrations at three stations, within the park in Bighorn Lake near Horseshoe Bend (BICA 0047, BICA 0053) and the Bighorn River at Kane, WY, just upstream of the park (BICA 0002), exceeded the WRD bathing water screening criterion of 1,000 Colony Forming Units/Most Probable Number per 100 milliliters (CFU/MPN/100 ml) from 1967 through 1990. Twenty of these 28 concentrations were reported within the park in Bighorn Lake below Horseshoe Bend (0047) from 1967 through 1974, including the highest concentration of 46,000 CFU/100 ml in June 1967. Fecal coliform concentrations were measured 599 times at 12 monitoring stations from 1968 through 1990. Of the 595 observations used in the criteria analysis (see Remark Code Screen in the Methodology for explanation), 159 concentrations at ten monitoring stations, in the Shoshone River (BICA 0015, BICA 0019, BICA 0020, BICA 0026), within the park in Bighorn Lake (BICA 0032, BICA 0047, BICA 0051, BICA 0053, BICA 055), and the Bighorn River at Kane, WY, just upstream of the park (BICA 0002), exceeded the WRD bathing water screening criterion of 200 CFU/MPN/100 ml from 1968 through 1990. The highest concentration of 31,000 CFU/100 ml was reported in the Bighorn River at Kane, WY, just upstream of the park (BICA 0002) in June 1974.

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in STORET are replicated in this document.

Nitrate concentrations (including dissolved and total as N and as NO_3) were measured 1,674 times at 47 monitoring stations from 1947 through 1980. Of the 1,673 observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation), two dissolved nitrate as NO_3 concentrations, 150 mg/L in the Bighorn River at Kane, WY, just upstream of the park (BICA 0002) and 90 mg/L in the Shoshone River near Lovell, WY (BICA 0019), exceeded the drinking water criterion of 44 mg/L for nitrate as NO_3 in July 1956 and December 1968, respectively.

Nitrite concentrations (including dissolved and total as N and dissolved as NO_2) were measured 528 times at 18 monitoring stations from 1964 through 1982. Thirty-six dissolved nitrite as NO_2 concentrations at two stations, in the Bighorn River at Kane, WY, just upstream of the park (BICA 0002) and the Shoshone River at Kane, WY, at the State Route 37 Bridge (BICA 0026), exceeded the drinking water criterion of 3.3 mg/L for nitrite as NO_2 during 1964 and 1965. The highest concentration of 9 mg/L was reported three times in the Bighorn River at Kane, WY, just upstream of the park (BICA 0002) in June and July 1965 and twice in the Shoshone River at Kane, WY, at the State Route 37 Bridge (BICA 0026) in August 1965.

Nitrite plus nitrate concentrations (including dissolved and total) were measured 701 times at 26 monitoring stations from 1971 through 1989. One dissolved concentration of 11 mg/L in the Shoshone River near Lovell, WY (BICA 0019) exceeded the drinking water criterion of 10 mg/L in December 1979.

Total sulfate concentrations were measured 1,397 times at 33 monitoring stations from 1947 through 1988. Of the 1,396 observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation), 944 concentrations at 21 monitoring stations located throughout the study area equaled or exceeded the secondary drinking water criterion of 250 mg/L from 1947 through 1988. The highest concentration of 1,770 mg/L was reported in the Bighorn River at Kane, WY, just upstream of the park (BICA 0002) in July 1961.

Arsenic concentrations (including dissolved and total) were measured 49 times at nine monitoring stations from 1970 through 1991. One dissolved concentration of 60 micrograms per liter (µg/L) in the Bighorn River at Kane, WY, just upstream of the park (BICA 0002) exceeded the drinking water criterion of 50 µg/L in April 1971.

Beryllium concentrations (including dissolved and total) were measured 73 times at 42 monitoring stations from 1970 through 1991. One total concentration of 32.99 µg/L at the mouth of Rotten Grass Creek (BICA 0209) exceeded the drinking water criterion of 4 µg/L in April 1977.

Cadmium concentrations (including dissolved and total) were measured 59 times at 16 monitoring stations from 1970 through 1991. Of the 53 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), three concentrations at two monitoring stations, in the Bighorn River at Kane, WY, just upstream of the park (BICA 0003) and the mouth of Rotten Grass Creek (BICA 0209), exceeded the acute freshwater criterion of 3.9 µg/L during 1973 and 1977. Two of these three concentrations, reported in the Bighorn River at Kane, WY, just upstream of the park (BICA 0003), also equaled the drinking water criterion of 5 µg/L in April 1973 and July 1973.

Chromium concentrations (including dissolved, total, and hexavalent) were measured 135 times at 91 monitoring stations from 1970 through 1991. One dissolved concentration of 134 µg/L within the park at a spring northwest of Hillsboro (BICA 0082) exceeded the drinking water criterion of 100 µg/L in July 1978.

Copper concentrations (including dissolved and total) were measured 379 times at 109 monitoring stations from 1957 through 1991. Thirty-three concentrations at 32 stream or spring monitoring stations located throughout the study area exceeded the acute freshwater criterion of 18 µg/L from 1969 through 1979. The highest concentration of 67 µg/L was reported in Pitchfork Creek (BICA 0151) in January 1979.

Lead concentrations (including dissolved and total) were measured 104 times at 57 monitoring stations from 1970 through 1991. Of the 102 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), 45 dissolved concentrations at 45

stream or spring monitoring stations located throughout the study area exceeded the drinking water criterion of 15 µg/L from 1972 through 1979. Forty-four of these 45 concentrations also exceeded the acute freshwater criterion of 82 µg/L during 1978 and 1979. The highest concentration of 5,250 µg/L was reported within the park at a spring northwest of Hillsboro (BICA 0082) in July 1978.

Mercury concentrations (including dissolved and total) were measured 47 times at 13 monitoring stations form 1970 through 1991. Two dissolved concentrations, 6.2 µg/L and 5 µg/L in the Bighorn River south of Kane, WY (BICA 0001), exceeded the drinking water criterion of 2 µg/L and the acute freshwater criterion of 2.4 µg/L in February 1973 and September 1973, respectively.

Nickel concentrations (including dissolved and total) were measured 117 times at 88 monitoring stations from 1970 through 1989. Twenty concentrations at 20 monitoring stations exceeded the drinking water criterion of 100 µg/L during 1977 and 1978. The highest concentration of 228 µg/L was reported within the park at a spring northwest of Hillsboro (BICA 0082) in July 1978.

Dissolved silver concentrations were measured 62 times at 39 monitoring stations from 1970 through 1991. Nine concentrations at nine monitoring stations, southeast of Fort Smith, MT (BICA 0130, BICA0133, BICA 0137, BICA 0157, BICA 0160), north of Fort Smith, MT (BICA 0198, BICA 0202, BICA 0204), and within the park in a tributary to Lime Kiln Creek (BICA 0161), exceeded the acute freshwater criterion of 4.1 µg/L during 1978 and 1979. The highest concentration of 8 µg/L was reported four times, in West Soap Creek (BICA 0130) in October 1978, a tributary to War Man Creek (BICA 0133) in October 1979, a spring near Soap Creek (BICA 0157) in October 1978, and a spring north of Fort Smith (BICA 0198) in November 1978.

Natural uranium concentrations (including dissolved and suspended) were measured 103 times at 101 monitoring stations from 1973 through 1979. Nine concentrations at nine monitoring stations, north of Fort Smith (BICA 0197, BICA 0198, BICA 0205, BICA 0206), east of Fort Smith (BICA 0146, BICA 0185, BICA 0193), Bighorn River at Kane, WY, just upstream of the park (BICA 0003), and a stream south of Sunlight Canal (BICA 0018), exceeded the drinking water criterion of 20 µg/L from 1973 through 1978. The highest concentration of 73.72 µg/L was reported in Mountain Pocket Creek at the County Road 313 Bridge (BICA 0193) in October 1978.

Zinc concentrations (including dissolved and total) were measured 368 times at 110 monitoring stations from 1957 through 1991. Forty-six concentrations at 34 stream or spring monitoring stations located throughout the study area equaled or exceeded the acute freshwater criterion of 120 µg/L from 1957 through 1988. The highest concentration of 874 µg/L was reported within the park at a spring south of Davis Creek (BICA 0086) in July 1978.

The IDEA conducted for BICA indicates that STORET data exist for all 13 Level I parameter groups in the study area. For the group Chlorophyll, no observations were recorded since 1980. For the groups Alkalinity and Clarity/Turbidity, no observations were recorded since 1983. For the other ten parameter groups, less than 18 percent of the observations were recorded since 1985. Overall, approximately 6 percent of the observations for Level I parameter groups were recorded since 1985. Data for nine groups, Alkalinity, Dissolved Oxygen, Flow, Clarity/Turbidity, Nitrate/Nitrogen, Phosphate/Phosphorus, Chlorophyll, Sulfates/Total Dissolved Solids/Hardness, and Bacteria, were recorded at less than half of the 207 monitoring stations with data. Relative to other groups, data were limited for Dissolved Oxygen, Clarity/Turbidity, Chlorophyll, and Bacteria. Results for 23 of the 126 EPA priority toxic pollutants (consisting of general inorganics, metals, and pesticides) were retrieved from STORET.

Surface water resources in the BICA study area include the Bighorn and Shoshone Rivers; Porcupine, Crooked, Dry Head, Black Canyon, and numerous other perennial and intermittent creeks; Bighorn, Lovell, and other smaller reservoirs and developed ponds; Sunlight, Globe, Lovell, and other irrigation ditches and canals; and numerous springs. The data inventories and analyses contained in this report reveal a shortage of relatively recent observations for many key parameters at stations throughout the study area. Of the 210 monitoring stations in the study area, only 13 stations reported 5,187 total observation to STORET since 1985. Five stations (BICA 0002, BICA 0019, BICA 0026, BICA 0073, BICA 0180) accounted for approximately 93 percent of the data since 1985.

Without adequate data it is difficult to make definitive statements regarding recent water quality in the study area; however, from the available data, water quality has generally been good with some impacts from human activities. Potential natural sources of contamination include erosion from runoff. Potential anthropogenic sources of contamination include municipal and industrial wastewater discharges (including produced water discharges from oil and gas facilities); ranching and agricultural activities; recreational use; quarrying and mining activities; timbering operations; oil and gas exploration; and 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.

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

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

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

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

Donnie Dustin, Greg Harp, and Clint Bassett helped prepare reports and write the Executive Summaries.

Elizabeth Eisenhauer, Robert Flynn, Dawn Grandbois, Bill Folsom, Dana Griffin, Jonathan Duran, and Aymn Elhaddad provided digital cartographic support, both in determining retrieval/query areas and producing maps and graphics.

Kelli O'Connor, Mary Beth Talty, Curtis Cooper, Paul McElvery, J. Chris Echohawk, Kristie Maczko, Adam Henson, Shawndra Mawhorter, Lisa Smith, Eric Janney, Ryan Shy, Lisa Dummer, Eric Lord, Adriane Petersen, and Margaret Matter uploaded water quality data to STORET prior to report preparation.

Jacquie Nolan designed the cover.

Horizon Systems:

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

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

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

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

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

Other National Park Service:

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

METHODOLOGY

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

Delineation of Park Study Area

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

Data Sources

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

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

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

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

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

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

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

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

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

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

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

Data Retrieval and Analysis Procedures

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

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

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

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

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

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

Park Unit Databases

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

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

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

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

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

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

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

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

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

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

Screening Methodologies and Procedures

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

STORET Edit Criteria

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

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

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

Date Screen

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

Station Type Screen

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

Station Types Included In Retrieval

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

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

Phase 0 Parameter Screen

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

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

Phase 1 Parameter Screen

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

Media Type Screen

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

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

Remark Code Screen

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

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

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

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

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

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

Composite Type Screen

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

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

Phase 2 Parameter Screen

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

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

Observations/Period of Record Screen

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

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

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

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

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

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

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

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

Statistical Definitions

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

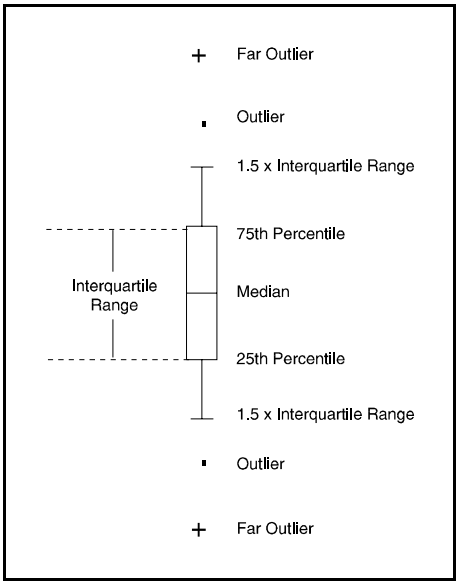
Table H. Definition of Descriptive Statistics Contained in Inventory, Annual, and Seasonal Tables

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

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

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

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



INTERPRETIVE GUIDE

TO WATER QUALITY RESULTS

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

Overview

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

Regional Location Map

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

Water Quality Monitoring Locations Map(s)

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

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

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

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

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

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

Representative Mean Annual Hydrograph for Seasonal Analysis

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

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

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

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

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

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

Contacts for Agency Codes Retrieved

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

Quantity of Data Retrieved by Agency Code

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

Station Period of Record Tabulation

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

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

Parameter Period of Record Tabulation

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

Station/Parameter Period of Record Tabulation

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

Station-By-Station Results

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

Station Inventory for Station

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

Parameter Inventory for Station

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

Two downloaded parameter groups, pH and bacteriological, received special treatment whenever descriptive statistics were computed in the Parameter Inventory (as well as subsequent annual and seasonal tables). Whenever pH appears in a descriptive statistics table, the entry is increased to 3 entries: (1) the original pH entry; (2) pH computed from conversion to and from 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 BICA

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:	661098	119594
# STORET Stations:	210	87
# Stations With No Data:	3	1
# Stations With No Stat. Analysis:	0	0
# Longer Term Stations:	16	8
Date of STORET Retrieval:	06/02/98	06/02/98
Period of Record:	01/01/01-04/14/97	07/15/56-02/11/97
# Parameters Measured:	397	159
# Water Quality Observations:	73531	35892
# Industrial/Municipal Facilities:	5	1
# Drinking Water Intakes:	1	0
# Water Gages:	16	6
# Water Impoundments:	7	3
# Total Plots:	123	3
# Time Series:	43	1
# Annual:	39	1
# Seasonal:	41	1

Hydrologic Definition of Seasons:

1. August 10 - April 14
2. April 15 - June 19
3. June 20 - August 9

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 15 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.

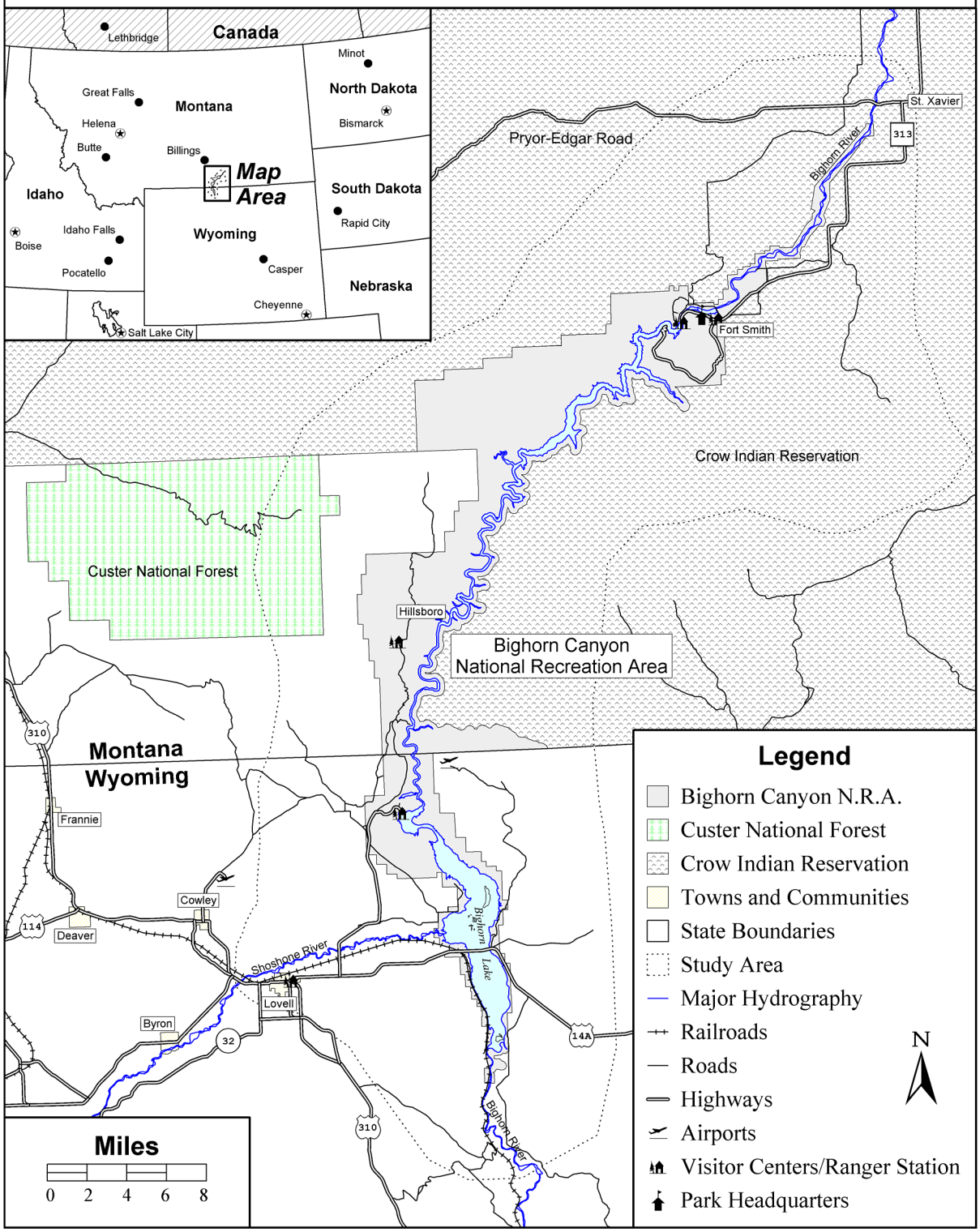
Seasonal Analysis Criteria:

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.

Bighorn Canyon National Recreation Area

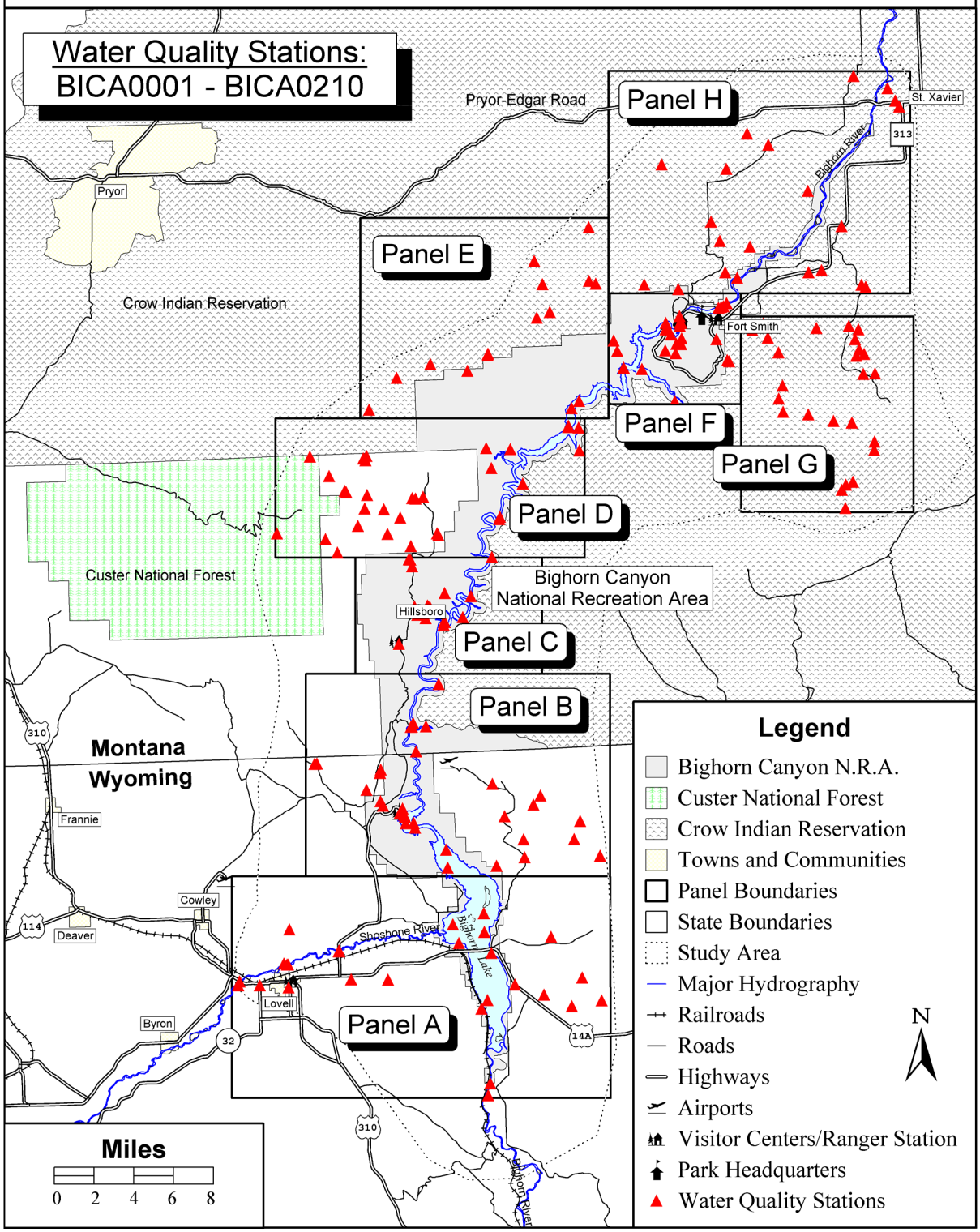
Regional Location Map



Bighorn Canyon National Recreation Area

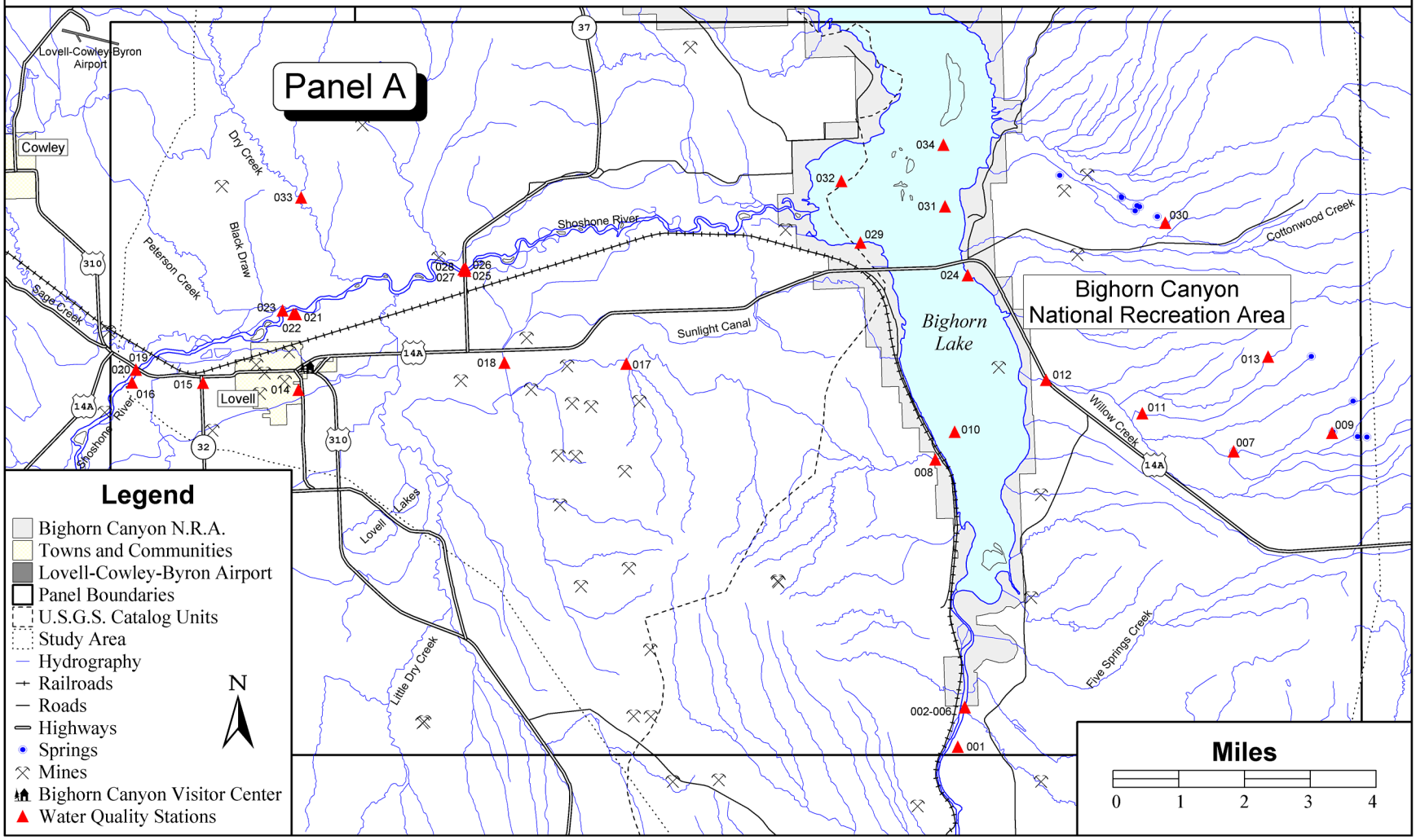
Water Quality Monitoring Locations

Graphic Panel Index



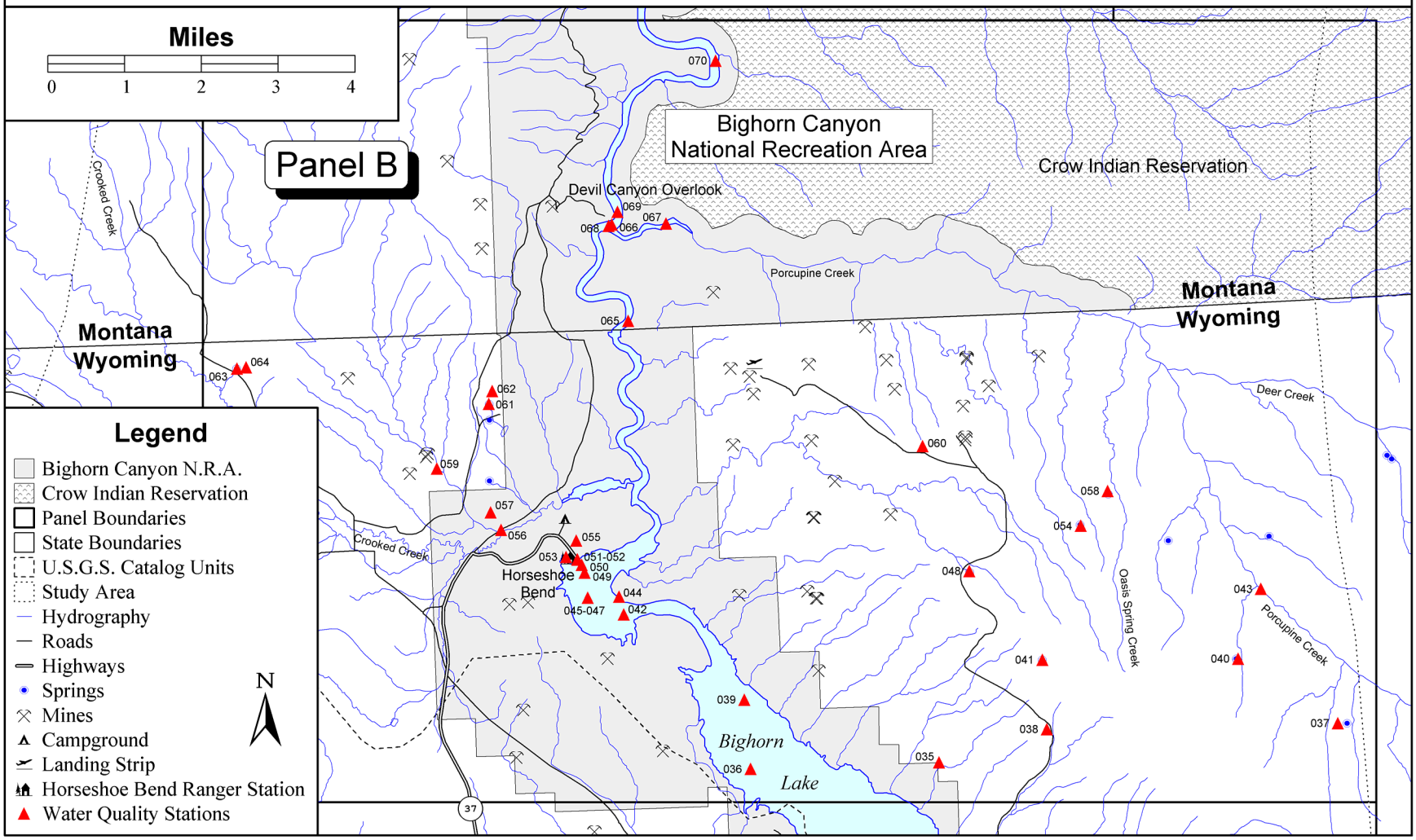
Bighorn Canyon National Recreation Area

Water Quality Monitoring Locations



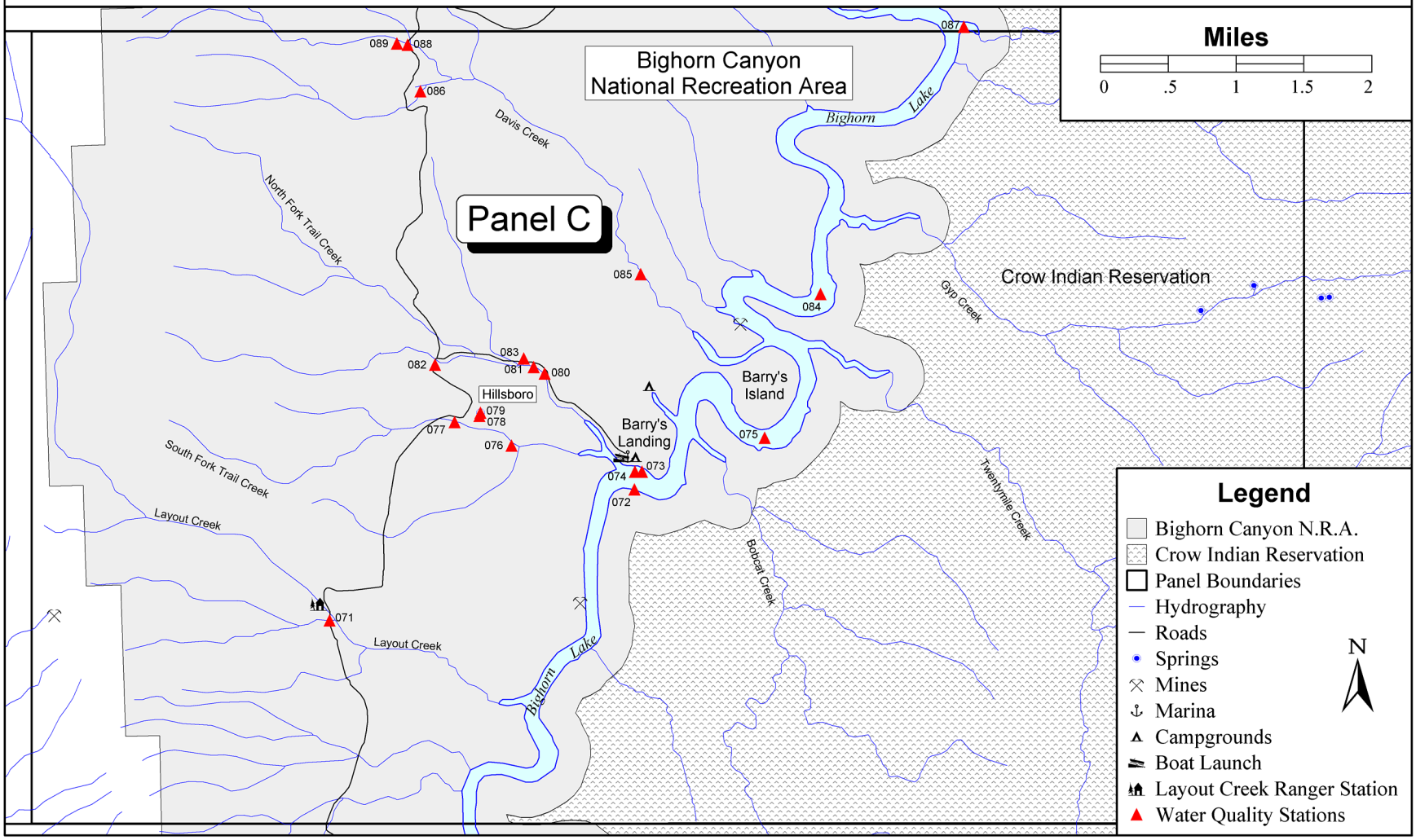
Bighorn Canyon National Recreation Area

Water Quality Monitoring Locations



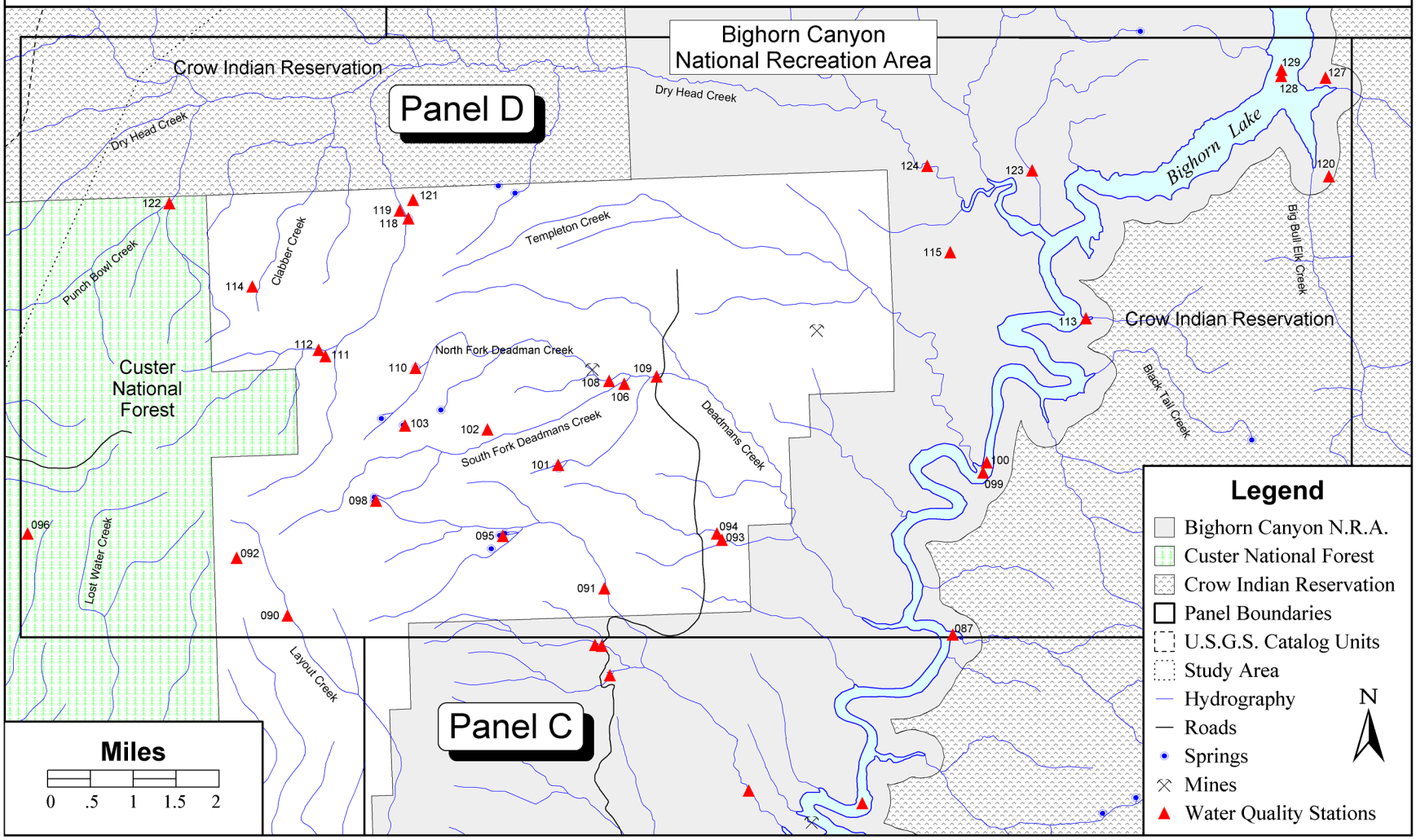
Bighorn Canyon National Recreation Area

Water Quality Monitoring Locations



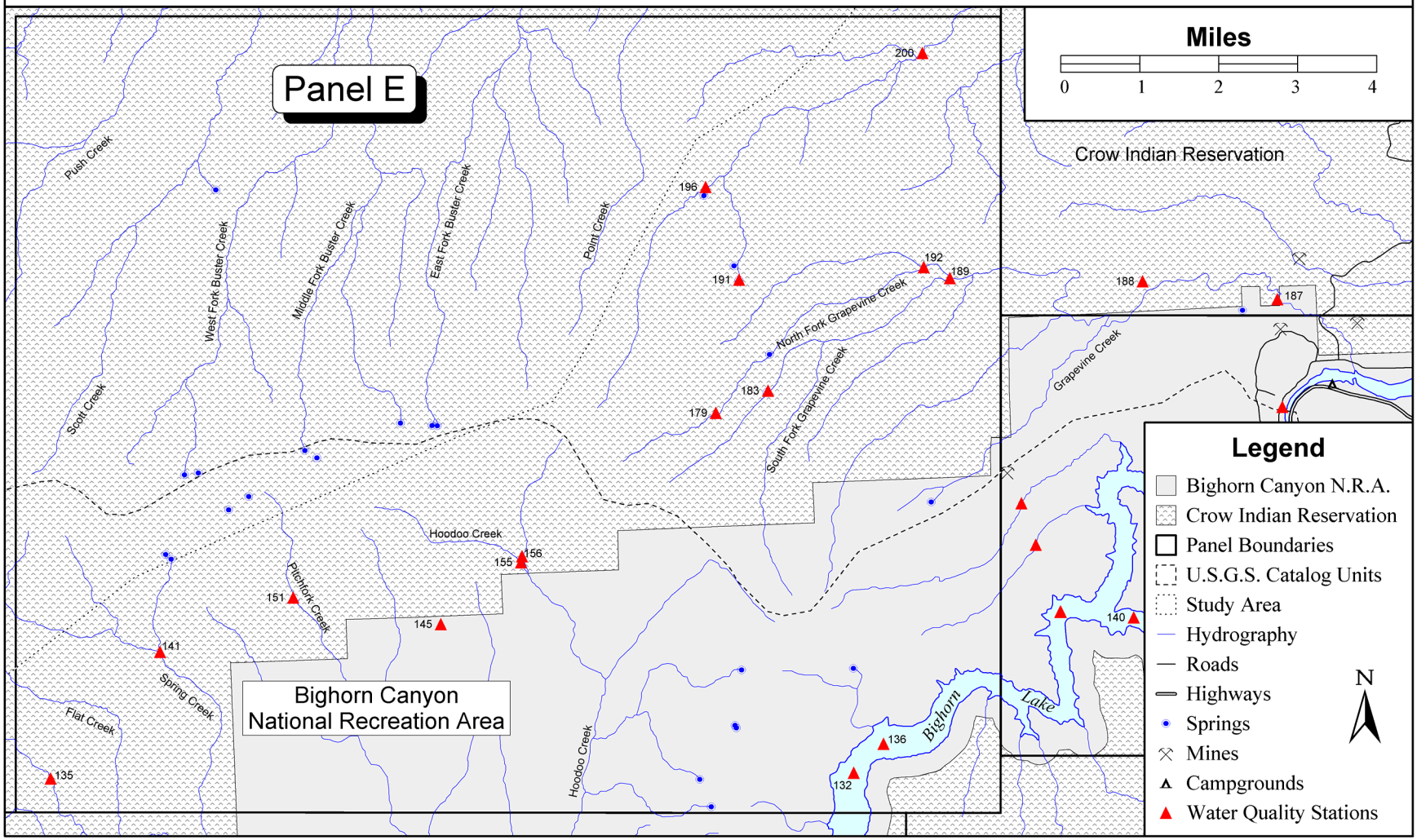
Bighorn Canyon National Recreation Area

Water Quality Monitoring Locations



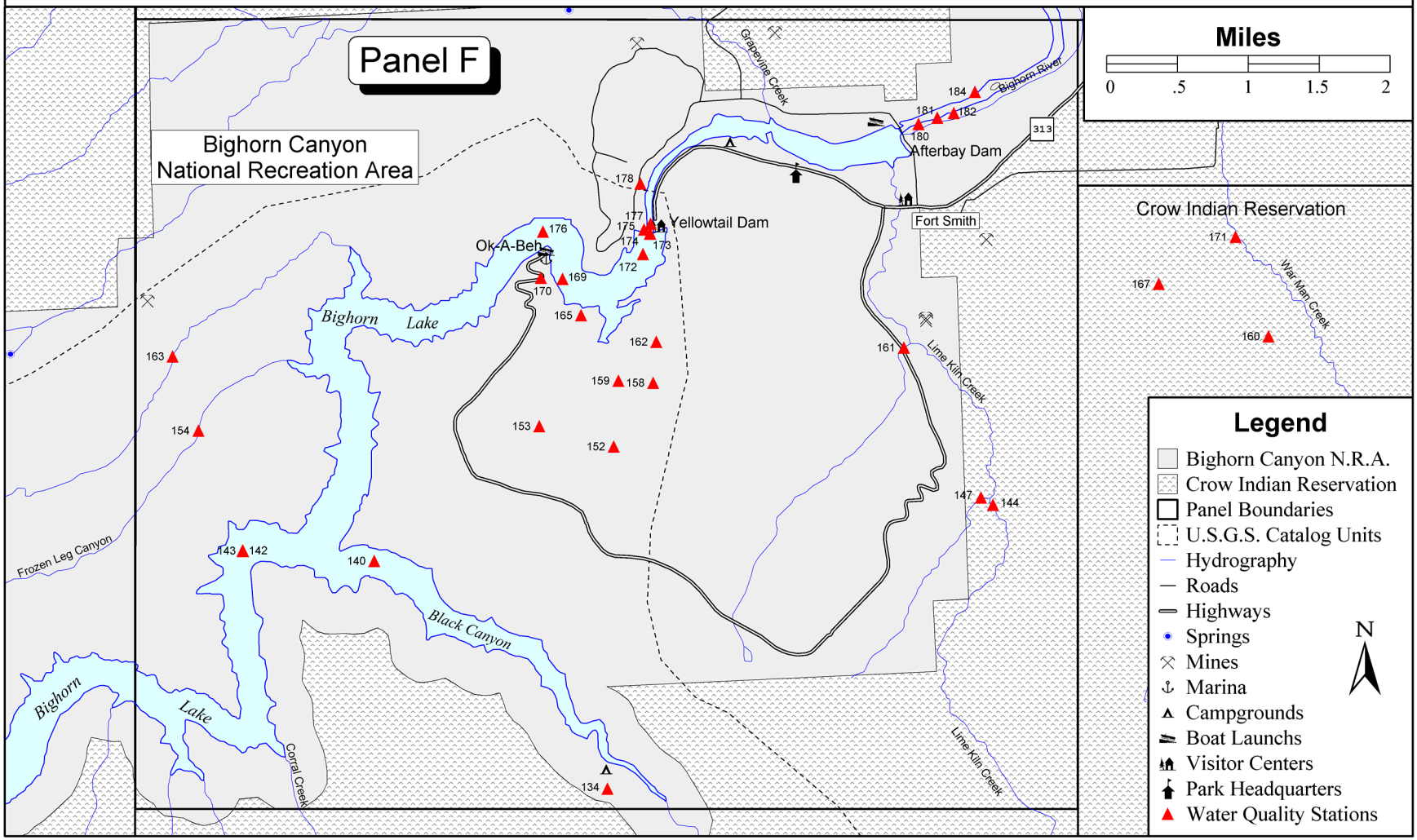
Bighorn Canyon National Recreation Area

Water Quality Monitoring Locations



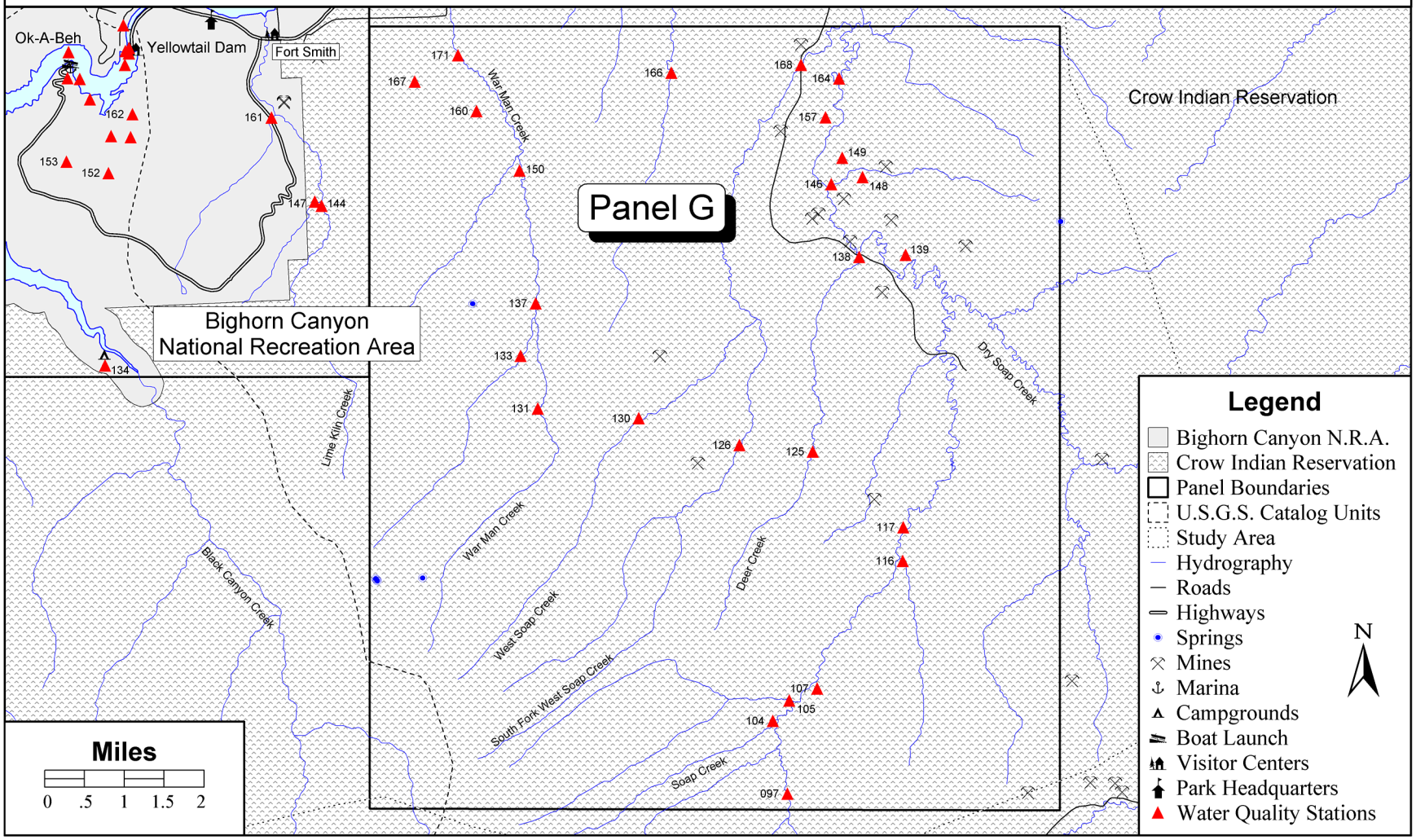
Bighorn Canyon National Recreation Area

Water Quality Monitoring Locations



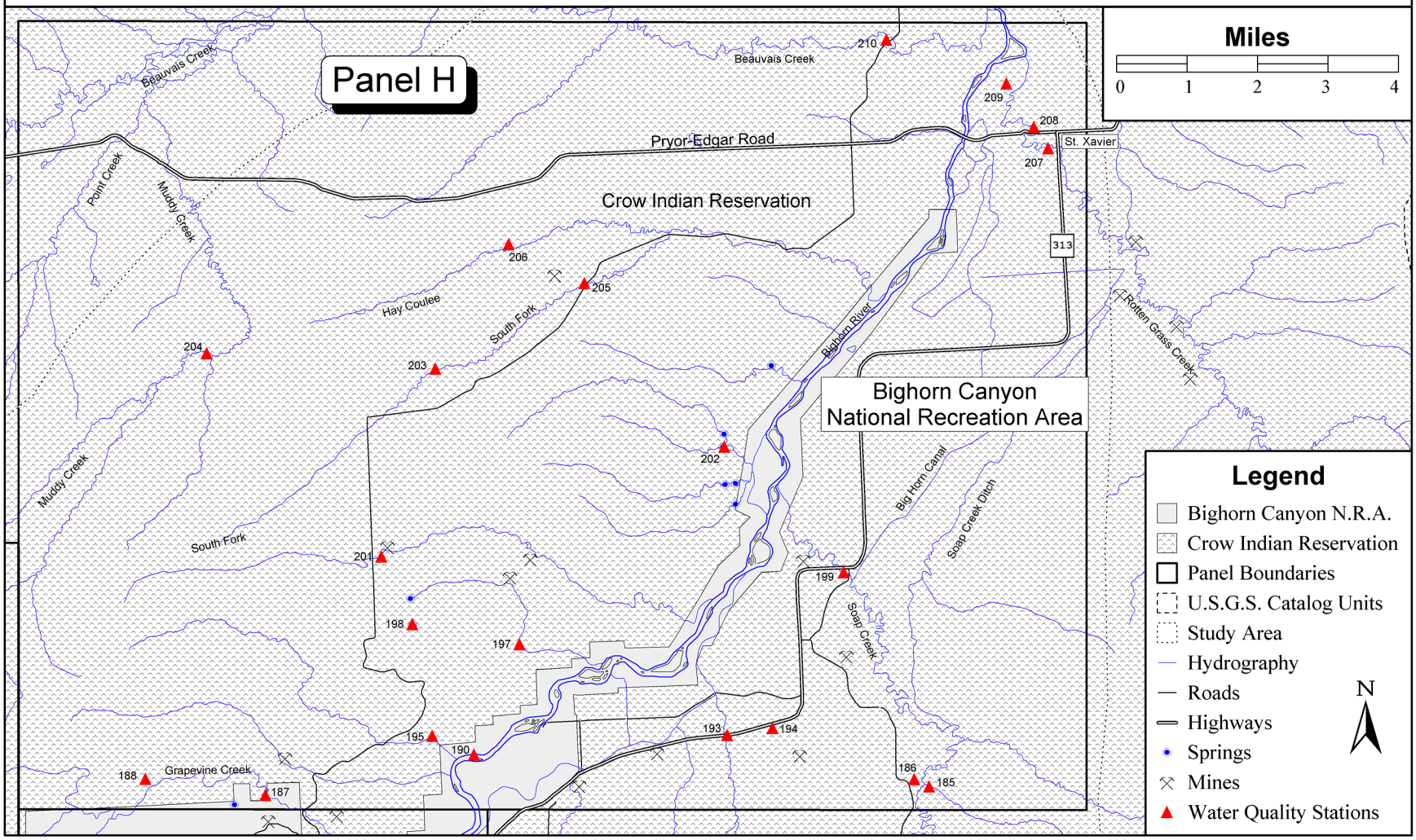
Bighorn Canyon National Recreation Area

Water Quality Monitoring Locations



Bighorn Canyon National Recreation Area

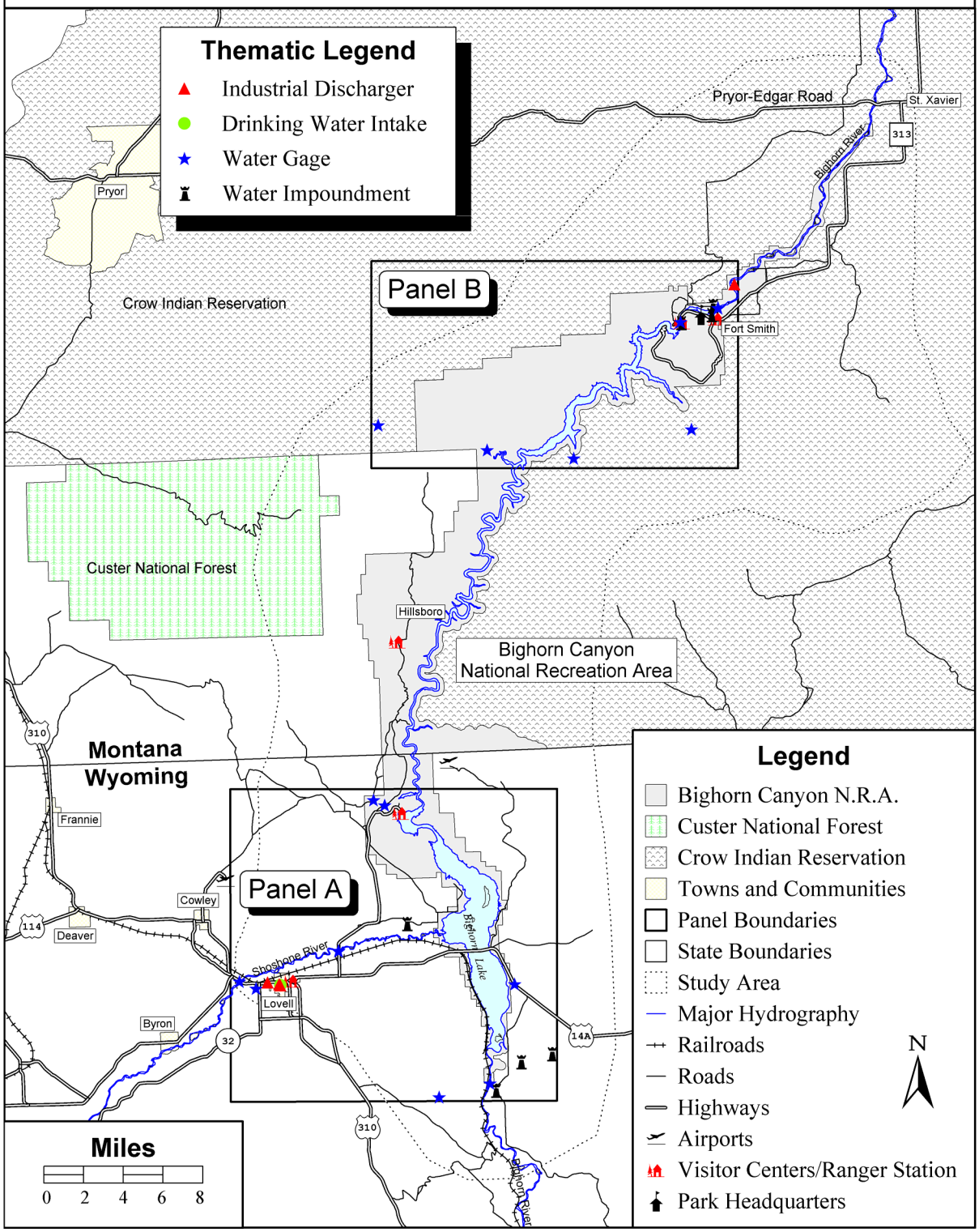
Water Quality Monitoring Locations



Bighorn Canyon National Recreation Area

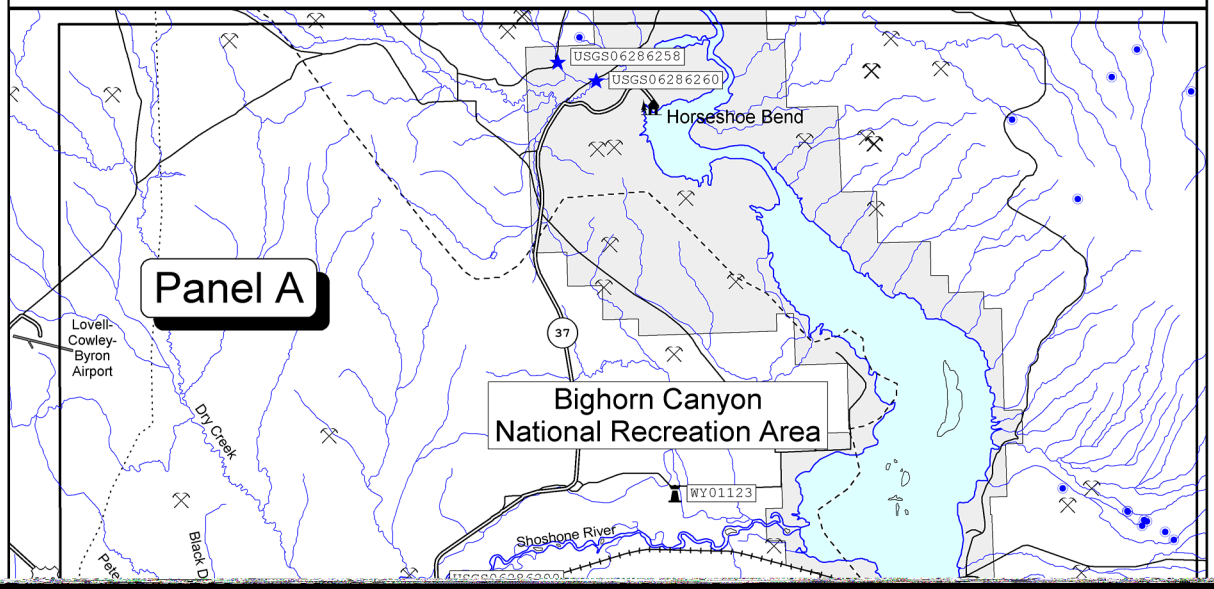
Dischargers, Drinking Intakes, Water Gages, & Water Impoundments

Graphic Panel Index



Bighorn Canyon National Recreation Area

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



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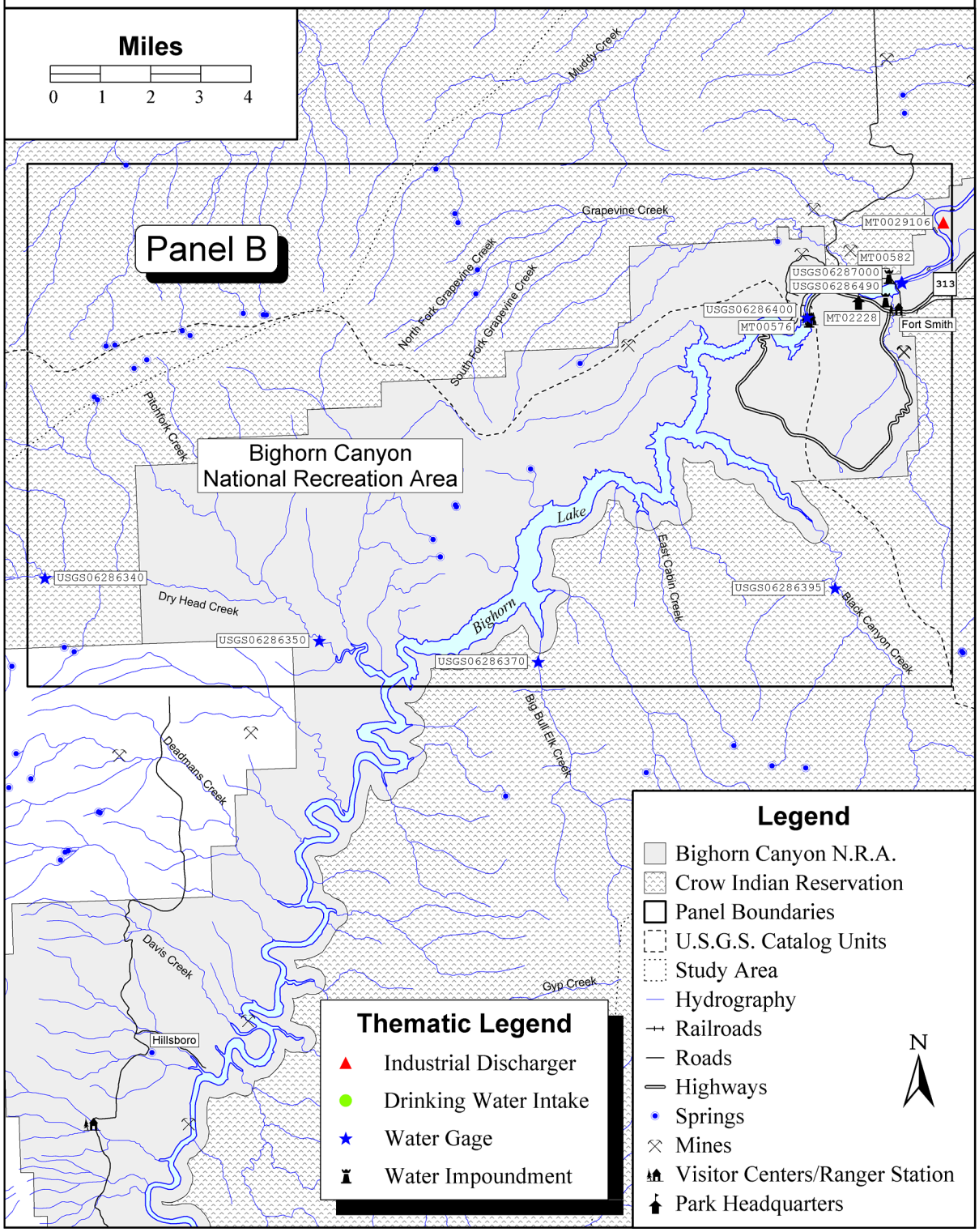
Bighorn Canyon National Recreation Area

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



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

Industrial Facility Discharges

Site ID	Station/Facility Name	Address	City	Facility Receiving Water Name
MT0029106	USDOI BOR BIG HORN NTL REC ARE	P O BOX 528 YRS	FORT SMITH	
WY0000418	WESTERN SUGAR CO LOVELL	1700 BROADWAY, SUITE 1600	DENVER	TR TO SHOSHONE R
WY0002046	WYO FISH & GAME TILLET SPGS	5400 BISHOP BLVD	LOVELL	
WY0020061	LOVELL TOWN OF	.....	LOVELL	.....
WY0022446	BISCHOFF LIVESTOCK CO	P O BOX 815	LOVELL	

Drinking Water Intakes

Site ID	Station/Facility Name	City	Population Served	Avg. Daily Production (Gal./Day)
56573801500000P1	TREATMENT PLANT	LOVELL	2800	0000.00

Water Gages

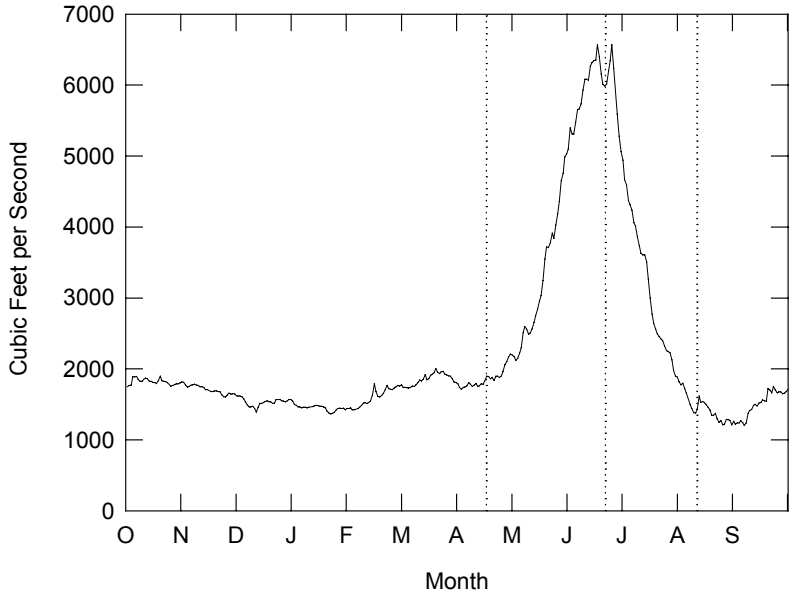
Site ID	Station Name	Site Type	Drainage Area (Square Miles)	Begin Year	End Year
USGS06279500	BIGHORN R AT KANE WYO	Stream	15676.0	1929	1997
USGS06279700	WILLOW CREEK NEAR KA	Stream	14.00		
USGS06285100	SHOSHONE RIVER NEAR LOVELL WYO	Stream	2350.00	1967	1997
USGS06286258	BIG COULEE NEAR LOVELL, WYO.	Stream	28.80	1970	1978
USGS06286400	BIGHORN LK NR ST XAV	Lake	19626.0		
USGS06287000	BIGHORN RIVER NEAR ST. XAVIER, MT.	Stream	19667.0	1935	1997
USGS06286340	DRY HEAD CREEK NEAR PRYOR, MT.	Stream	58.00	1965	1966
USGS06286350	DRY HEAD CREEK ABOVE HOODOO CREEK, NR PRYOR, MT.	Stream	80.00	1966	1968
USGS06286370	BIG BULL ELK CREEK NEAR ST XAVIER, MT.	Stream	35.00	1965	1968
USGS06286395	BLACK CANYON C BL T S CREEK, NR ST XAVIER, MT.	Stream	75.00	1966	1968
USGS06286490	BIG HORN CANAL NEAR ST. XAVIER, MT.	Stream		1988	1992
USGS06286000	SHOSHONE RIVER AT LOVELL WYO	Stream	2832.00	1897	1898
USGS06286020	SHOSHONE R BL BIG FORK CANAL NR LOVELL, WYO.	Stream			
USGS06286200	SHOSHONE RIVER AT KANE, WY	Stream	2989.00	1958	1968
USGS06286250	BIGHORN R NR LOVELL WYO	Stream	18900.0	1965	1966
USGS06286260	CROOKED C NR LOVELL WYO	Stream	119.00	1965	1968

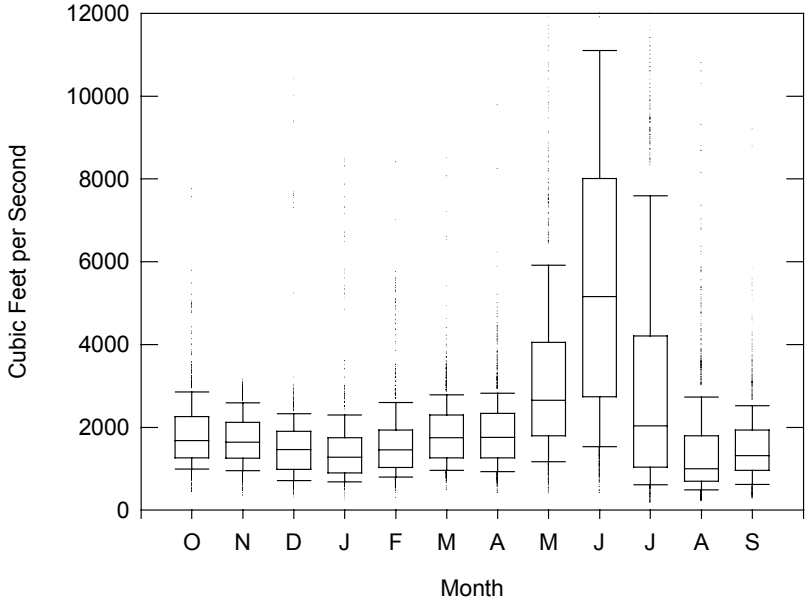
Water Impoundments

Site ID	Impoundment Name	Owner	Primary Purpose	Type of Dam	Downstream Hazard	Year Completed
MT00576	YELLOWTAIL	DOI BR	Irrig.	V. Arch	High	1966
MT00582	YELLOWTAIL AFTERBAY	DOI BR	Irrig.	Gravity	Low	1965
MT02228	FORT SMITH SEWAGE DISPOSAL P.	DOI BR	Other	Earth	Low	1962
WY01122	FIVE SPRINGS NO 2	H D BISCHOFF	Irrig.	Earth	Low	1970
WY01123	HORSESHOE	WYOMING GAME & FISH COMM	Other	Earth	Low	1969
WY01125	FIVE SPRINGS NO 1	H D BISCHOFF	Irrig.	Earth	Low	1970
WY01340	BISCHOFF CREEK	H D BISCHOFF	Irrig.	Earth	Low	1974

REPRESENTATIVE MEAN ANNUAL HYDROGRAPH FOR SEASONAL ANALYSIS

BIGHORN CANYON NATIONAL RECREATION AREA
Bighorn River at Kane, WY
06279500; 61 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 Bighorn Canyon National Recreation Area are: Aug. 10 to Apr. 14, Apr. 15 to Jun. 19, and Jun. 20 to Aug. 9.

CONTACTS FOR AGENCY CODES RETRIEVED FOR BICA

AGENCY	PRIMARY CONTACT NAME	ORGANIZATION	PHONE NUMBER(S)	
11NPSWRD	TUCKER, DEAN	NATIONAL PARK SERVICE	(970)225-3516	(970)225-3518
112WRD	BRIGGS, JOHN	US GEOLOGICAL SURVEY	(703)648-5624	
1110NET	STORET USER ASSISTANCE	USEPA HQ	(202)260-7050	(800)424-9067
11EPALES	LAMBOU, VICTOR W.	USEPA	(702)798-2259	
21WYDHSS	PRATT, BETH	WYOMING DEPT ENV QUALITY	(307)777-7079	
11NATDC	HOELMAN, LOUIS	USEPA HQ	(202)260-7050	
21MTHDWQ	MITTELSTEDT, DON	MT DEQ-DATA MANAGEMENT	(406)444-2407	

QUANTITY OF DATA RETRIEVED FOR BICA BY AGENCY CODE

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

		Period of Record		Water Quality Stations		Longer Term[1] Stations		No Data Stations		Water Quality Observations		Water Quality Parameters	
Agency	Organization	Study Area /	Park Only	S.A. /	Park	S.A. /	Park	S.A. /	Park	S.A. /	Park	S.A. /	Park
11NPSWRD	NATIONAL PARK SERVICE	07/15/56-09/06/95	07/15/56-09/06/95	157	60	6	6	0	0	30190	26825	112	96
112WRD	US GEOLOGICAL SURVEY	01/01/01-04/14/97	10/01/66-02/11/97	11	4	5	1	0	0	39315	6640	313	72
1110NET	USEPA HQ	07/19/72-10/31/73	No Data in Park	1	0	0	0	0	0	75	0	15	0
11EPALES	USEPA	10/05/74-10/17/75	10/05/74-10/17/75	12	10	0	0	0	0	2009	1886	18	18
21WYDHSS	WYOMING DEPT ENV QUALITY	03/24/67-08/25/88	03/24/67-08/25/88	9	5	3	1	1	1	731	361	34	22
11NATDC	USEPA HQ	No Data in S.A.	No Data in Park	1	0	0	0	1	0	0	0	0	0
21MTHDWQ	MT DEQ-DATA MANAGEMENT	11/19/73-03/02/84	05/04/74-07/06/77	19	8	2	0	1	0	1211	180	55	33
Totals		01/01/01-04/14/97	07/15/56-02/11/97	210	87	16	8	3	1	73531	35892	397	159

[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.

Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Parameter Code	Name	Total Obs	01/01/85 to 04/14/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	9	0	0	9	1	0
39372	DDT IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	9	0	0	9	1	0
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	24	0	18	6	2	0
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	28	0	17	11	3	1
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	13	4	0	9	2	0
39382	DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	9	0	0	9	1	0
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	24	0	18	6	2	0
39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	15	0	15	0	2	0
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	6	0	6	0	2	0
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	28	0	17	11	3	1
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	9	0	0	9	1	0
39392	ENDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	9	0	0	9	1	0
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	24	0	18	6	2	0
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	17	0	17	0	2	0
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	17	0	17	0	2	0
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	18	0	18	0	2	0
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	28	0	17	11	3	1
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	9	0	0	9	1	0
39412	HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	9	0	0	9	1	0
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	24	0	18	6	2	0
39415	METOLACHLOR, WATER, DISSOLVED UG/L	4	4	0	0	2	0
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	28	0	17	11	3	1
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	9	0	0	9	1	0
39422	HEPTACHLOR EPOXIDE IN SUSP. FRAC. WAT SAMP (UG/L)	9	0	0	9	1	0
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	24	0	18	6	2	0
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	6	0	6	0	2	0
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	6	0	6	0	2	0
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	26	0	17	9	2	0
39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	9	0	0	9	1	0
39518	PCBS IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	9	0	0	9	1	0
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	24	0	18	6	2	0
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	24	0	17	7	2	0
39532	MALATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	13	4	0	9	2	0
39533	MALATHION IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	7	0	0	7	1	0
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	24	0	17	7	2	0
39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	13	4	0	9	2	0
39543	PARATHION IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	7	0	0	7	1	0
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	24	0	17	7	2	0
39572	DIAZINON IN FILT. FRAC. OF WATER SAMPLE (UG/L)	13	4	0	9	2	0
39573	DIAZINON IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	7	0	0	7	1	0
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	24	0	17	7	2	0
39602	METHYL PARATHION IN FILT. FRAC. WATER SAMP.(UG/L)	9	0	0	9	1	0
39603	METHYL PARATHION IN SUSP. FRAC. WATER SAMP.(UG/L)	7	0	0	7	1	0
39632	ATRAZINE DISSOLVED IN WATER PPB	4	4	0	0	2	0
39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	34	31	3	0	1	0
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	62	31	20	11	3	1
39731	2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	12	0	12	0	2	0
39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	13	4	0	9	2	0
39733	2,4-D IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	9	0	0	9	1	0
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	62	31	20	11	3	1
39741	2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	12	0	12	0	2	0
39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	13	4	0	9	2	0
39743	2,4,5-T IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	9	0	0	9	1	0
39755	MIREX, TOTAL (UG/L)	10	0	10	0	2	0
39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	6	0	6	0	2	0
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	62	31	20	11	3	1
39761	SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	12	0	12	0	2	0
39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	13	4	0	9	2	0
39763	SILVEX IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	9	0	0	9	1	0
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	17	0	17	0	2	0
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	17	0	17	0	2	0
46342	ALACHLOR (LASSO), WATER, DISSOLVED UG/L	4	4	0	0	2	0
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	1	0	0	1	1	0
49235	TRICLOPYR,RECOVERABLE,WATER,FILTER,GF,0.7U UG/L	4	4	0	0	2	0
49236	PROPHAM, RECOVERABLE,WATER,FILTER,GF,0.7U UG/L	4	4	0	0	2	0
49260	ACETOCHLOR, RECOVERABLE, WATER, FILTERED UG/L	4	4	0	0	2	0
49291	PICLORAM,RECV,FILTERED,WATER,GF,0.7U UG/L	4	4	0	0	2	0
49292	ORYZALIN,RECV,FILTERED,WATER,GF,0.7U UG/L	4	4	0	0	2	0
49293	NORFLURAZON,RECV,FILTERED,WATER,GF,0.7U UG/L	4	4	0	0	2	0
49294	NEBURON,RECV,FILTERED,WATER,GF,0.7U UG/L	4	4	0	0	2	0
49295	NAPTHOL,1-,RECV,FILTERED,WATER,GF,0.7U UG/L	4	4	0	0	2	0

Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Parameter Code	Name	Total Obs	01/01/85 to 04/14/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
49296	METHOMYL,RECV,FILTERED,WATER,GF,0.7U UG/L	4	4	0	0	2	0
49297	FENURON,RECV,FILTERED,WATER,GF,0.7U UG/L	4	4	0	0	2	0
49298	ESFENVALERATE,RECV,FILTERED,WATER,GF,0.7U UG/L	4	4	0	0	2	0
49299	CRESOL,O-,RECV,FILTERED,WATER,GF,0.7U UG/L	4	4	0	0	2	0
49300	DIURON, RECV,FILTERED, WATER, GF, 0.7U UG/L	4	4	0	0	2	0
49301	DINOSEB, RECV, FILTERED, WATER, GF, 0.7U UG/L	4	4	0	0	2	0
49302	DICHLORPROP,RECV,FILTERED,WATER,GF,0.7U UG/L	4	4	0	0	2	0
49303	DICHLOBENIL,RECV,FILTERED,WATER,GF,0.7U UG/L	4	4	0	0	2	0
49304	DACTHAL, RECV,FILTERED,WATER,GF,0.7U UG/L	4	4	0	0	2	0
49305	CLOPYRALID,RECV,FILTERED,WATER,GF,0.7U UG/L	4	4	0	0	2	0
49306	CHLOROTHALONIL,RECV,FILTERED,WATER,GF,0.7U UG/L	4	4	0	0	2	0
49307	AMIBEN, RECV,FILTERED,WATER,GF,0.7U UG/L	4	4	0	0	2	0
49308	HYDROXYCARBOFURAN,3-,RECV,FILT,WATER,GF,0.7U UG/L	4	4	0	0	2	0
49309	CARBOFURAN,RECV,FILTERED,WATER,GF,0.7U UG/L	4	4	0	0	2	0
49310	CARBARYL,RECV,FILTERED,WATER,GF,0.7U UG/L	4	4	0	0	2	0
49311	BROMOXYNIL,RECV,FILTERED,WATER,GF,0.7U UG/L	4	4	0	0	2	0
49312	ALDICARB, RECV,FILTERED,WATER,GF,0.7U UG/L	4	4	0	0	2	0
49313	ALDICARB SULFONE,RECV,FILTERED,GF,0.7U UG/L	4	4	0	0	2	0
49314	ALDICARB SULFOXIDE,RECV,FILTERED,GF,0.7U UG/L	4	4	0	0	2	0
49315	ACIFLUORFEN,RECV,FILTERED,WATER,GF,0.7U UG/L	4	4	0	0	2	0
50580	NIOBIUM, DISSOLVED UG/L	38	0	38	0	37	1
70299	SOLIDS, SUSP. - RESIDUE ON EVAP. AT 180 C (MG/L)	11	0	0	11	2	0
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	828	0	16	812	18	9
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	736	0	273	463	25	16
70302	SOLIDS, DISSOLVED-TONS PER DAY	1161	0	254	907	4	1
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	1173	0	255	918	4	1
70326	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .002MM	15	0	0	15	1	0
70327	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .004MM	18	0	0	18	1	0
70328	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .008MM	19	0	0	19	1	0
70329	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .016MM	19	0	0	19	1	0
70330	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .031MM	18	0	0	18	1	0
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	199	3	52	144	6	2
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	122	0	2	120	2	0
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	117	0	0	117	2	0
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	98	0	0	98	2	0
70335	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM	4	0	0	4	2	0
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	39	2	0	37	2	0
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	209	7	27	175	4	0
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	36	7	3	26	1	0
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	210	7	27	176	4	0
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	29	2	0	27	1	0
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	125	3	25	97	4	0
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	116	3	22	91	4	0
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	107	3	20	84	4	0
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	68	2	11	55	4	0
70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	8	0	2	6	3	0
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	60	0	31	29	15	8
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	4	0	4	0	2	0
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	67	0	1	66	4	1
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	117	0	0	117	2	0
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	819	0	55	764	15	11
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	63	0	1	62	5	2
71870	BROMIDE (MG/L AS BR)	91	0	0	91	2	0
71885	IRON (UG/L AS FE)	229	0	0	229	4	1
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	100	8	92	0	3	0
71887	NITROGEN, TOTAL, AS NO3 - MG/L	42	1	41	0	2	0
71890	MERCURY, DISSOLVED (UG/L AS HG)	22	17	0	5	2	0
71900	MERCURY, TOTAL (UG/L AS HG)	25	0	16	9	11	6
72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	287	0	0	287	2	0
72025	DEPTH OF POND OR RESERVOIR IN FEET	21	0	21	0	7	7
74010	IRON, TOTAL (MG/L AS FE)	204	0	0	204	9	8
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	506	90	170	246	7	2
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	298	1	149	148	4	0
80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	18	0	6	12	1	0
80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	18	0	6	12	1	0
80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	18	0	6	12	1	0
80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	18	0	6	12	1	0
80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	18	0	6	12	1	0
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	17	0	5	12	1	0
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	17	0	5	12	1	0
80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	17	0	5	12	1	0

Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Parameter Code	Name	Total Obs	01/01/85 to 04/14/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	15	0	5	10	1	0
80173	BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM	11	0	3	8	1	0
80174	BED MATERIAL SIEVE DIAMETER,% FINER THAN 64.0MM	1	0	1	0	1	0
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	6	0	6	0	2	0
82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	34	31	3	0	1	0
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	20	0	20	0	2	1
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	31	0	31	0	4	3
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	39	31	8	0	2	0
82365	THORIUM, DISSOLVED IN WATER UG/L	38	0	38	0	37	1
82398	SAMPLING METHOD (CODES)	159	140	19	0	3	0
82630	METRIBUZIN (SENCOR), WATER, DISSOLVED UG/L	4	4	0	0	2	0
82660	DIETHYLANILINE, 2, 6-,0.7UM FILT,TOT RECV,WTR UG/L	4	4	0	0	2	0
82661	TRIFLURALINE, 0.7UM FILT,TOT RECV, WATER UG/L	4	4	0	0	2	0
82663	ETHALFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	4	4	0	0	2	0
82664	PHORATE, 0.7 UM FILT, TOT RECV, WATER UG/L	4	4	0	0	2	0
82665	TERBACIL, 0.7 UM FILT, TOT RECV, WATER UG/L	4	4	0	0	2	0
82666	LINURON, 0.7 UM FILT, TOT RECV, WATER UG/L	4	4	0	0	2	0
82667	METHYL PARATHION,0.7 UM FILT,TOT RECV,WATER UG/L	4	4	0	0	2	0
82668	EPTC, 0.7 UM FILT, TOT RECV, WATER UG/L	4	4	0	0	2	0
82669	PEBULATE, 0.7 UM FILT, TOT RECV, WATER UG/L	4	4	0	0	2	0
82670	TEBUTHIURON, 0.7 UM FILT, TOT RECV, WATER UG/L	4	4	0	0	2	0
82671	MOLINATE, 0.7 UM FILT, TOT RECV, WATER UG/L	4	4	0	0	2	0
82672	ETHOPROP, 0.7 UM FILT, TOT RECV, WATER UG/L	4	4	0	0	2	0
82673	BENFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	4	4	0	0	2	0
82674	CARBOFURAN, 0.7 UM FILT, TOT RECV, WATER UG/L	4	4	0	0	2	0
82675	TERBUFOS, 0.7 UM FILT, TOT RECV, WATER UG/L	4	4	0	0	2	0
82676	PRONAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	4	4	0	0	2	0
82677	DISULFOTON, 0.7 UM FILT, TOT RECV, WATER UG/L	4	4	0	0	2	0
82678	TRIALLATE, 0.7 UM FILT, TOT RECV, WATER UG/L	4	4	0	0	2	0
82679	PROPANIL, 0.7 UM FILT, TOT RECV, WATER UG/L	4	4	0	0	2	0
82680	CARBARYL, 0.7 UM FILT, TOT RECV, WATER UG/L	4	4	0	0	2	0
82681	THIOBENCARB, 0.7 UM FILT, TOT RECV, WATER UG/L	4	4	0	0	2	0
82682	DCPA, 0.7 UM FILT, TOT RECV, WATER UG/L	4	4	0	0	2	0
82683	PENDIMETHALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	4	4	0	0	2	0
82684	NAPROPAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	4	4	0	0	2	0
82685	PROPARGITE, 0.7 UM FILT, TOT RECV, WATER UG/L	4	4	0	0	2	0
82686	METHYL AZINPHOS, 0.7 UM FILT, TOT RECV, WATER UG/L	4	4	0	0	2	0
82687	PERMETHRIN, CIS, 0.7 UM FILT, TOT RECV, WATER UG/L	4	4	0	0	2	0
84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	3	2	1	0	3	2
84001	AQUIFER NAME CODE (SEE USGS CATALOG)	3	2	1	0	3	2
85334	TEMPERATURE-DEG F, MINIMUM WATER	430	430	0	0	1	1
85335	TEMPERATURE- DEG F , MAXIMUM WATER	429	429	0	0	1	1

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0006	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/22/68-08/18/69	1	40	
BICA0019	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	11/30/71-11/30/71	0	1	
BICA0029	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/22/68-08/18/69	1	45	
BICA0034	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/21/75-10/17/75	0	7	
BICA0036	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	12/16/68-10/26/70	1	10	
BICA0039	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/05/68-09/08/70	2	179	
BICA0049	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/22/75-10/17/75	0	13	
BICA0065	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/22/70-10/20/72	2	231	
BICA0066	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/05/68-09/08/70	2	395	
BICA0069	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/22/75-10/17/75	0	18	
BICA0070	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/22/70-10/20/72	2	302	
BICA0072	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/22/70-10/20/72	2	348	
BICA0075	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/05/68-09/08/70	2	583	
BICA0084	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/22/75-10/17/75	0	23	
BICA0087	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/22/70-10/20/72	2	458	
BICA0099	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/05/68-09/08/70	2	780	
BICA0113	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/21/70-10/22/72	2	511	
BICA0128	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/22/75-10/17/75	0	24	
BICA0132	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/05/68-09/08/70	2	933	
BICA0136	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/21/70-10/20/72	2	440	
BICA0140	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/22/75-10/17/75	0	22	
BICA0143	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/21/70-10/20/72	2	500	
BICA0172	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/22/75-10/17/75	0	24	
BICA0174	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/05/68-09/08/70	2	1417	
BICA0176	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/21/70-10/20/72	2	607	
BICA0177	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/22/68-08/18/69	1	46	
BICA0034	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	05/21/75-10/17/75	0	6	
BICA0049	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	05/22/75-10/17/75	0	12	
BICA0069	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	05/22/75-10/17/75	0	18	
BICA0084	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	05/22/75-10/17/75	0	23	
BICA0128	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	05/22/75-10/17/75	0	24	
BICA0140	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	05/22/75-10/17/75	0	22	
BICA0172	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	05/22/75-10/17/75	0	24	
BICA0001	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/26/73-11/07/74	1	9	
BICA0002	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	49	424	
BICA0006	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/22/68-08/18/69	1	36	
BICA0007	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/01/76-08/01/76	0	1	
BICA0008	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/76-07/24/76	0	1	
BICA0009	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/01/76-08/01/76	0	1	
BICA0010	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/09/80-04/01/81	0	11	
BICA0011	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/01/76-08/01/76	0	1	
BICA0012	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/31/76-07/31/76	0	1	
BICA0013	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/12/69-05/12/69	0	1	
BICA0015	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/83-08/07/85	2	11	
BICA0017	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/76-07/24/76	0	1	
BICA0018	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/76-07/24/76	0	1	
BICA0019	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/67-04/14/97	29	313	
BICA0020	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/09/76-04/19/78	1	9	
BICA0023	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/09/80-04/01/81	0	11	
BICA0026	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/59-08/23/89	29	82	
BICA0029	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/22/68-08/18/69	1	41	
BICA0030	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/05/76-08/05/76	0	1	
BICA0032	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/84-08/07/85	1	6	
BICA0033	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/76-07/24/76	0	1	
BICA0034	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/21/75-10/17/75	0	6	
BICA0036	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/16/68-12/16/68	0	3	
BICA0037	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/05/76-08/05/76	0	1	
BICA0038	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/31/76-07/31/76	0	1	
BICA0039	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/05/68-11/02/68	0	45	
BICA0040	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/05/76-08/05/76	0	1	
BICA0041	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/31/76-07/31/76	0	1	
BICA0043	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/05/76-08/05/76	0	1	
BICA0044	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/13/70-02/13/70	0	1	
BICA0048	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/31/76-07/31/76	0	1	
BICA0049	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/75-10/17/75	0	12	
BICA0050	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/09/80-11/26/80	0	9	
BICA0054	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/31/76-07/31/76	0	1	
BICA0055	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/84-08/07/85	1	6	
BICA0058	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/31/76-07/31/76	0	1	
BICA0059	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/70-06/10/77	6	16	
BICA0060	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/31/76-07/31/76	0	1	
BICA0064	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/26/88-07/26/88	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0065	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/70-10/20/72	2	231	
BICA0066	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/05/68-11/02/68	0	159	
BICA0067	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/05/74-05/05/74	0	1	
BICA0069	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/75-10/17/75	0	18	
BICA0070	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/70-10/20/72	2	302	
BICA0071	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/06/78-07/06/78	0	1	
BICA0072	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/70-10/20/72	2	348	
BICA0074	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/09/80-11/26/80	0	8	
BICA0075	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/05/68-11/02/68	0	249	
BICA0076	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	0	1	
BICA0078	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	0	1	
BICA0081	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	0	1	
BICA0082	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	0	1	
BICA0084	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/75-10/17/75	0	23	
BICA0085	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	0	1	
BICA0086	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	0	1	
BICA0087	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/70-10/20/72	2	458	
BICA0088	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/30/78-06/30/78	0	1	
BICA0089	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/30/78-06/30/78	0	1	
BICA0090	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/15/78-07/15/78	0	1	
BICA0091	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/30/78-06/30/78	0	1	
BICA0092	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/15/78-07/15/78	0	1	
BICA0093	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/30/78-06/30/78	0	1	
BICA0094	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/30/78-06/30/78	0	1	
BICA0095	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	0	1	
BICA0096	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/15/78-07/15/78	0	1	
BICA0097	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/08/78-10/08/78	0	1	
BICA0098	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	0	1	
BICA0099	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/05/68-11/02/68	0	337	
BICA0101	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	0	1	
BICA0102	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	0	1	
BICA0103	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	0	1	
BICA0104	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/08/78-10/08/78	0	1	
BICA0105	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/08/78-10/08/78	0	1	
BICA0106	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/30/78-06/30/78	0	1	
BICA0107	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/78-10/07/78	0	1	
BICA0108	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/30/78-06/30/78	0	1	
BICA0109	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/30/78-06/30/78	0	1	
BICA0110	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	0	1	
BICA0111	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/14/78-04/14/78	0	1	
BICA0112	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/78-07/14/78	0	1	
BICA0113	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/21/70-10/22/72	2	511	
BICA0114	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/78-07/14/78	0	1	
BICA0115	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/05/74-05/05/74	0	1	
BICA0116	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/08/78-10/08/78	0	1	
BICA0117	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/08/78-10/08/78	0	1	
BICA0118	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/78-07/14/78	0	1	
BICA0119	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/78-07/14/78	0	1	
BICA0120	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/74-05/04/74	0	1	
BICA0121	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/78-07/14/78	0	1	
BICA0122	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/78-07/14/78	0	1	
BICA0123	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/05/74-05/05/74	0	1	
BICA0125	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/08/78-10/08/78	0	1	
BICA0126	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/14/78-10/14/78	0	1	
BICA0127	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/74-05/04/74	0	1	
BICA0128	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/75-10/17/75	0	24	
BICA0130	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/78-10/15/78	0	1	
BICA0131	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/78-10/15/78	0	1	
BICA0132	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/05/68-11/02/68	0	410	
BICA0133	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/79-10/15/79	0	1	
BICA0134	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/74-05/04/74	0	1	
BICA0135	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	0	1	
BICA0136	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/21/70-10/20/72	2	440	
BICA0137	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/78-10/15/78	0	1	
BICA0138	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/08/78-10/08/78	0	1	
BICA0139	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/01/76-07/06/77	1	7	
BICA0140	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/75-10/17/75	0	22	
BICA0141	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	0	1	
BICA0143	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/21/70-10/20/72	2	500	
BICA0144	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/29/78-10/29/78	0	1	
BICA0145	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	0	1	
BICA0146	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/78-10/15/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0147	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/78-10/29/78	0	2	
BICA0150	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/78-10/15/78	0	1	
BICA0151	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	0	1	
BICA0154	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	0	1	
BICA0155	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	0	1	
BICA0156	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	0	1	
BICA0157	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/78-10/15/78	0	1	
BICA0160	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/78-10/15/78	0	1	
BICA0161	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/29/78-10/29/78	0	1	
BICA0163	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	0	1	
BICA0166	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/78-10/15/78	0	1	
BICA0167	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/29/78-10/29/78	0	1	
BICA0168	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/14/78-10/14/78	0	1	
BICA0171	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/17/78-10/17/78	0	1	
BICA0172	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/75-10/17/75	0	24	
BICA0174	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/05/68-09/08/70	2	1286	
BICA0176	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/21/70-10/20/72	2	607	
BICA0177	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/22/68-08/11/69	1	38	
BICA0179	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	0	1	
BICA0180	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	28	258	
BICA0181	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/11/77-06/07/77	0	3	
BICA0183	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	0	1	
BICA0184	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/11/97-02/11/97	0	1	
BICA0185	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/78-10/15/78	0	1	
BICA0186	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/01/76-07/06/77	1	6	
BICA0187	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/29/78-10/29/78	0	1	
BICA0188	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/29/78-10/29/78	0	1	
BICA0189	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	0	1	
BICA0190	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/10/97-02/10/97	0	1	
BICA0191	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	0	1	
BICA0192	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	0	1	
BICA0193	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/78-10/15/78	0	1	
BICA0194	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/78-10/15/78	0	1	
BICA0195	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/10/97-02/10/97	0	1	
BICA0196	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	0	1	
BICA0197	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/78-11/05/78	0	1	
BICA0198	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/78-11/05/78	0	1	
BICA0199	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/20/73-04/20/83	9	9	
BICA0201	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/78-11/05/78	0	1	
BICA0202	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/78-11/05/78	0	1	
BICA0203	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/78-11/05/78	0	1	
BICA0204	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/07/78-11/07/78	0	1	
BICA0205	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/78-11/05/78	0	1	
BICA0206	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/78-11/05/78	0	1	
BICA0207	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/19/73-11/19/73	0	1	
BICA0208	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/20/73-12/20/73	0	1	
BICA0209	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/30/76-04/20/83	6	8	
BICA0210	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/16/76-09/16/76	0	1	
BICA0052	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	03/02/87-11/15/88	1	185	
BICA0061	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	05/14/70-05/14/70	0	1	
BICA0062	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	05/14/70-05/14/70	0	1	
BICA0063	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	05/14/70-05/14/70	0	1	
BICA0073	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	03/02/87-05/15/91	4	72	
BICA0077	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/05/68-04/05/68	0	1	
BICA0079	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/05/68-04/05/68	0	1	
BICA0080	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/05/68-04/05/68	0	1	
BICA0083	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/05/68-04/05/68	0	1	
BICA0152	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/15/67-04/08/70	2	2	
BICA0153	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/15/67-04/08/70	2	2	
BICA0158	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/08/70-04/08/70	0	1	
BICA0159	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/08/70-04/08/70	0	1	
BICA0162	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/08/70-04/08/70	0	1	
BICA0165	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/15/67-04/08/70	2	2	
BICA0169	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	03/21/69-06/16/69	0	2	
BICA0170	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/15/67-04/08/70	2	2	
BICA0182	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	03/06/68-09/02/68	0	3	
BICA0002	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/02/75-04/14/97	21	164	
BICA0019	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/74-04/14/97	22	142	
BICA0026	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	12/17/81-08/23/89	7	42	
BICA0065	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/17/70-11/04/70	0	5	
BICA0070	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/16/70-11/12/71	1	5	
BICA0072	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/16/70-11/12/71	1	4	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0087	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/16/70-05/16/72	1	5	
BICA0113	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/21/70-09/08/71	1	9	
BICA0136	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/18/70-09/28/70	0	2	
BICA0143	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/18/70-05/16/72	1	4	
BICA0176	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/21/70-10/20/72	2	22	
BICA0180	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/69-09/03/96	27	120	
BICA0184	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/11/97-02/11/97	0	1	
BICA0190	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/10/97-02/10/97	0	1	
BICA0195	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/10/97-02/10/97	0	1	
BICA0002	No	00025	BAROMETRIC PRESSURE (MM OF HG)	02/16/84-04/14/97	13	31	
BICA0019	No	00025	BAROMETRIC PRESSURE (MM OF HG)	03/27/96-04/14/97	1	3	
BICA0026	No	00025	BAROMETRIC PRESSURE (MM OF HG)	10/04/82-08/23/89	6	36	
BICA0002	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/07/81-04/14/97	15	153	
BICA0019	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/07/81-04/14/97	15	129	
BICA0026	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/17/81-08/23/89	7	43	
BICA0064	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/26/88-07/26/88	0	1	
BICA0067	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	05/05/74-05/05/74	0	1	
BICA0115	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	05/05/74-05/05/74	0	1	
BICA0120	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	05/04/74-05/04/74	0	1	
BICA0123	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	05/05/74-05/05/74	0	1	
BICA0127	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	05/04/74-05/04/74	0	1	
BICA0134	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	05/04/74-05/04/74	0	1	
BICA0139	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/01/76-07/06/77	1	7	
BICA0148	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	03/02/84-03/02/84	0	1	
BICA0149	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	03/02/84-03/02/84	0	1	
BICA0164	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	03/02/84-03/02/84	0	1	
BICA0178	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/24/76-10/24/76	0	1	
BICA0180	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	01/01/68-09/03/96	28	124	
BICA0181	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/01/76-07/06/77	1	7	
BICA0184	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	02/11/97-02/11/97	0	1	
BICA0186	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/01/76-07/06/77	1	7	
BICA0190	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	02/10/97-02/10/97	0	1	
BICA0195	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	02/10/97-02/10/97	0	1	
BICA0199	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/20/73-04/20/83	9	9	
BICA0207	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	11/19/73-11/19/73	0	1	
BICA0208	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/20/73-12/20/73	0	1	
BICA0209	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	06/30/76-04/20/83	6	8	
BICA0210	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	09/16/76-09/16/76	0	1	
BICA0002	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/25/78-04/14/97	18	171	
BICA0019	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/23/78-04/14/97	18	164	
BICA0026	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/25/78-08/23/89	10	52	
BICA0064	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/26/88-07/26/88	0	1	
BICA0180	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	01/01/68-09/03/96	28	157	
BICA0184	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	02/11/97-02/11/97	0	1	
BICA0190	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	02/10/97-02/10/97	0	1	
BICA0195	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	02/10/97-02/10/97	0	1	
BICA0180	Yes	00041	WEATHER (WMO CODE 4501)	10/18/79-08/25/81	1	22	
BICA0002	No	00042	ALTITUDE IN FEET ABOVE MEAN SEA LEVEL	01/01/01-01/01/01	0	1	
BICA0002	No	00049	SURFACE AREA IN SQUARE MILES	10/01/49-09/22/61	11	218	
BICA0026	No	00049	SURFACE AREA IN SQUARE MILES	08/20/58-09/09/62	4	69	
BICA0061	No	00058	FLOW, RATE GALLONS/MIN	05/14/70-05/14/70	0	1	
BICA0062	No	00058	FLOW, RATE GALLONS/MIN	05/14/70-05/14/70	0	1	
BICA0063	No	00058	FLOW, RATE GALLONS/MIN	05/14/70-05/14/70	0	1	
BICA0077	Yes	00058	FLOW, RATE GALLONS/MIN	04/05/68-04/05/68	0	1	
BICA0079	Yes	00058	FLOW, RATE GALLONS/MIN	04/05/68-04/05/68	0	1	
BICA0080	Yes	00058	FLOW, RATE GALLONS/MIN	04/05/68-04/05/68	0	1	
BICA0083	Yes	00058	FLOW, RATE GALLONS/MIN	04/05/68-04/05/68	0	1	
BICA0002	No	00060	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	32	490	T,A,S
BICA0019	No	00060	FLOW, STREAM, MEAN DAILY CFS	10/01/66-02/04/79	12	211	
BICA0026	No	00060	FLOW, STREAM, MEAN DAILY CFS	10/01/59-09/16/68	8	173	
BICA0059	No	00060	FLOW, STREAM, MEAN DAILY CFS	07/22/70-09/08/73	3	9	
BICA0180	Yes	00060	FLOW, STREAM, MEAN DAILY CFS	10/01/66-09/10/74	7	176	
BICA0001	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	04/17/73-09/20/73	0	3	
BICA0002	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/49-04/14/97	47	417	
BICA0019	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-04/14/97	23	272	
BICA0021	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	02/05/75-12/16/75	0	14	
BICA0022	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	02/03/75-02/05/76	1	6	
BICA0026	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/20/58-08/23/89	31	113	
BICA0059	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/20/74-06/10/77	2	8	
BICA0139	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/01/76-07/06/77	1	7	
BICA0180	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	22	214	
BICA0181	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/01/76-07/06/77	1	6	

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Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0184	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	02/11/97-02/11/97	0	1	
BICA0186	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/01/76-07/06/77	1	7	
BICA0190	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	02/10/97-02/10/97	0	1	
BICA0195	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	02/10/97-02/10/97	0	1	
BICA0199	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	12/20/73-04/20/83	9	8	
BICA0208	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	12/20/73-12/20/73	0	1	
BICA0209	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/30/76-04/20/83	6	8	
BICA0002	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	09/29/70-03/08/77	6	15	
BICA0180	Yes	00065	STAGE, STREAM (FEET)	10/10/90-09/03/96	5	52	
BICA0002	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/10/73-07/29/80	6	78	
BICA0006	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/22/68-08/18/69	1	39	
BICA0019	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	11/12/78-09/02/80	1	19	
BICA0029	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/22/68-08/18/69	1	44	
BICA0039	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/05/68-07/28/69	1	12	
BICA0066	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/05/68-07/28/69	1	33	
BICA0075	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/05/68-07/28/69	1	53	
BICA0099	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/05/68-07/28/69	1	74	
BICA0132	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/05/68-07/28/69	1	90	
BICA0174	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/05/68-07/28/69	1	142	
BICA0177	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/22/68-08/18/69	1	44	
BICA0180	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/23/69-06/02/70	0	7	
BICA0199	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/20/83-04/20/83	0	1	
BICA0209	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/20/83-04/20/83	0	1	
BICA0034	Yes	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	05/21/75-10/17/75	0	6	
BICA0039	Yes	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	09/09/68-09/08/70	1	90	
BICA0049	Yes	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	05/22/75-10/17/75	0	12	
BICA0066	Yes	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	09/09/68-09/08/70	1	221	
BICA0069	Yes	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	05/22/75-10/17/75	0	18	
BICA0075	Yes	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	09/09/68-09/08/70	1	332	
BICA0084	Yes	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	05/22/75-10/17/75	0	23	
BICA0099	Yes	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	09/09/68-09/08/70	1	473	
BICA0128	Yes	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	05/22/75-10/17/75	0	24	
BICA0132	Yes	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	09/09/68-09/08/70	1	543	
BICA0140	Yes	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	05/22/75-10/17/75	0	22	
BICA0172	Yes	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	05/22/75-10/17/75	0	24	
BICA0174	Yes	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	09/09/68-09/08/70	1	766	
BICA0002	No	00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	11/19/69-06/30/70	0	3	
BICA0002	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/04/80-12/17/80	0	3	
BICA0019	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/07/80-12/17/81	1	14	
BICA0020	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/09/76-04/19/78	1	8	
BICA0026	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/10/82-09/08/83	1	16	
BICA0034	Yes	00077	TRANSPARENCY, SECCHI DISC (INCHES)	08/29/75-10/17/75	0	2	
BICA0049	Yes	00077	TRANSPARENCY, SECCHI DISC (INCHES)	05/22/75-10/17/75	0	3	
BICA0069	Yes	00077	TRANSPARENCY, SECCHI DISC (INCHES)	05/22/75-10/17/75	0	3	
BICA0084	Yes	00077	TRANSPARENCY, SECCHI DISC (INCHES)	05/22/75-10/17/75	0	3	
BICA0128	Yes	00077	TRANSPARENCY, SECCHI DISC (INCHES)	05/22/75-10/17/75	0	3	
BICA0140	Yes	00077	TRANSPARENCY, SECCHI DISC (INCHES)	05/22/75-10/17/75	0	3	
BICA0172	Yes	00077	TRANSPARENCY, SECCHI DISC (INCHES)	05/22/75-10/17/75	0	3	
BICA0031	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/29/75-10/17/75	0	2	
BICA0042	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/21/75-10/17/75	0	3	
BICA0050	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	06/09/80-11/26/80	0	9	
BICA0068	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/21/75-10/17/75	0	3	
BICA0074	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/09/80-11/26/80	0	8	
BICA0100	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/21/75-10/17/75	0	3	
BICA0129	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/21/75-10/17/75	0	3	
BICA0142	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/21/75-10/17/75	0	3	
BICA0173	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/21/75-10/17/75	0	3	
BICA0002	No	00080	COLOR (PLATINUM-COBALT UNITS)	11/01/56-11/19/69	13	146	
BICA0019	No	00080	COLOR (PLATINUM-COBALT UNITS)	10/01/66-08/11/67	0	23	
BICA0026	No	00080	COLOR (PLATINUM-COBALT UNITS)	08/20/58-05/12/66	7	112	
BICA0152	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	12/15/67-12/15/67	0	1	
BICA0153	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	12/15/67-12/15/67	0	1	
BICA0165	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	12/15/67-12/15/67	0	1	
BICA0169	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	07/29/68-06/16/69	0	3	
BICA0170	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	12/15/67-12/15/67	0	1	
BICA0180	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	10/01/66-12/01/70	4	66	
BICA0182	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	03/06/68-09/02/68	0	4	
BICA0006	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/22/68-08/18/69	1	38	
BICA0029	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/22/68-08/18/69	1	42	
BICA0034	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/21/75-10/17/75	0	6	
BICA0039	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/05/68-11/02/68	0	45	
BICA0049	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM 25C)	05/22/75-10/17/75	0	12	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0066	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/05/68-11/02/68	0	158	
BICA0069	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/22/75-10/17/75	0	18	
BICA0075	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/05/68-11/02/68	0	247	
BICA0084	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/22/75-10/17/75	0	22	
BICA0099	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/05/68-11/02/68	0	336	
BICA0128	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/22/75-10/17/75	0	24	
BICA0132	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/05/68-11/02/68	0	408	
BICA0139	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/01/76-07/06/77	1	7	
BICA0140	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/22/75-10/17/75	0	22	
BICA0172	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/22/75-10/17/75	0	24	
BICA0174	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/05/68-09/08/70	2	1260	
BICA0177	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/22/68-08/18/69	1	45	
BICA0181	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/01/76-07/06/77	1	5	
BICA0186	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/01/76-07/06/77	1	7	
BICA0199	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/31/76-07/06/77	0	5	
BICA0209	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/30/76-07/14/77	1	7	
BICA0002	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	50	664	T,A,S
BICA0007	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/01/76-08/01/76	0	1	
BICA0008	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/24/76-07/24/76	0	1	
BICA0009	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/01/76-08/01/76	0	1	
BICA0010	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/09/80-11/26/80	0	8	
BICA0011	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/01/76-08/01/76	0	1	
BICA0012	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/31/76-07/31/76	0	1	
BICA0017	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/24/76-07/24/76	0	1	
BICA0018	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/24/76-07/24/76	0	1	
BICA0019	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-04/14/97	30	381	T,A,S
BICA0020	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/09/76-04/19/78	1	8	
BICA0023	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/09/80-11/26/80	0	8	
BICA0024	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/17/76-09/17/76	0	1	
BICA0026	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/58-08/23/89	31	206	T,S
BICA0028	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/16/76-09/16/76	0	1	
BICA0030	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/05/76-08/05/76	0	1	
BICA0033	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/24/76-07/24/76	0	1	
BICA0037	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/05/76-08/05/76	0	1	
BICA0038	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/31/76-07/31/76	0	1	
BICA0040	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/05/76-08/05/76	0	1	
BICA0041	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/31/76-07/31/76	0	1	
BICA0043	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/05/76-08/05/76	0	1	
BICA0048	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/31/76-07/31/76	0	1	
BICA0050	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/09/80-11/26/80	0	7	
BICA0054	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/31/76-07/31/76	0	1	
BICA0057	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/15/56-07/15/56	0	1	
BICA0058	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/31/76-07/31/76	0	1	
BICA0060	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/31/76-07/31/76	0	1	
BICA0061	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/27/57-05/14/70	12	2	
BICA0062	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/14/70-05/14/70	0	1	
BICA0063	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/14/70-05/14/70	0	1	
BICA0064	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/26/88-07/26/88	0	1	
BICA0067	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/05/74-05/05/74	0	1	
BICA0074	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/09/80-11/26/80	0	6	
BICA0076	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/78-07/05/78	0	1	
BICA0078	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/78-07/05/78	0	1	
BICA0081	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/78-07/05/78	0	1	
BICA0082	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/78-07/05/78	0	1	
BICA0085	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/78-07/05/78	0	1	
BICA0086	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/78-07/05/78	0	1	
BICA0088	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/30/78-06/30/78	0	1	
BICA0089	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/30/78-06/30/78	0	1	
BICA0090	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/15/78-07/15/78	0	1	
BICA0091	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/30/78-06/30/78	0	1	
BICA0092	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/15/78-07/15/78	0	1	
BICA0093	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/30/78-06/30/78	0	1	
BICA0094	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/30/78-06/30/78	0	1	
BICA0095	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/78-07/05/78	0	1	
BICA0096	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/15/78-07/15/78	0	1	
BICA0097	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/08/78-10/08/78	0	1	
BICA0098	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/78-07/05/78	0	1	
BICA0101	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/78-07/05/78	0	1	
BICA0102	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/78-07/05/78	0	1	
BICA0103	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/78-07/05/78	0	1	
BICA0104	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/08/78-10/08/78	0	1	
BICA0105	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM 25C)	10/08/78-10/08/78	0	1	

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Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0106	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/30/78-06/30/78	0	1	
BICA0107	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/78-10/07/78	0	1	
BICA0108	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/30/78-06/30/78	0	1	
BICA0109	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/30/78-06/30/78	0	1	
BICA0110	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/78-07/05/78	0	1	
BICA0115	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/05/74-05/05/74	0	1	
BICA0116	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/08/78-10/08/78	0	1	
BICA0117	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/08/78-10/08/78	0	1	
BICA0120	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/74-05/04/74	0	1	
BICA0123	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/05/74-05/05/74	0	1	
BICA0125	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/08/78-10/08/78	0	1	
BICA0126	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/14/78-10/14/78	0	1	
BICA0127	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/74-05/04/74	0	1	
BICA0130	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/15/78-10/15/78	0	1	
BICA0131	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/15/78-10/15/78	0	1	
BICA0133	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/15/79-10/15/79	0	1	
BICA0134	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/74-05/04/74	0	1	
BICA0135	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	0	1	
BICA0138	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/08/78-10/08/78	0	1	
BICA0139	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/11/77-07/06/77	0	4	
BICA0141	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	0	1	
BICA0144	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/29/78-10/29/78	0	1	
BICA0145	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	0	1	
BICA0146	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/15/78-10/15/78	0	1	
BICA0147	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/15/78-10/29/78	0	2	
BICA0150	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/15/78-10/15/78	0	1	
BICA0151	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	0	1	
BICA0152	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/15/67-04/08/70	2	2	
BICA0153	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/15/67-04/08/70	2	2	
BICA0154	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	0	1	
BICA0155	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	0	1	
BICA0156	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	0	1	
BICA0157	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/15/78-10/15/78	0	1	
BICA0158	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/08/70-04/08/70	0	1	
BICA0159	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/08/70-04/08/70	0	1	
BICA0160	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/15/78-10/15/78	0	1	
BICA0161	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/29/78-10/29/78	0	1	
BICA0162	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/08/70-04/08/70	0	1	
BICA0163	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	0	1	
BICA0165	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/15/67-04/08/70	2	2	
BICA0166	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/15/78-10/15/78	0	1	
BICA0167	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/29/78-10/29/78	0	1	
BICA0168	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/14/78-10/14/78	0	1	
BICA0169	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/29/68-06/16/69	0	3	
BICA0170	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/15/67-04/08/70	2	2	
BICA0171	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/17/78-10/17/78	0	1	
BICA0179	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	0	1	
BICA0180	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	29	341	A,S
BICA0182	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/06/68-09/02/68	0	4	
BICA0183	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	0	1	
BICA0184	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/97-02/11/97	0	1	
BICA0185	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/15/78-10/15/78	0	1	
BICA0186	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/11/77-07/06/77	0	4	
BICA0187	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/29/78-10/29/78	0	1	
BICA0188	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/29/78-10/29/78	0	1	
BICA0189	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	0	1	
BICA0190	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/10/97-02/10/97	0	1	
BICA0191	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	0	1	
BICA0192	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	0	1	
BICA0193	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/15/78-10/15/78	0	1	
BICA0194	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/15/78-10/15/78	0	1	
BICA0195	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/10/97-02/10/97	0	1	
BICA0196	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	0	1	
BICA0197	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/05/78-11/05/78	0	1	
BICA0198	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/05/78-11/05/78	0	1	
BICA0199	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/20/73-04/20/83	9	8	
BICA0200	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/19/79-01/19/79	0	1	
BICA0201	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/05/78-11/05/78	0	1	
BICA0202	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/05/78-11/05/78	0	1	
BICA0203	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/05/78-11/05/78	0	1	
BICA0204	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/07/78-11/07/78	0	1	
BICA0205	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM 25C)	11/05/78-11/05/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0206	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/05/78-11/05/78	0	1	
BICA0207	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/19/73-11/19/73	0	1	
BICA0208	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/20/73-12/20/73	0	1	
BICA0209	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/12/77-04/20/83	6	5	
BICA0210	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/16/76-09/16/76	0	1	
BICA0174	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/05/68-11/02/68	0	91	
BICA0001	No	00300	OXYGEN, DISSOLVED MG/L	02/26/73-12/11/74	1	11	
BICA0002	No	00300	OXYGEN, DISSOLVED MG/L	08/29/69-04/14/97	27	122	T,S
BICA0013	No	00300	OXYGEN, DISSOLVED MG/L	05/12/69-05/12/69	0	1	
BICA0019	No	00300	OXYGEN, DISSOLVED MG/L	11/12/78-04/14/97	18	38	
BICA0020	No	00300	OXYGEN, DISSOLVED MG/L	06/09/76-04/19/78	1	9	
BICA0026	No	00300	OXYGEN, DISSOLVED MG/L	02/10/82-08/23/89	7	42	
BICA0034	Yes	00300	OXYGEN, DISSOLVED MG/L	05/21/75-10/17/75	0	6	
BICA0036	Yes	00300	OXYGEN, DISSOLVED MG/L	12/16/68-04/15/69	0	4	
BICA0044	Yes	00300	OXYGEN, DISSOLVED MG/L	02/13/70-02/13/70	0	1	
BICA0049	Yes	00300	OXYGEN, DISSOLVED MG/L	05/22/75-10/17/75	0	12	
BICA0061	No	00300	OXYGEN, DISSOLVED MG/L	05/27/57-05/27/57	0	1	
BICA0065	Yes	00300	OXYGEN, DISSOLVED MG/L	05/22/70-12/02/70	0	24	
BICA0069	Yes	00300	OXYGEN, DISSOLVED MG/L	05/22/75-10/17/75	0	18	
BICA0070	Yes	00300	OXYGEN, DISSOLVED MG/L	05/22/70-11/04/70	0	21	
BICA0072	Yes	00300	OXYGEN, DISSOLVED MG/L	05/22/70-11/04/70	0	28	
BICA0084	Yes	00300	OXYGEN, DISSOLVED MG/L	05/22/75-10/17/75	0	23	
BICA0087	Yes	00300	OXYGEN, DISSOLVED MG/L	05/22/70-11/04/70	0	29	
BICA0113	Yes	00300	OXYGEN, DISSOLVED MG/L	05/21/70-12/02/70	0	34	
BICA0128	Yes	00300	OXYGEN, DISSOLVED MG/L	05/22/75-10/17/75	0	23	
BICA0136	Yes	00300	OXYGEN, DISSOLVED MG/L	05/21/70-11/03/70	0	30	
BICA0139	No	00300	OXYGEN, DISSOLVED MG/L	07/01/76-07/06/77	1	6	
BICA0140	Yes	00300	OXYGEN, DISSOLVED MG/L	05/22/75-10/17/75	0	22	
BICA0143	Yes	00300	OXYGEN, DISSOLVED MG/L	06/18/70-11/03/70	0	23	
BICA0172	Yes	00300	OXYGEN, DISSOLVED MG/L	05/22/75-10/17/75	0	24	
BICA0176	Yes	00300	OXYGEN, DISSOLVED MG/L	05/21/70-12/02/70	0	37	
BICA0180	Yes	00300	OXYGEN, DISSOLVED MG/L	07/23/69-04/20/70	0	6	
BICA0181	Yes	00300	OXYGEN, DISSOLVED MG/L	07/01/76-07/06/77	1	5	
BICA0186	No	00300	OXYGEN, DISSOLVED MG/L	07/01/76-07/06/77	1	6	
BICA0199	No	00300	OXYGEN, DISSOLVED MG/L	01/12/77-07/06/77	0	4	
BICA0209	No	00300	OXYGEN, DISSOLVED MG/L	06/30/76-07/14/77	1	7	
BICA0026	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	10/04/82-06/06/83	0	7	
BICA0002	No	00310	BOD, 5 DAY, 20 DEG C MG/L	11/19/69-10/31/73	3	6	
BICA0005	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/75-09/18/75	0	1	
BICA0180	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	07/23/69-06/02/70	0	7	
BICA0001	No	00400	PH (STANDARD UNITS)	02/26/73-12/11/74	1	11	
BICA0002	No	00400	PH (STANDARD UNITS)	03/26/47-04/14/97	50	514	T,A,S
BICA0007	No	00400	PH (STANDARD UNITS)	08/01/76-08/01/76	0	1	
BICA0008	Yes	00400	PH (STANDARD UNITS)	07/24/76-07/24/76	0	1	
BICA0009	No	00400	PH (STANDARD UNITS)	08/01/76-08/01/76	0	1	
BICA0010	Yes	00400	PH (STANDARD UNITS)	06/09/80-04/01/81	0	10	
BICA0011	No	00400	PH (STANDARD UNITS)	08/01/76-08/01/76	0	1	
BICA0012	No	00400	PH (STANDARD UNITS)	07/31/76-07/31/76	0	1	
BICA0013	No	00400	PH (STANDARD UNITS)	05/12/69-05/12/69	0	1	
BICA0015	No	00400	PH (STANDARD UNITS)	02/15/83-08/07/85	2	10	
BICA0017	No	00400	PH (STANDARD UNITS)	07/24/76-07/24/76	0	1	
BICA0018	No	00400	PH (STANDARD UNITS)	07/24/76-07/24/76	0	1	
BICA0019	No	00400	PH (STANDARD UNITS)	10/01/66-04/14/97	30	234	T,S
BICA0020	No	00400	PH (STANDARD UNITS)	06/09/76-04/19/78	1	9	
BICA0023	No	00400	PH (STANDARD UNITS)	06/09/80-04/01/81	0	10	
BICA0026	No	00400	PH (STANDARD UNITS)	08/20/58-08/23/89	31	206	T,S
BICA0030	No	00400	PH (STANDARD UNITS)	08/05/76-08/05/76	0	1	
BICA0032	Yes	00400	PH (STANDARD UNITS)	06/13/84-08/07/85	1	6	
BICA0033	No	00400	PH (STANDARD UNITS)	07/24/76-07/24/76	0	1	
BICA0034	Yes	00400	PH (STANDARD UNITS)	05/21/75-10/17/75	0	6	
BICA0036	Yes	00400	PH (STANDARD UNITS)	12/16/68-10/26/70	1	10	
BICA0037	No	00400	PH (STANDARD UNITS)	08/05/76-08/05/76	0	1	
BICA0038	No	00400	PH (STANDARD UNITS)	07/31/76-07/31/76	0	1	
BICA0040	No	00400	PH (STANDARD UNITS)	08/05/76-08/05/76	0	1	
BICA0041	No	00400	PH (STANDARD UNITS)	07/31/76-07/31/76	0	1	
BICA0043	No	00400	PH (STANDARD UNITS)	08/05/76-08/05/76	0	1	
BICA0048	No	00400	PH (STANDARD UNITS)	07/31/76-07/31/76	0	1	
BICA0049	Yes	00400	PH (STANDARD UNITS)	05/22/75-10/17/75	0	12	
BICA0050	Yes	00400	PH (STANDARD UNITS)	06/09/80-11/26/80	0	8	
BICA0054	No	00400	PH (STANDARD UNITS)	07/31/76-07/31/76	0	1	
BICA0055	Yes	00400	PH (STANDARD UNITS)	06/13/84-08/07/85	1	6	
BICA0058	No	00400	PH (STANDARD UNITS)	07/31/76-07/31/76	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0060	No	00400	PH (STANDARD UNITS)	07/31/76-07/31/76	0	1	
BICA0061	No	00400	PH (STANDARD UNITS)	05/27/57-05/27/57	0	1	
BICA0064	No	00400	PH (STANDARD UNITS)	07/26/88-07/26/88	0	1	
BICA0069	Yes	00400	PH (STANDARD UNITS)	05/22/75-10/17/75	0	18	
BICA0071	Yes	00400	PH (STANDARD UNITS)	07/06/78-07/06/78	0	1	
BICA0074	Yes	00400	PH (STANDARD UNITS)	07/09/80-11/26/80	0	7	
BICA0076	Yes	00400	PH (STANDARD UNITS)	07/05/78-07/05/78	0	1	
BICA0078	Yes	00400	PH (STANDARD UNITS)	07/05/78-07/05/78	0	1	
BICA0081	Yes	00400	PH (STANDARD UNITS)	07/05/78-07/05/78	0	1	
BICA0082	Yes	00400	PH (STANDARD UNITS)	07/05/78-07/05/78	0	1	
BICA0084	Yes	00400	PH (STANDARD UNITS)	05/22/75-10/17/75	0	23	
BICA0085	Yes	00400	PH (STANDARD UNITS)	07/05/78-07/05/78	0	1	
BICA0086	Yes	00400	PH (STANDARD UNITS)	07/05/78-07/05/78	0	1	
BICA0088	Yes	00400	PH (STANDARD UNITS)	06/30/78-06/30/78	0	1	
BICA0089	Yes	00400	PH (STANDARD UNITS)	06/30/78-06/30/78	0	1	
BICA0090	No	00400	PH (STANDARD UNITS)	07/15/78-07/15/78	0	1	
BICA0091	No	00400	PH (STANDARD UNITS)	06/30/78-06/30/78	0	1	
BICA0092	No	00400	PH (STANDARD UNITS)	07/15/78-07/15/78	0	1	
BICA0093	No	00400	PH (STANDARD UNITS)	06/30/78-06/30/78	0	1	
BICA0094	No	00400	PH (STANDARD UNITS)	06/30/78-06/30/78	0	1	
BICA0095	No	00400	PH (STANDARD UNITS)	07/05/78-07/05/78	0	1	
BICA0096	No	00400	PH (STANDARD UNITS)	07/15/78-07/15/78	0	1	
BICA0097	No	00400	PH (STANDARD UNITS)	10/08/78-10/08/78	0	1	
BICA0098	No	00400	PH (STANDARD UNITS)	07/05/78-07/05/78	0	1	
BICA0101	No	00400	PH (STANDARD UNITS)	07/05/78-07/05/78	0	1	
BICA0102	No	00400	PH (STANDARD UNITS)	07/05/78-07/05/78	0	1	
BICA0103	No	00400	PH (STANDARD UNITS)	07/05/78-07/05/78	0	1	
BICA0104	No	00400	PH (STANDARD UNITS)	10/08/78-10/08/78	0	1	
BICA0105	No	00400	PH (STANDARD UNITS)	10/08/78-10/08/78	0	1	
BICA0106	No	00400	PH (STANDARD UNITS)	06/30/78-06/30/78	0	1	
BICA0107	No	00400	PH (STANDARD UNITS)	10/07/78-10/07/78	0	1	
BICA0108	No	00400	PH (STANDARD UNITS)	06/30/78-06/30/78	0	1	
BICA0109	No	00400	PH (STANDARD UNITS)	06/30/78-06/30/78	0	1	
BICA0110	No	00400	PH (STANDARD UNITS)	07/05/78-07/05/78	0	1	
BICA0111	No	00400	PH (STANDARD UNITS)	04/14/78-04/14/78	0	1	
BICA0112	No	00400	PH (STANDARD UNITS)	07/14/78-07/14/78	0	1	
BICA0114	No	00400	PH (STANDARD UNITS)	07/14/78-07/14/78	0	1	
BICA0116	No	00400	PH (STANDARD UNITS)	10/08/78-10/08/78	0	1	
BICA0117	No	00400	PH (STANDARD UNITS)	10/08/78-10/08/78	0	1	
BICA0118	No	00400	PH (STANDARD UNITS)	07/14/78-07/14/78	0	1	
BICA0119	No	00400	PH (STANDARD UNITS)	07/14/78-07/14/78	0	1	
BICA0121	No	00400	PH (STANDARD UNITS)	07/14/78-07/14/78	0	1	
BICA0122	No	00400	PH (STANDARD UNITS)	07/14/78-07/14/78	0	1	
BICA0125	No	00400	PH (STANDARD UNITS)	10/08/78-10/08/78	0	1	
BICA0126	No	00400	PH (STANDARD UNITS)	10/14/78-10/14/78	0	1	
BICA0128	Yes	00400	PH (STANDARD UNITS)	05/22/75-10/17/75	0	24	
BICA0130	No	00400	PH (STANDARD UNITS)	10/15/78-10/15/78	0	1	
BICA0131	No	00400	PH (STANDARD UNITS)	10/15/78-10/15/78	0	1	
BICA0133	No	00400	PH (STANDARD UNITS)	10/15/79-10/15/79	0	1	
BICA0135	No	00400	PH (STANDARD UNITS)	01/20/79-01/20/79	0	1	
BICA0137	No	00400	PH (STANDARD UNITS)	10/15/78-10/15/78	0	1	
BICA0138	No	00400	PH (STANDARD UNITS)	10/08/78-10/08/78	0	1	
BICA0139	No	00400	PH (STANDARD UNITS)	07/01/76-07/06/77	1	7	
BICA0140	Yes	00400	PH (STANDARD UNITS)	05/22/75-10/17/75	0	22	
BICA0141	No	00400	PH (STANDARD UNITS)	01/20/79-01/20/79	0	1	
BICA0144	No	00400	PH (STANDARD UNITS)	10/29/78-10/29/78	0	1	
BICA0145	Yes	00400	PH (STANDARD UNITS)	01/20/79-01/20/79	0	1	
BICA0146	No	00400	PH (STANDARD UNITS)	10/15/78-10/15/78	0	1	
BICA0147	No	00400	PH (STANDARD UNITS)	10/15/78-10/29/78	0	2	
BICA0148	No	00400	PH (STANDARD UNITS)	03/02/84-03/02/84	0	1	
BICA0149	No	00400	PH (STANDARD UNITS)	03/02/84-03/02/84	0	1	
BICA0150	No	00400	PH (STANDARD UNITS)	10/15/78-10/15/78	0	1	
BICA0151	No	00400	PH (STANDARD UNITS)	01/20/79-01/20/79	0	1	
BICA0152	Yes	00400	PH (STANDARD UNITS)	12/15/67-04/08/70	2	2	
BICA0153	Yes	00400	PH (STANDARD UNITS)	12/15/67-04/08/70	2	2	
BICA0154	Yes	00400	PH (STANDARD UNITS)	01/20/79-01/20/79	0	1	
BICA0155	No	00400	PH (STANDARD UNITS)	01/20/79-01/20/79	0	1	
BICA0156	No	00400	PH (STANDARD UNITS)	01/20/79-01/20/79	0	1	
BICA0157	No	00400	PH (STANDARD UNITS)	10/15/78-10/15/78	0	1	
BICA0158	Yes	00400	PH (STANDARD UNITS)	04/08/70-04/08/70	0	1	
BICA0159	Yes	00400	PH (STANDARD UNITS)	04/08/70-04/08/70	0	1	
BICA0160	No	00400	PH (STANDARD UNITS)	10/15/78-10/15/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0161	Yes	00400	PH (STANDARD UNITS)	10/29/78-10/29/78	0	1	
BICA0162	Yes	00400	PH (STANDARD UNITS)	04/08/70-04/08/70	0	1	
BICA0163	Yes	00400	PH (STANDARD UNITS)	01/20/79-01/20/79	0	1	
BICA0164	No	00400	PH (STANDARD UNITS)	03/02/84-03/02/84	0	1	
BICA0165	Yes	00400	PH (STANDARD UNITS)	12/15/67-04/08/70	2	2	
BICA0166	No	00400	PH (STANDARD UNITS)	10/15/78-10/15/78	0	1	
BICA0167	No	00400	PH (STANDARD UNITS)	10/29/78-10/29/78	0	1	
BICA0168	No	00400	PH (STANDARD UNITS)	10/14/78-10/14/78	0	1	
BICA0169	Yes	00400	PH (STANDARD UNITS)	07/29/68-06/16/69	0	3	
BICA0170	Yes	00400	PH (STANDARD UNITS)	12/15/67-04/08/70	2	2	
BICA0171	No	00400	PH (STANDARD UNITS)	10/17/78-10/17/78	0	1	
BICA0172	Yes	00400	PH (STANDARD UNITS)	05/22/75-10/17/75	0	24	
BICA0179	No	00400	PH (STANDARD UNITS)	01/20/79-01/20/79	0	1	
BICA0180	Yes	00400	PH (STANDARD UNITS)	10/01/66-09/16/80	13	162	
BICA0181	Yes	00400	PH (STANDARD UNITS)	07/01/76-07/06/77	1	5	
BICA0182	Yes	00400	PH (STANDARD UNITS)	03/06/68-09/02/68	0	4	
BICA0183	No	00400	PH (STANDARD UNITS)	01/20/79-01/20/79	0	1	
BICA0185	No	00400	PH (STANDARD UNITS)	10/15/78-10/15/78	0	1	
BICA0186	No	00400	PH (STANDARD UNITS)	07/01/76-07/06/77	1	7	
BICA0187	No	00400	PH (STANDARD UNITS)	10/29/78-10/29/78	0	1	
BICA0188	No	00400	PH (STANDARD UNITS)	10/29/78-10/29/78	0	1	
BICA0189	No	00400	PH (STANDARD UNITS)	01/20/79-01/20/79	0	1	
BICA0191	No	00400	PH (STANDARD UNITS)	01/20/79-01/20/79	0	1	
BICA0192	No	00400	PH (STANDARD UNITS)	01/20/79-01/20/79	0	1	
BICA0193	No	00400	PH (STANDARD UNITS)	10/15/78-10/15/78	0	1	
BICA0194	No	00400	PH (STANDARD UNITS)	10/15/78-10/15/78	0	1	
BICA0196	No	00400	PH (STANDARD UNITS)	01/20/79-01/20/79	0	1	
BICA0197	No	00400	PH (STANDARD UNITS)	11/05/78-11/05/78	0	1	
BICA0198	No	00400	PH (STANDARD UNITS)	11/05/78-11/05/78	0	1	
BICA0199	No	00400	PH (STANDARD UNITS)	08/31/76-04/20/83	6	6	
BICA0200	No	00400	PH (STANDARD UNITS)	01/19/79-01/19/79	0	1	
BICA0201	No	00400	PH (STANDARD UNITS)	11/05/78-11/05/78	0	1	
BICA0202	No	00400	PH (STANDARD UNITS)	11/05/78-11/05/78	0	1	
BICA0203	No	00400	PH (STANDARD UNITS)	11/05/78-11/05/78	0	1	
BICA0204	No	00400	PH (STANDARD UNITS)	11/07/78-11/07/78	0	1	
BICA0205	No	00400	PH (STANDARD UNITS)	11/05/78-11/05/78	0	1	
BICA0206	No	00400	PH (STANDARD UNITS)	11/05/78-11/05/78	0	1	
BICA0209	No	00400	PH (STANDARD UNITS)	06/30/76-04/20/83	6	8	
BICA0002	No	00403	PH, LAB, STANDARD UNITS SU	10/17/80-03/14/91	10	70	
BICA0006	No	00403	PH, LAB, STANDARD UNITS SU	02/22/68-08/18/69	1	38	
BICA0019	No	00403	PH, LAB, STANDARD UNITS SU	10/07/80-07/09/87	6	37	
BICA0029	Yes	00403	PH, LAB, STANDARD UNITS SU	02/22/68-08/18/69	1	43	
BICA0064	No	00403	PH, LAB, STANDARD UNITS SU	07/26/88-07/26/88	0	1	
BICA0067	Yes	00403	PH, LAB, STANDARD UNITS SU	05/05/74-05/05/74	0	1	
BICA0115	Yes	00403	PH, LAB, STANDARD UNITS SU	05/05/74-05/05/74	0	1	
BICA0123	Yes	00403	PH, LAB, STANDARD UNITS SU	05/05/74-05/05/74	0	1	
BICA0127	Yes	00403	PH, LAB, STANDARD UNITS SU	05/04/74-05/04/74	0	1	
BICA0134	Yes	00403	PH, LAB, STANDARD UNITS SU	05/04/74-05/04/74	0	1	
BICA0139	No	00403	PH, LAB, STANDARD UNITS SU	01/11/77-07/06/77	0	4	
BICA0177	Yes	00403	PH, LAB, STANDARD UNITS SU	02/22/68-08/18/69	1	45	
BICA0180	Yes	00403	PH, LAB, STANDARD UNITS SU	10/28/80-08/25/81	0	12	
BICA0186	No	00403	PH, LAB, STANDARD UNITS SU	01/11/77-07/06/77	0	4	
BICA0199	No	00403	PH, LAB, STANDARD UNITS SU	12/20/73-04/20/83	9	8	
BICA0207	No	00403	PH, LAB, STANDARD UNITS SU	11/19/73-11/19/73	0	1	
BICA0208	No	00403	PH, LAB, STANDARD UNITS SU	12/20/73-12/20/73	0	1	
BICA0209	No	00403	PH, LAB, STANDARD UNITS SU	01/12/77-04/20/83	6	5	
BICA0210	No	00403	PH, LAB, STANDARD UNITS SU	09/16/76-09/16/76	0	1	
BICA0002	No	00405	CARBON DIOXIDE (MG/L AS CO2)	11/30/71-10/07/81	9	78	
BICA0019	No	00405	CARBON DIOXIDE (MG/L AS CO2)	04/15/72-08/23/79	7	42	
BICA0036	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	12/16/68-07/12/69	0	8	
BICA0180	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	09/01/72-09/20/78	6	41	
BICA0006	No	00406	PH, FIELD, STANDARD UNITS SU	02/22/68-08/11/69	1	34	
BICA0029	Yes	00406	PH, FIELD, STANDARD UNITS SU	02/22/68-08/11/69	1	38	
BICA0039	Yes	00406	PH, FIELD, STANDARD UNITS SU	05/05/68-09/08/70	2	51	
BICA0066	Yes	00406	PH, FIELD, STANDARD UNITS SU	05/05/68-09/08/70	2	48	
BICA0075	Yes	00406	PH, FIELD, STANDARD UNITS SU	05/05/68-09/08/70	2	53	
BICA0099	Yes	00406	PH, FIELD, STANDARD UNITS SU	05/05/68-09/08/70	2	53	
BICA0132	Yes	00406	PH, FIELD, STANDARD UNITS SU	05/05/68-09/08/70	2	51	
BICA0174	Yes	00406	PH, FIELD, STANDARD UNITS SU	05/05/68-09/08/70	2	141	
BICA0177	Yes	00406	PH, FIELD, STANDARD UNITS SU	02/22/68-08/11/69	1	33	
BICA0002	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/47-09/04/80	33	330	T,A,S
BICA0010	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/09/80-10/16/80	0	6	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0019	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/66-09/02/80	13	253	
BICA0023	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/09/80-10/16/80	0	7	
BICA0026	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/65-09/16/68	2	63	
BICA0034	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/21/75-10/17/75	0	7	
BICA0049	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/22/75-10/17/75	0	13	
BICA0050	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/09/80-07/23/80	0	3	
BICA0067	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/05/74-05/05/74	0	1	
BICA0069	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/22/75-10/17/75	0	18	
BICA0074	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/09/80-07/23/80	0	2	
BICA0084	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/22/75-10/17/75	0	23	
BICA0115	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/05/74-05/05/74	0	1	
BICA0120	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/04/74-05/04/74	0	1	
BICA0123	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/05/74-05/05/74	0	1	
BICA0127	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/04/74-05/04/74	0	1	
BICA0128	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/22/75-10/17/75	0	24	
BICA0134	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/04/74-05/04/74	0	1	
BICA0139	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/01/76-07/06/77	1	7	
BICA0140	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/22/75-10/17/75	0	22	
BICA0152	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/15/67-04/08/70	2	2	
BICA0153	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/15/67-04/08/70	2	2	
BICA0158	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/08/70-04/08/70	0	1	
BICA0159	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/08/70-04/08/70	0	1	
BICA0162	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/08/70-04/08/70	0	1	
BICA0165	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/15/67-04/08/70	2	2	
BICA0169	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/29/68-06/16/69	0	3	
BICA0170	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/15/67-04/08/70	2	2	
BICA0172	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/22/75-10/17/75	0	24	
BICA0180	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/66-09/16/80	13	208	
BICA0181	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/01/76-07/01/76	0	1	
BICA0182	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/06/68-09/02/68	0	4	
BICA0186	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/01/76-07/06/77	1	7	
BICA0199	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/31/74-04/20/83	9	8	
BICA0207	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/19/73-11/19/73	0	1	
BICA0209	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/30/76-04/20/83	6	8	
BICA0210	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/16/76-09/16/76	0	1	
BICA0001	No	00411	ALKALINITY,METHYLORANGE MG/L	02/26/73-12/11/74	1	11	
BICA0013	No	00411	ALKALINITY,METHYLORANGE MG/L	05/12/69-05/12/69	0	1	
BICA0036	Yes	00411	ALKALINITY,METHYLORANGE MG/L	12/16/68-10/26/70	1	10	
BICA0044	Yes	00411	ALKALINITY,METHYLORANGE MG/L	02/13/70-02/13/70	0	1	
BICA0057	Yes	00411	ALKALINITY,METHYLORANGE MG/L	07/15/56-07/15/56	0	1	
BICA0001	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/26/73-12/11/74	1	11	
BICA0013	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/12/69-05/12/69	0	1	
BICA0036	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	12/16/68-10/26/70	1	10	
BICA0044	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/13/70-02/13/70	0	1	
BICA0002	No	00440	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	34	481	T,A,S
BICA0006	No	00440	BICARBONATE ION (MG/L AS HCO3)	02/22/68-08/18/69	1	40	
BICA0019	No	00440	BICARBONATE ION (MG/L AS HCO3)	10/01/66-08/23/79	12	243	
BICA0026	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/20/58-09/16/68	10	162	
BICA0029	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	02/22/68-08/18/69	1	45	
BICA0061	No	00440	BICARBONATE ION (MG/L AS HCO3)	05/27/57-05/27/57	0	1	
BICA0067	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	05/05/74-05/05/74	0	1	
BICA0115	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	05/05/74-05/05/74	0	1	
BICA0120	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	05/04/74-05/04/74	0	1	
BICA0123	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	05/05/74-05/05/74	0	1	
BICA0127	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	05/04/74-05/04/74	0	1	
BICA0134	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	05/04/74-05/04/74	0	1	
BICA0139	No	00440	BICARBONATE ION (MG/L AS HCO3)	01/11/77-07/06/77	0	4	
BICA0152	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	12/15/67-04/08/70	2	2	
BICA0153	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	12/15/67-04/08/70	2	2	
BICA0158	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	04/08/70-04/08/70	0	1	
BICA0159	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	04/08/70-04/08/70	0	1	
BICA0162	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	04/08/70-04/08/70	0	1	
BICA0165	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	12/15/67-04/08/70	2	2	
BICA0169	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	07/29/68-06/16/69	0	3	
BICA0170	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	12/15/67-04/08/70	2	2	
BICA0177	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	02/22/68-08/18/69	1	46	
BICA0180	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/01/66-09/20/78	11	181	
BICA0182	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	03/06/68-09/02/68	0	4	
BICA0186	No	00440	BICARBONATE ION (MG/L AS HCO3)	01/11/77-07/06/77	0	4	
BICA0199	No	00440	BICARBONATE ION (MG/L AS HCO3)	03/31/74-07/06/77	3	6	
BICA0207	No	00440	BICARBONATE ION (MG/L AS HCO3)	11/19/73-11/19/73	0	1	
BICA0209	No	00440	BICARBONATE ION (MG/L AS HCO3)	01/12/77-04/20/83	6	5	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0210	No	00440	BICARBONATE ION (MG/L AS HCO3)	09/16/76-09/16/76	0	1	
BICA0002	No	00445	CARBONATE ION (MG/L AS CO3)	10/03/50-12/17/81	31	406	T,A,S
BICA0019	No	00445	CARBONATE ION (MG/L AS CO3)	10/01/66-08/23/79	12	199	
BICA0026	No	00445	CARBONATE ION (MG/L AS CO3)	10/01/59-09/16/68	8	149	
BICA0067	Yes	00445	CARBONATE ION (MG/L AS CO3)	05/05/74-05/05/74	0	1	
BICA0115	Yes	00445	CARBONATE ION (MG/L AS CO3)	05/05/74-05/05/74	0	1	
BICA0120	Yes	00445	CARBONATE ION (MG/L AS CO3)	05/04/74-05/04/74	0	1	
BICA0123	Yes	00445	CARBONATE ION (MG/L AS CO3)	05/05/74-05/05/74	0	1	
BICA0127	Yes	00445	CARBONATE ION (MG/L AS CO3)	05/04/74-05/04/74	0	1	
BICA0134	Yes	00445	CARBONATE ION (MG/L AS CO3)	05/04/74-05/04/74	0	1	
BICA0139	No	00445	CARBONATE ION (MG/L AS CO3)	01/11/77-07/06/77	0	4	
BICA0152	Yes	00445	CARBONATE ION (MG/L AS CO3)	12/15/67-04/08/70	2	2	
BICA0153	Yes	00445	CARBONATE ION (MG/L AS CO3)	12/15/67-04/08/70	2	2	
BICA0158	Yes	00445	CARBONATE ION (MG/L AS CO3)	04/08/70-04/08/70	0	1	
BICA0159	Yes	00445	CARBONATE ION (MG/L AS CO3)	04/08/70-04/08/70	0	1	
BICA0162	Yes	00445	CARBONATE ION (MG/L AS CO3)	04/08/70-04/08/70	0	1	
BICA0165	Yes	00445	CARBONATE ION (MG/L AS CO3)	12/15/67-04/08/70	2	2	
BICA0169	Yes	00445	CARBONATE ION (MG/L AS CO3)	07/29/68-06/16/69	0	3	
BICA0170	Yes	00445	CARBONATE ION (MG/L AS CO3)	12/15/67-04/08/70	2	2	
BICA0180	Yes	00445	CARBONATE ION (MG/L AS CO3)	10/01/66-10/01/74	8	128	
BICA0182	Yes	00445	CARBONATE ION (MG/L AS CO3)	03/06/68-09/02/68	0	4	
BICA0186	No	00445	CARBONATE ION (MG/L AS CO3)	01/11/77-07/06/77	0	4	
BICA0199	No	00445	CARBONATE ION (MG/L AS CO3)	03/31/74-07/06/77	3	6	
BICA0207	No	00445	CARBONATE ION (MG/L AS CO3)	11/19/73-11/19/73	0	1	
BICA0209	No	00445	CARBONATE ION (MG/L AS CO3)	01/12/77-04/20/83	6	5	
BICA0210	No	00445	CARBONATE ION (MG/L AS CO3)	09/16/76-09/16/76	0	1	
BICA0020	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/09/76-04/19/78	1	9	
BICA0020	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/09/76-04/19/78	1	9	
BICA0139	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/09/76-07/06/77	0	5	
BICA0181	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/09/76-07/06/77	0	5	
BICA0186	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/09/76-07/06/77	0	5	
BICA0199	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/12/77-04/20/83	6	5	
BICA0209	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/11/76-04/20/83	6	6	
BICA0002	No	00600	NITROGEN, TOTAL (MG/L AS N)	11/20/80-08/13/85	4	26	
BICA0006	No	00600	NITROGEN, TOTAL (MG/L AS N)	02/22/68-08/11/69	1	39	
BICA0026	No	00600	NITROGEN, TOTAL (MG/L AS N)	12/02/80-03/21/83	2	16	
BICA0029	Yes	00600	NITROGEN, TOTAL (MG/L AS N)	02/22/68-08/11/69	1	42	
BICA0177	Yes	00600	NITROGEN, TOTAL (MG/L AS N)	02/22/68-08/11/69	1	44	
BICA0006	No	00602	NITROGEN, DISSOLVED (MG/L AS N)	02/22/68-08/11/69	1	30	
BICA0029	Yes	00602	NITROGEN, DISSOLVED (MG/L AS N)	02/22/68-08/11/69	1	35	
BICA0177	Yes	00602	NITROGEN, DISSOLVED (MG/L AS N)	02/22/68-08/11/69	1	36	
BICA0002	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	11/20/80-08/13/85	4	22	
BICA0026	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	12/02/80-03/21/83	2	15	
BICA0180	Yes	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	09/11/69-09/11/69	0	1	
BICA0002	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	03/03/70-06/23/81	11	3	
BICA0180	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	07/23/69-06/02/70	0	7	
BICA0002	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/20/80-07/28/89	8	58	
BICA0004	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/05/74-09/10/75	0	11	
BICA0006	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/22/68-08/18/69	1	38	
BICA0010	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/09/80-10/16/80	0	6	
BICA0015	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/15/83-02/15/83	0	1	
BICA0019	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/29/87-06/30/87	0	2	
BICA0021	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/05/75-12/16/75	0	14	
BICA0022	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/03/75-01/14/76	0	6	
BICA0023	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/09/80-10/16/80	0	7	
BICA0025	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/05/74-09/10/75	0	13	
BICA0026	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/02/80-08/23/89	8	45	
BICA0029	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/22/68-08/18/69	1	43	
BICA0034	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/21/75-10/17/75	0	7	
BICA0039	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/05/68-09/08/70	2	55	
BICA0049	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/22/75-10/17/75	0	13	
BICA0050	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/09/80-08/06/80	0	4	
BICA0056	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/10/74-09/10/75	0	14	
BICA0066	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/05/68-09/08/70	2	55	
BICA0069	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/22/75-10/17/75	0	18	
BICA0074	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/09/80-08/06/80	0	3	
BICA0075	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/05/68-09/08/70	2	55	
BICA0084	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/22/75-10/17/75	0	23	
BICA0099	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/05/68-09/08/70	2	54	
BICA0124	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/02/74-08/02/75	0	5	
BICA0128	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/22/75-10/17/75	0	24	
BICA0132	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/05/68-09/08/70	2	54	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0139	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/01/76-07/06/77	1	7	
BICA0140	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/22/75-10/17/75	0	22	
BICA0172	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/22/75-10/17/75	0	24	
BICA0174	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/05/68-09/08/70	2	54	
BICA0175	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/05/74-08/02/75	0	8	
BICA0177	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/22/68-08/18/69	1	41	
BICA0181	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/01/76-07/01/76	0	1	
BICA0186	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/01/76-07/06/77	1	7	
BICA0199	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/31/76-04/20/83	6	6	
BICA0209	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/30/76-04/20/83	6	8	
BICA0019	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	04/20/81-04/20/81	0	1	
BICA0180	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	07/23/69-06/02/70	0	7	
BICA0002	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	02/08/82-02/08/82	0	1	
BICA0004	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/05/74-10/05/74	0	1	
BICA0006	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	02/22/68-08/18/69	1	38	
BICA0025	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/05/74-10/05/74	0	1	
BICA0026	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	02/10/82-02/10/82	0	1	
BICA0029	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	02/22/68-08/18/69	1	43	
BICA0039	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/05/68-09/08/70	2	55	
BICA0066	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/05/68-09/08/70	2	55	
BICA0075	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/05/68-09/08/70	2	55	
BICA0099	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/05/68-09/08/70	2	54	
BICA0124	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	11/02/74-11/02/74	0	1	
BICA0132	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/05/68-09/08/70	2	55	
BICA0174	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/05/68-09/08/70	2	55	
BICA0175	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/05/74-10/05/74	0	1	
BICA0177	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	02/22/68-08/18/69	1	41	
BICA0002	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/30/71-08/23/79	7	85	
BICA0019	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	04/15/72-04/15/72	0	1	
BICA0180	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/01/69-12/01/70	1	35	
BICA0003	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/19/72-10/31/73	1	7	
BICA0004	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/05/74-10/05/74	0	1	
BICA0006	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/22/68-08/18/69	1	39	
BICA0010	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/09/80-08/06/80	0	4	
BICA0020	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/09/76-08/17/77	1	6	
BICA0023	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/09/80-08/06/80	0	4	
BICA0025	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/05/74-11/10/74	0	2	
BICA0029	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/22/68-08/18/69	1	44	
BICA0039	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/05/68-09/08/70	2	56	
BICA0050	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/09/80-08/06/80	0	4	
BICA0056	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	11/10/74-11/10/74	0	1	
BICA0066	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/05/68-09/08/70	2	56	
BICA0067	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/05/74-05/05/74	0	1	
BICA0074	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/09/80-08/06/80	0	3	
BICA0075	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/05/68-09/08/70	2	56	
BICA0099	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/05/68-09/08/70	2	55	
BICA0115	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/05/74-05/05/74	0	1	
BICA0120	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/04/74-05/04/74	0	1	
BICA0123	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/05/74-05/05/74	0	1	
BICA0124	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	11/02/74-11/02/74	0	1	
BICA0127	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/04/74-05/04/74	0	1	
BICA0132	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/05/68-09/08/70	2	56	
BICA0134	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/04/74-05/04/74	0	1	
BICA0139	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/01/76-07/06/77	1	7	
BICA0174	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/05/68-09/08/70	2	143	
BICA0175	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/05/74-10/05/74	0	1	
BICA0177	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/22/68-08/18/69	1	42	
BICA0181	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/01/76-07/01/76	0	1	
BICA0186	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/01/76-07/06/77	1	7	
BICA0199	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/31/74-07/06/77	3	7	
BICA0207	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	11/19/73-11/19/73	0	1	
BICA0209	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/30/76-07/14/77	1	7	
BICA0002	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/20/80-07/28/89	8	59	
BICA0004	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/05/74-09/10/75	0	10	
BICA0019	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/87-06/30/87	0	2	
BICA0021	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/05/75-12/16/75	0	14	
BICA0022	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/03/75-02/05/76	1	7	
BICA0025	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/05/74-09/10/75	0	13	
BICA0026	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	12/02/80-08/23/89	8	45	
BICA0034	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/21/75-10/17/75	0	7	
BICA0049	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/22/75-10/17/75	0	13	
BICA0056	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/10/74-09/10/75	0	13	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0069	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/22/75-10/17/75	0	18	
BICA0084	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/22/75-10/17/75	0	23	
BICA0124	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/02/74-08/02/75	0	4	
BICA0128	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/22/75-10/17/75	0	24	
BICA0139	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/01/76-07/06/77	1	7	
BICA0140	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/22/75-10/17/75	0	22	
BICA0172	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/22/75-10/17/75	0	24	
BICA0175	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/05/74-08/02/75	0	8	
BICA0181	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/01/76-07/01/76	0	1	
BICA0186	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/01/76-07/06/77	1	7	
BICA0199	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/76-07/06/77	0	5	
BICA0209	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/30/76-07/14/77	1	7	
BICA0002	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/20/80-07/28/89	8	58	
BICA0004	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/05/74-09/10/75	0	11	
BICA0015	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/15/83-08/07/85	2	11	
BICA0019	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/87-06/30/87	0	2	
BICA0020	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/09/77-04/19/78	0	2	
BICA0021	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/05/75-12/16/75	0	14	
BICA0022	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/03/75-02/05/76	1	7	
BICA0025	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/05/74-09/10/75	0	13	
BICA0026	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/02/80-08/23/89	8	45	
BICA0032	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/13/84-08/07/85	1	6	
BICA0034	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/21/75-10/17/75	0	7	
BICA0049	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/22/75-10/17/75	0	13	
BICA0055	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/13/84-08/07/85	1	6	
BICA0056	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/10/74-09/10/75	0	14	
BICA0069	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/22/75-10/17/75	0	18	
BICA0084	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/22/75-10/17/75	0	23	
BICA0124	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/02/74-08/02/75	0	5	
BICA0128	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/22/75-10/17/75	0	24	
BICA0140	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/22/75-10/17/75	0	22	
BICA0172	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/22/75-10/17/75	0	24	
BICA0175	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/05/74-08/02/75	0	8	
BICA0199	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/20/83-04/20/83	0	1	
BICA0209	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/20/83-04/20/83	0	1	
BICA0210	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/16/76-09/16/76	0	1	
BICA0002	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/04/79-06/06/86	6	70	
BICA0019	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/01/71-07/09/87	16	145	
BICA0064	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/26/88-07/26/88	0	1	
BICA0180	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	01/01/71-08/25/81	10	149	
BICA0006	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	02/22/68-08/18/69	1	40	
BICA0019	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/18/79-06/13/79	0	2	
BICA0029	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	02/22/68-08/18/69	1	44	
BICA0177	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	02/22/68-08/18/69	1	45	
BICA0001	No	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	12/05/73-12/11/74	1	5	
BICA0006	No	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	02/22/68-08/18/69	1	33	
BICA0029	Yes	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	02/22/68-08/18/69	1	38	
BICA0177	Yes	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	02/22/68-08/18/69	1	39	
BICA0006	No	00655	PHOSPHATE, POLY (MG/L AS PO4)	03/17/69-08/18/69	0	22	
BICA0029	Yes	00655	PHOSPHATE, POLY (MG/L AS PO4)	01/18/69-08/18/69	0	26	
BICA0177	Yes	00655	PHOSPHATE, POLY (MG/L AS PO4)	01/18/69-08/18/69	0	26	
BICA0001	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/26/73-04/19/74	1	4	
BICA0002	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/19/69-11/19/69	0	1	
BICA0006	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/22/68-08/18/69	1	40	
BICA0019	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/15/81-07/15/81	0	1	
BICA0029	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/22/68-08/18/69	1	45	
BICA0036	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	12/16/68-10/26/70	1	8	
BICA0039	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/05/68-09/08/70	2	53	
BICA0066	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/05/68-09/08/70	2	53	
BICA0075	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/05/68-09/08/70	2	52	
BICA0099	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/05/68-09/08/70	2	52	
BICA0132	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/05/68-09/08/70	2	53	
BICA0174	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/05/68-09/08/70	2	141	
BICA0177	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/22/68-08/18/69	1	46	
BICA0180	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/01/71-09/20/78	7	114	
BICA0002	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/19/69-07/28/89	19	158	
BICA0003	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/19/72-10/31/73	1	7	
BICA0004	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/74-09/10/75	0	10	
BICA0010	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/09/80-08/06/80	0	4	
BICA0019	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/13/70-06/30/87	16	111	
BICA0020	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/09/76-04/19/78	1	9	
BICA0021	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/05/75-12/16/75	0	14	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0022	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/03/75-02/05/76	1	7	
BICA0023	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/09/80-08/06/80	0	4	
BICA0025	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/74-09/10/75	0	13	
BICA0026	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/02/80-08/23/89	8	45	
BICA0032	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/13/84-08/07/85	1	6	
BICA0034	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/29/75-10/17/75	0	6	
BICA0049	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/75-10/17/75	0	13	
BICA0050	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/09/80-08/06/80	0	4	
BICA0055	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/13/84-08/07/85	1	6	
BICA0056	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/10/74-09/10/75	0	13	
BICA0064	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/26/88-07/26/88	0	1	
BICA0069	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/75-10/17/75	0	18	
BICA0074	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/09/80-08/06/80	0	3	
BICA0084	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/75-10/17/75	0	23	
BICA0097	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/08/78-10/08/78	0	1	
BICA0104	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/08/78-10/08/78	0	1	
BICA0105	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/08/78-10/08/78	0	1	
BICA0107	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/78-10/07/78	0	1	
BICA0116	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/08/78-10/08/78	0	1	
BICA0117	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/08/78-10/08/78	0	1	
BICA0124	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/02/74-08/02/75	0	4	
BICA0125	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/08/78-10/08/78	0	1	
BICA0126	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/14/78-10/14/78	0	1	
BICA0128	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/75-10/17/75	0	24	
BICA0130	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/15/78-10/15/78	0	1	
BICA0131	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/15/78-10/15/78	0	1	
BICA0133	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/15/79-10/15/79	0	1	
BICA0137	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/15/78-10/15/78	0	1	
BICA0138	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/08/78-10/08/78	0	1	
BICA0139	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/01/76-07/06/77	1	7	
BICA0140	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/75-10/17/75	0	22	
BICA0144	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/29/78-10/29/78	0	1	
BICA0146	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/15/78-10/15/78	0	1	
BICA0147	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/15/78-10/29/78	0	2	
BICA0150	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/15/78-10/15/78	0	1	
BICA0157	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/15/78-10/15/78	0	1	
BICA0160	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/15/78-10/15/78	0	1	
BICA0161	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/29/78-10/29/78	0	1	
BICA0166	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/15/78-10/15/78	0	1	
BICA0167	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/29/78-10/29/78	0	1	
BICA0168	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/14/78-10/14/78	0	1	
BICA0171	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/17/78-10/17/78	0	1	
BICA0172	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/75-10/17/75	0	24	
BICA0175	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/74-08/02/75	0	8	
BICA0180	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/69-06/02/70	0	7	
BICA0181	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/01/76-07/01/76	0	1	
BICA0185	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/15/78-10/15/78	0	1	
BICA0186	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/01/76-07/06/77	1	7	
BICA0187	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/29/78-10/29/78	0	1	
BICA0188	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/29/78-10/29/78	0	1	
BICA0193	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/15/78-10/15/78	0	1	
BICA0194	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/15/78-10/15/78	0	1	
BICA0197	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/05/78-11/05/78	0	1	
BICA0198	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/05/78-11/05/78	0	1	
BICA0199	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/31/76-04/20/83	6	6	
BICA0201	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/05/78-11/05/78	0	1	
BICA0202	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/05/78-11/05/78	0	1	
BICA0203	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/05/78-11/05/78	0	1	
BICA0204	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/07/78-11/07/78	0	1	
BICA0205	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/05/78-11/05/78	0	1	
BICA0206	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/05/78-11/05/78	0	1	
BICA0209	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/30/76-04/20/83	6	8	
BICA0002	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	11/19/69-06/30/70	0	3	
BICA0019	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/12/70-07/09/87	16	114	
BICA0180	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/23/69-07/28/81	12	138	
BICA0003	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/19/72-10/31/73	1	7	
BICA0004	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/05/74-09/10/75	0	11	
BICA0010	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/09/80-04/01/81	0	12	
BICA0019	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/15/81-07/15/81	0	1	
BICA0021	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/05/75-12/16/75	0	14	
BICA0022	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/03/75-01/14/76	0	5	
BICA0023	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/09/80-04/01/81	0	12	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0025	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/05/74-09/10/75	0	13	
BICA0034	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/21/75-10/17/75	0	7	
BICA0049	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/22/75-10/17/75	0	13	
BICA0050	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/09/80-11/26/80	0	9	
BICA0056	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/10/74-09/10/75	0	14	
BICA0069	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/22/75-10/17/75	0	18	
BICA0074	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/09/80-11/26/80	0	8	
BICA0084	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/22/75-10/17/75	0	23	
BICA0124	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/02/74-08/02/75	0	5	
BICA0128	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/22/75-10/17/75	0	24	
BICA0140	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/22/75-10/17/75	0	22	
BICA0172	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/22/75-10/17/75	0	24	
BICA0175	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/05/74-08/02/75	0	8	
BICA0180	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/01/72-09/20/78	6	92	
BICA0006	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/19/68-08/18/69	0	26	
BICA0029	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/19/68-08/18/69	0	31	
BICA0177	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/19/68-08/18/69	0	32	
BICA0006	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	08/19/68-08/18/69	0	26	
BICA0029	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	08/19/68-08/18/69	0	31	
BICA0177	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	08/19/68-08/18/69	0	32	
BICA0006	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	08/19/68-08/18/69	0	26	
BICA0029	Yes	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	08/19/68-08/18/69	0	31	
BICA0177	Yes	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	08/19/68-08/18/69	0	31	
BICA0014	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	02/08/73-02/08/73	0	1	
BICA0148	No	00745	SULFIDE, TOTAL (MG/L AS S)	03/02/84-03/02/84	0	1	
BICA0149	No	00745	SULFIDE, TOTAL (MG/L AS S)	03/02/84-03/02/84	0	1	
BICA0164	No	00745	SULFIDE, TOTAL (MG/L AS S)	03/02/84-03/02/84	0	1	
BICA0002	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	35	503	T,A,S
BICA0013	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/12/69-05/12/69	0	1	
BICA0015	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/83-08/07/85	2	11	
BICA0019	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-03/21/83	16	274	A
BICA0026	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/20/58-09/16/68	10	162	
BICA0032	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/13/84-08/07/85	1	6	
BICA0044	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/13/70-02/13/70	0	1	
BICA0055	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/13/84-08/07/85	1	6	
BICA0067	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/05/74-05/05/74	0	1	
BICA0115	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/05/74-05/05/74	0	1	
BICA0120	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/04/74-05/04/74	0	1	
BICA0123	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/05/74-05/05/74	0	1	
BICA0127	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/04/74-05/04/74	0	1	
BICA0134	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/04/74-05/04/74	0	1	
BICA0139	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/77-07/06/77	0	4	
BICA0152	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/15/67-04/08/70	2	2	
BICA0153	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/15/67-04/08/70	2	2	
BICA0158	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/08/70-04/08/70	0	1	
BICA0159	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/08/70-04/08/70	0	1	
BICA0162	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/08/70-04/08/70	0	1	
BICA0165	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/15/67-04/08/70	2	2	
BICA0169	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/29/68-06/16/69	0	3	
BICA0170	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/15/67-04/08/70	2	2	
BICA0180	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-08/25/81	14	223	
BICA0182	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/06/68-09/02/68	0	4	
BICA0186	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/77-07/06/77	0	4	
BICA0199	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/31/74-04/20/83	9	7	
BICA0207	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/19/73-11/19/73	0	1	
BICA0209	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/12/77-04/20/83	6	5	
BICA0210	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/16/76-09/16/76	0	1	
BICA0002	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	34	480	T,A,S
BICA0019	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-08/13/81	14	260	
BICA0026	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/20/58-09/16/68	10	162	
BICA0061	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/27/57-05/27/57	0	1	
BICA0152	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	12/15/67-04/08/70	2	2	
BICA0153	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	12/15/67-04/08/70	2	2	
BICA0158	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	04/08/70-04/08/70	0	1	
BICA0159	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	04/08/70-04/08/70	0	1	
BICA0162	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	04/08/70-04/08/70	0	1	
BICA0165	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	12/15/67-04/08/70	2	2	
BICA0169	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	07/29/68-06/16/69	0	3	
BICA0170	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	12/15/67-04/08/70	2	2	
BICA0180	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-02/24/81	14	207	
BICA0182	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/06/68-09/02/68	0	4	
BICA0001	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/26/73-12/11/74	1	9	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0002	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	43	544	T,A,S
BICA0019	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-07/09/87	20	291	T,A
BICA0026	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/20/58-09/16/68	10	162	
BICA0036	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/16/68-10/26/70	1	8	
BICA0057	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/15/56-07/15/56	0	1	
BICA0064	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/26/88-07/26/88	0	1	
BICA0067	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/05/74-05/05/74	0	1	
BICA0071	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/06/78-07/06/78	0	1	
BICA0076	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/05/78-07/05/78	0	1	
BICA0085	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/05/78-07/05/78	0	1	
BICA0090	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/15/78-07/15/78	0	1	
BICA0091	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/30/78-06/30/78	0	1	
BICA0092	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/15/78-07/15/78	0	1	
BICA0095	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/05/78-07/05/78	0	1	
BICA0096	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/15/78-07/15/78	0	1	
BICA0098	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/05/78-07/05/78	0	1	
BICA0101	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/05/78-07/05/78	0	1	
BICA0102	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/05/78-07/05/78	0	1	
BICA0103	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/05/78-07/05/78	0	1	
BICA0106	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/30/78-06/30/78	0	1	
BICA0108	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/30/78-06/30/78	0	1	
BICA0110	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/05/78-07/05/78	0	1	
BICA0111	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/14/78-04/14/78	0	1	
BICA0112	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/14/78-07/14/78	0	1	
BICA0115	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/05/74-05/05/74	0	1	
BICA0119	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/14/78-07/14/78	0	1	
BICA0120	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/04/74-05/04/74	0	1	
BICA0121	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/14/78-07/14/78	0	1	
BICA0122	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/14/78-07/14/78	0	1	
BICA0123	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/05/74-05/05/74	0	1	
BICA0127	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/04/74-05/04/74	0	1	
BICA0133	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/15/79-10/15/79	0	1	
BICA0134	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/04/74-05/04/74	0	1	
BICA0135	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	0	1	
BICA0139	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/77-07/06/77	0	4	
BICA0141	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	0	1	
BICA0144	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/29/78-10/29/78	0	1	
BICA0145	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	0	1	
BICA0151	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	0	1	
BICA0152	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/15/67-04/08/70	2	2	
BICA0153	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/15/67-04/08/70	2	2	
BICA0154	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	0	1	
BICA0155	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	0	1	
BICA0156	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	0	1	
BICA0157	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/15/78-10/15/78	0	1	
BICA0158	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/08/70-04/08/70	0	1	
BICA0159	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/08/70-04/08/70	0	1	
BICA0161	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/29/78-10/29/78	0	1	
BICA0162	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/08/70-04/08/70	0	1	
BICA0163	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	0	1	
BICA0165	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/15/67-04/08/70	2	2	
BICA0168	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/14/78-10/14/78	0	1	
BICA0169	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/29/68-06/16/69	0	3	
BICA0170	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/15/67-04/08/70	2	2	
BICA0179	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	0	1	
BICA0180	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-08/25/81	14	216	
BICA0182	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/06/68-09/02/68	0	4	
BICA0183	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	0	1	
BICA0186	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/77-07/06/77	0	4	
BICA0189	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	0	1	
BICA0191	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	0	1	
BICA0192	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	0	1	
BICA0194	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/15/78-10/15/78	0	1	
BICA0196	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	0	1	
BICA0198	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/05/78-11/05/78	0	1	
BICA0199	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/31/74-04/20/83	9	7	
BICA0200	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/19/79-01/19/79	0	1	
BICA0207	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/19/73-11/19/73	0	1	
BICA0209	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/12/77-04/20/83	6	5	
BICA0210	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/16/76-09/16/76	0	1	
BICA0006	No	00916	CALCIUM, TOTAL (MG/L AS CA)	02/22/68-08/18/69	1	40	
BICA0029	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	02/22/68-08/18/69	1	45	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0061	No	00916	CALCIUM, TOTAL (MG/L AS CA)	05/27/57-05/27/57	0	1	
BICA0177	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	02/22/68-08/18/69	1	46	
BICA0001	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/26/73-12/11/74	1	9	
BICA0002	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	43	544	T,A,S
BICA0019	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-07/09/87	20	291	T,A
BICA0026	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/20/58-09/16/68	10	162	
BICA0036	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/16/68-10/26/70	1	8	
BICA0057	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/15/56-07/15/56	0	1	
BICA0064	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/26/88-07/26/88	0	1	
BICA0067	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/05/74-05/05/74	0	1	
BICA0071	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/06/78-07/06/78	0	1	
BICA0076	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/78-07/05/78	0	1	
BICA0078	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/78-07/05/78	0	1	
BICA0081	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/78-07/05/78	0	1	
BICA0085	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/78-07/05/78	0	1	
BICA0086	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/78-07/05/78	0	1	
BICA0090	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/15/78-07/15/78	0	1	
BICA0091	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/30/78-06/30/78	0	1	
BICA0092	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/15/78-07/15/78	0	1	
BICA0093	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/30/78-06/30/78	0	1	
BICA0094	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/30/78-06/30/78	0	1	
BICA0095	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/78-07/05/78	0	1	
BICA0096	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/15/78-07/15/78	0	1	
BICA0097	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/08/78-10/08/78	0	1	
BICA0098	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/78-07/05/78	0	1	
BICA0101	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/78-07/05/78	0	1	
BICA0102	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/78-07/05/78	0	1	
BICA0103	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/78-07/05/78	0	1	
BICA0104	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/08/78-10/08/78	0	1	
BICA0105	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/08/78-10/08/78	0	1	
BICA0106	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/30/78-06/30/78	0	1	
BICA0107	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/07/78-10/07/78	0	1	
BICA0108	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/30/78-06/30/78	0	1	
BICA0109	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/30/78-06/30/78	0	1	
BICA0110	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/78-07/05/78	0	1	
BICA0111	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/14/78-04/14/78	0	1	
BICA0112	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/14/78-07/14/78	0	1	
BICA0114	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/14/78-07/14/78	0	1	
BICA0115	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/05/74-05/05/74	0	1	
BICA0116	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/08/78-10/08/78	0	1	
BICA0117	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/08/78-10/08/78	0	1	
BICA0118	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/14/78-07/14/78	0	1	
BICA0119	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/14/78-07/14/78	0	1	
BICA0120	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/04/74-05/04/74	0	1	
BICA0121	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/14/78-07/14/78	0	1	
BICA0122	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/14/78-07/14/78	0	1	
BICA0123	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/05/74-05/05/74	0	1	
BICA0126	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/14/78-10/14/78	0	1	
BICA0127	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/04/74-05/04/74	0	1	
BICA0130	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/78-10/15/78	0	1	
BICA0131	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/78-10/15/78	0	1	
BICA0133	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/79-10/15/79	0	1	
BICA0134	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/04/74-05/04/74	0	1	
BICA0135	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	0	1	
BICA0137	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/78-10/15/78	0	1	
BICA0138	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/08/78-10/08/78	0	1	
BICA0139	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/77-07/06/77	0	4	
BICA0141	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	0	1	
BICA0144	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/78-10/29/78	0	1	
BICA0145	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	0	1	
BICA0147	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/78-10/29/78	0	2	
BICA0150	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/78-10/15/78	0	1	
BICA0151	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	0	1	
BICA0152	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/15/67-04/08/70	2	2	
BICA0153	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/15/67-04/08/70	2	2	
BICA0154	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	0	1	
BICA0155	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	0	1	
BICA0156	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	0	1	
BICA0157	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/78-10/15/78	0	1	
BICA0158	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/08/70-04/08/70	0	1	
BICA0159	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/08/70-04/08/70	0	1	
BICA0160	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/78-10/15/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0161	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/78-10/29/78	0	1	
BICA0162	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/08/70-04/08/70	0	1	
BICA0163	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	0	1	
BICA0165	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/15/67-04/08/70	2	2	
BICA0166	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/78-10/15/78	0	1	
BICA0167	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/78-10/29/78	0	1	
BICA0168	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/14/78-10/14/78	0	1	
BICA0169	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/29/68-06/16/69	0	3	
BICA0170	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/15/67-04/08/70	2	2	
BICA0171	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/17/78-10/17/78	0	1	
BICA0179	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	0	1	
BICA0180	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-08/25/81	14	216	
BICA0182	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/06/68-09/02/68	0	4	
BICA0183	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	0	1	
BICA0186	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/77-07/06/77	0	4	
BICA0187	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/78-10/29/78	0	1	
BICA0188	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/78-10/29/78	0	1	
BICA0189	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	0	1	
BICA0191	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	0	1	
BICA0192	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	0	1	
BICA0193	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/78-10/15/78	0	1	
BICA0194	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/78-10/15/78	0	1	
BICA0196	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	0	1	
BICA0197	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/05/78-11/05/78	0	1	
BICA0198	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/05/78-11/05/78	0	1	
BICA0199	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/31/74-04/20/83	9	7	
BICA0200	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/19/79-01/19/79	0	1	
BICA0201	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/05/78-11/05/78	0	1	
BICA0204	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/07/78-11/07/78	0	1	
BICA0207	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/19/73-11/19/73	0	1	
BICA0209	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/12/77-04/20/83	6	5	
BICA0210	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/16/76-09/16/76	0	1	
BICA0006	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/22/68-08/18/69	1	40	
BICA0029	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/22/68-08/18/69	1	45	
BICA0061	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/27/57-05/27/57	0	1	
BICA0177	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/22/68-08/18/69	1	46	
BICA0006	No	00929	SODIUM, TOTAL (MG/L AS NA)	02/22/68-08/18/69	1	40	
BICA0029	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	02/22/68-08/18/69	1	45	
BICA0061	No	00929	SODIUM, TOTAL (MG/L AS NA)	05/27/57-05/27/57	0	1	
BICA0177	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	02/22/68-08/18/69	1	46	
BICA0001	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	02/26/73-12/11/74	1	9	
BICA0002	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	39	527	T,A,S
BICA0019	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-07/09/87	20	291	T,A
BICA0026	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/20/58-09/16/68	10	162	
BICA0036	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	12/16/68-10/26/70	1	8	
BICA0064	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/26/88-07/26/88	0	1	
BICA0067	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/05/74-05/05/74	0	1	
BICA0097	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/08/78-10/08/78	0	1	
BICA0104	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/08/78-10/08/78	0	1	
BICA0105	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/08/78-10/08/78	0	1	
BICA0107	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/07/78-10/07/78	0	1	
BICA0115	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/05/74-05/05/74	0	1	
BICA0116	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/08/78-10/08/78	0	1	
BICA0117	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/08/78-10/08/78	0	1	
BICA0120	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/04/74-05/04/74	0	1	
BICA0123	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/05/74-05/05/74	0	1	
BICA0126	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/14/78-10/14/78	0	1	
BICA0127	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/04/74-05/04/74	0	1	
BICA0130	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/15/78-10/15/78	0	1	
BICA0131	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/15/78-10/15/78	0	1	
BICA0133	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/15/79-10/15/79	0	1	
BICA0134	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/04/74-05/04/74	0	1	
BICA0137	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/15/78-10/15/78	0	1	
BICA0138	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/08/78-10/08/78	0	1	
BICA0139	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	01/11/77-07/06/77	0	4	
BICA0144	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/78-10/29/78	0	1	
BICA0147	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/15/78-10/29/78	0	2	
BICA0150	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/15/78-10/15/78	0	1	
BICA0152	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	12/15/67-04/08/70	2	2	
BICA0153	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	12/15/67-04/08/70	2	2	
BICA0158	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/08/70-04/08/70	0	1	
BICA0159	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/08/70-04/08/70	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0160	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/15/78-10/15/78	0	1	
BICA0161	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/78-10/29/78	0	1	
BICA0162	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/08/70-04/08/70	0	1	
BICA0165	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	12/15/67-04/08/70	2	2	
BICA0166	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/15/78-10/15/78	0	1	
BICA0167	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/78-10/29/78	0	1	
BICA0168	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/14/78-10/14/78	0	1	
BICA0169	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/29/68-06/16/69	0	3	
BICA0170	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	12/15/67-04/08/70	2	2	
BICA0171	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/17/78-10/17/78	0	1	
BICA0180	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-08/25/81	14	216	
BICA0182	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/06/68-09/02/68	0	4	
BICA0186	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	01/11/77-07/06/77	0	4	
BICA0187	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/78-10/29/78	0	1	
BICA0188	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/78-10/29/78	0	1	
BICA0198	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/05/78-11/05/78	0	1	
BICA0199	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/31/74-04/20/83	9	7	
BICA0201	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/05/78-11/05/78	0	1	
BICA0204	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/07/78-11/07/78	0	1	
BICA0207	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/19/73-11/19/73	0	1	
BICA0209	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	01/12/77-04/20/83	6	5	
BICA0210	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/16/76-09/16/76	0	1	
BICA0001	No	00931	SODIUM ADSORPTION RATIO	02/26/73-12/11/74	1	9	
BICA0002	No	00931	SODIUM ADSORPTION RATIO	03/11/53-02/16/83	29	463	T,A,S
BICA0019	No	00931	SODIUM ADSORPTION RATIO	10/01/66-03/21/83	16	274	A
BICA0026	No	00931	SODIUM ADSORPTION RATIO	08/20/58-09/16/68	10	162	
BICA0036	Yes	00931	SODIUM ADSORPTION RATIO	12/16/68-10/26/70	1	8	
BICA0061	No	00931	SODIUM ADSORPTION RATIO	05/27/57-05/27/57	0	1	
BICA0152	Yes	00931	SODIUM ADSORPTION RATIO	12/15/67-04/08/70	2	2	
BICA0153	Yes	00931	SODIUM ADSORPTION RATIO	12/15/67-04/08/70	2	2	
BICA0158	Yes	00931	SODIUM ADSORPTION RATIO	04/08/70-04/08/70	0	1	
BICA0159	Yes	00931	SODIUM ADSORPTION RATIO	04/08/70-04/08/70	0	1	
BICA0162	Yes	00931	SODIUM ADSORPTION RATIO	04/08/70-04/08/70	0	1	
BICA0165	Yes	00931	SODIUM ADSORPTION RATIO	12/15/67-04/08/70	2	2	
BICA0169	Yes	00931	SODIUM ADSORPTION RATIO	07/29/68-06/16/69	0	3	
BICA0170	Yes	00931	SODIUM ADSORPTION RATIO	12/15/67-04/08/70	2	2	
BICA0180	Yes	00931	SODIUM ADSORPTION RATIO	10/01/66-08/25/81	14	216	
BICA0182	Yes	00931	SODIUM ADSORPTION RATIO	03/06/68-09/02/68	0	4	
BICA0001	No	00932	SODIUM, PERCENT	02/26/73-12/11/74	1	9	
BICA0002	No	00932	SODIUM, PERCENT	12/01/49-02/16/83	33	347	T,A,S
BICA0019	No	00932	SODIUM, PERCENT	10/01/66-03/21/83	16	273	A
BICA0026	No	00932	SODIUM, PERCENT	08/20/58-09/16/68	10	76	
BICA0036	Yes	00932	SODIUM, PERCENT	12/16/68-10/26/70	1	8	
BICA0180	Yes	00932	SODIUM, PERCENT	10/01/66-08/25/81	14	216	
BICA0002	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	12/01/49-06/02/51	1	19	
BICA0019	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	07/22/79-02/20/80	0	7	
BICA0180	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	05/08/79-02/18/80	0	9	
BICA0001	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/26/73-12/11/74	1	9	
BICA0002	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/11/53-06/06/86	33	474	T,A,S
BICA0019	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-07/09/87	20	291	T,A
BICA0026	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/20/58-09/16/68	10	162	
BICA0036	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/16/68-10/26/70	1	8	
BICA0064	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/26/88-07/26/88	0	1	
BICA0097	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/08/78-10/08/78	0	1	
BICA0104	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/08/78-10/08/78	0	1	
BICA0105	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/08/78-10/08/78	0	1	
BICA0107	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/07/78-10/07/78	0	1	
BICA0116	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/08/78-10/08/78	0	1	
BICA0117	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/08/78-10/08/78	0	1	
BICA0125	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/08/78-10/08/78	0	1	
BICA0126	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/14/78-10/14/78	0	1	
BICA0130	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/78-10/15/78	0	1	
BICA0131	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/78-10/15/78	0	1	
BICA0133	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/79-10/15/79	0	1	
BICA0137	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/78-10/15/78	0	1	
BICA0138	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/08/78-10/08/78	0	1	
BICA0139	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/77-07/06/77	0	4	
BICA0144	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/78-10/29/78	0	1	
BICA0146	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/78-10/15/78	0	1	
BICA0147	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/78-10/29/78	0	2	
BICA0150	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/78-10/15/78	0	1	
BICA0152	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/15/67-04/08/70	2	2	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0153	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/15/67-04/08/70	2	2	
BICA0157	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/78-10/15/78	0	1	
BICA0158	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/08/70-04/08/70	0	1	
BICA0159	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/08/70-04/08/70	0	1	
BICA0160	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/78-10/15/78	0	1	
BICA0161	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/78-10/29/78	0	1	
BICA0162	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/08/70-04/08/70	0	1	
BICA0165	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/15/67-04/08/70	2	2	
BICA0166	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/78-10/15/78	0	1	
BICA0167	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/78-10/29/78	0	1	
BICA0168	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/14/78-10/14/78	0	1	
BICA0169	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/29/68-06/16/69	0	3	
BICA0170	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/15/67-04/08/70	2	2	
BICA0171	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/17/78-10/17/78	0	1	
BICA0180	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-08/25/81	14	218	
BICA0182	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/06/68-09/02/68	0	4	
BICA0185	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/78-10/15/78	0	1	
BICA0186	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/77-07/06/77	0	4	
BICA0187	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/78-10/29/78	0	1	
BICA0188	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/78-10/29/78	0	1	
BICA0193	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/78-10/15/78	0	1	
BICA0194	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/78-10/15/78	0	1	
BICA0197	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/05/78-11/05/78	0	1	
BICA0198	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/05/78-11/05/78	0	1	
BICA0199	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	01/12/77-04/20/83	6	5	
BICA0201	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/05/78-11/05/78	0	1	
BICA0202	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/05/78-11/05/78	0	1	
BICA0203	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/05/78-11/05/78	0	1	
BICA0204	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/07/78-11/07/78	0	1	
BICA0205	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/05/78-11/05/78	0	1	
BICA0206	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/05/78-11/05/78	0	1	
BICA0209	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	01/12/77-04/20/83	6	5	
BICA0210	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/16/76-09/16/76	0	1	
BICA0006	No	00937	POTASSIUM, TOTAL MG/L AS K)	02/22/68-08/18/69	1	40	
BICA0029	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	02/22/68-08/18/69	1	45	
BICA0061	No	00937	POTASSIUM, TOTAL MG/L AS K)	05/27/57-05/27/57	0	1	
BICA0177	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	02/22/68-08/18/69	1	46	
BICA0001	No	00940	CHLORIDE,TOTAL IN WATER MG/L	02/26/73-12/11/74	1	10	
BICA0002	No	00940	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	39	524	T,A,S
BICA0006	No	00940	CHLORIDE,TOTAL IN WATER MG/L	02/22/68-08/18/69	1	40	
BICA0019	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-07/09/87	20	291	T,A
BICA0026	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/20/58-09/16/68	10	162	
BICA0029	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	02/22/68-08/18/69	1	45	
BICA0036	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	12/16/68-10/26/70	1	8	
BICA0061	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/27/57-05/27/57	0	1	
BICA0064	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/26/88-07/26/88	0	1	
BICA0067	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	05/05/74-05/05/74	0	1	
BICA0115	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	05/05/74-05/05/74	0	1	
BICA0120	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/74-05/04/74	0	1	
BICA0123	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	05/05/74-05/05/74	0	1	
BICA0127	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/74-05/04/74	0	1	
BICA0134	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/74-05/04/74	0	1	
BICA0139	No	00940	CHLORIDE,TOTAL IN WATER MG/L	01/11/77-07/06/77	0	4	
BICA0152	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	12/15/67-04/08/70	2	2	
BICA0153	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	12/15/67-04/08/70	2	2	
BICA0158	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	04/08/70-04/08/70	0	1	
BICA0159	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	04/08/70-04/08/70	0	1	
BICA0162	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	04/08/70-04/08/70	0	1	
BICA0165	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	12/15/67-04/08/70	2	2	
BICA0169	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	07/29/68-06/16/69	0	3	
BICA0170	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	12/15/67-04/08/70	2	2	
BICA0177	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	02/22/68-08/18/69	1	46	
BICA0180	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-08/25/81	14	217	
BICA0182	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	03/06/68-09/02/68	0	4	
BICA0186	No	00940	CHLORIDE,TOTAL IN WATER MG/L	01/11/77-07/06/77	0	4	
BICA0199	No	00940	CHLORIDE,TOTAL IN WATER MG/L	03/31/74-04/20/83	9	7	
BICA0207	No	00940	CHLORIDE,TOTAL IN WATER MG/L	11/19/73-11/19/73	0	1	
BICA0209	No	00940	CHLORIDE,TOTAL IN WATER MG/L	01/12/77-04/20/83	6	5	
BICA0210	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/16/76-09/16/76	0	1	
BICA0001	No	00945	SULFATE, TOTAL (MG/L AS SO4)	02/26/73-12/11/74	1	9	
BICA0002	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	39	525	T,A,S
BICA0006	No	00945	SULFATE, TOTAL (MG/L AS SO4)	02/22/68-08/18/69	1	39	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0019	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-07/09/87	20	291	T,A
BICA0026	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/20/58-09/16/68	10	162	
BICA0029	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	02/22/68-08/18/69	1	45	
BICA0036	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	12/16/68-10/26/70	1	8	
BICA0057	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	07/15/56-07/15/56	0	1	
BICA0061	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/27/57-05/27/57	0	1	
BICA0064	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/26/88-07/26/88	0	1	
BICA0067	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	05/05/74-05/05/74	0	1	
BICA0115	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	05/05/74-05/05/74	0	1	
BICA0120	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/74-05/04/74	0	1	
BICA0123	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	05/05/74-05/05/74	0	1	
BICA0127	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/74-05/04/74	0	1	
BICA0134	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/74-05/04/74	0	1	
BICA0139	No	00945	SULFATE, TOTAL (MG/L AS SO4)	01/11/77-07/06/77	0	4	
BICA0152	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	12/15/67-04/08/70	2	2	
BICA0153	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	12/15/67-04/08/70	2	2	
BICA0158	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	04/08/70-04/08/70	0	1	
BICA0159	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	04/08/70-04/08/70	0	1	
BICA0162	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	04/08/70-04/08/70	0	1	
BICA0165	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	12/15/67-04/08/70	2	2	
BICA0169	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	07/29/68-06/16/69	0	3	
BICA0170	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	12/15/67-04/08/70	2	2	
BICA0177	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	02/22/68-08/18/69	1	45	
BICA0180	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-08/25/81	14	224	
BICA0182	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	03/06/68-09/02/68	0	4	
BICA0186	No	00945	SULFATE, TOTAL (MG/L AS SO4)	01/11/77-07/06/77	0	4	
BICA0199	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/31/74-04/20/83	9	7	
BICA0207	No	00945	SULFATE, TOTAL (MG/L AS SO4)	11/19/73-11/19/73	0	1	
BICA0209	No	00945	SULFATE, TOTAL (MG/L AS SO4)	01/12/77-04/20/83	6	5	
BICA0210	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/16/76-09/16/76	0	1	
BICA0002	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	39	497	T,A,S
BICA0019	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-07/09/87	20	291	T,A
BICA0026	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/20/58-09/16/68	10	162	
BICA0064	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/26/88-07/26/88	0	1	
BICA0139	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	01/11/77-07/06/77	0	4	
BICA0152	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/15/67-04/08/70	2	2	
BICA0153	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/15/67-04/08/70	2	2	
BICA0158	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/08/70-04/08/70	0	1	
BICA0159	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/08/70-04/08/70	0	1	
BICA0162	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/08/70-04/08/70	0	1	
BICA0165	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/15/67-04/08/70	2	2	
BICA0169	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/29/68-06/16/69	0	3	
BICA0170	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/15/67-04/08/70	2	2	
BICA0180	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-08/25/81	14	217	
BICA0182	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/06/68-09/02/68	0	4	
BICA0186	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	01/11/77-07/06/77	0	4	
BICA0199	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/31/74-07/06/77	3	5	
BICA0209	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	01/12/77-07/14/77	0	4	
BICA0006	No	00951	FLUORIDE, TOTAL (MG/L AS F)	02/22/68-08/18/69	1	40	
BICA0015	No	00951	FLUORIDE, TOTAL (MG/L AS F)	02/15/83-08/07/85	2	11	
BICA0029	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	02/22/68-08/18/69	1	45	
BICA0032	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	06/13/84-08/07/85	1	6	
BICA0055	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	06/13/84-08/07/85	1	6	
BICA0177	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	02/22/68-08/18/69	1	45	
BICA0001	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	02/26/73-12/05/73	0	5	
BICA0002	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	43	508	T,A,S
BICA0019	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-07/09/87	20	291	T,A
BICA0026	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/20/58-09/16/68	10	162	
BICA0036	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	12/16/68-10/26/70	1	8	
BICA0064	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/26/88-07/26/88	0	1	
BICA0139	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/77-07/06/77	0	4	
BICA0152	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	12/15/67-04/08/70	2	2	
BICA0153	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	12/15/67-04/08/70	2	2	
BICA0158	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/08/70-04/08/70	0	1	
BICA0159	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/08/70-04/08/70	0	1	
BICA0162	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/08/70-04/08/70	0	1	
BICA0165	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	12/15/67-04/08/70	2	2	
BICA0169	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/29/68-06/16/69	0	3	
BICA0170	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	12/15/67-04/08/70	2	2	
BICA0180	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-08/25/81	14	216	
BICA0182	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/06/68-09/02/68	0	4	
BICA0186	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/77-07/06/77	0	4	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0199	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	01/12/77-07/06/77	0	4	
BICA0209	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	01/12/77-07/14/77	0	4	
BICA0006	No	00956	SILICA, TOTAL (MG/L AS SI02)	03/07/68-08/18/69	1	37	
BICA0029	Yes	00956	SILICA, TOTAL (MG/L AS SI02)	03/07/68-08/18/69	1	43	
BICA0177	Yes	00956	SILICA, TOTAL (MG/L AS SI02)	03/07/68-08/18/69	1	44	
BICA0001	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	02/26/73-12/05/73	0	5	
BICA0002	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/01/70-03/14/91	20	24	
BICA0014	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	02/08/73-02/08/73	0	1	
BICA0019	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	11/03/70-11/03/70	0	1	
BICA0139	No	01002	ARSENIC, TOTAL (UG/L AS AS)	01/11/77-07/06/77	0	4	
BICA0186	No	01002	ARSENIC, TOTAL (UG/L AS AS)	01/11/77-07/06/77	0	4	
BICA0199	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/31/74-07/06/77	3	5	
BICA0207	No	01002	ARSENIC, TOTAL (UG/L AS AS)	11/19/73-11/19/73	0	1	
BICA0209	No	01002	ARSENIC, TOTAL (UG/L AS AS)	01/12/77-07/14/77	0	4	
BICA0002	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/01/70-03/14/91	20	20	
BICA0014	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	02/08/73-02/08/73	0	1	
BICA0097	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/08/78-10/08/78	0	1	
BICA0104	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/08/78-10/08/78	0	1	
BICA0105	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/08/78-10/08/78	0	1	
BICA0107	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/07/78-10/07/78	0	1	
BICA0116	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/08/78-10/08/78	0	1	
BICA0117	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/08/78-10/08/78	0	1	
BICA0125	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/08/78-10/08/78	0	1	
BICA0126	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/14/78-10/14/78	0	1	
BICA0130	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/15/78-10/15/78	0	1	
BICA0131	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/15/78-10/15/78	0	1	
BICA0133	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/15/79-10/15/79	0	1	
BICA0137	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/15/78-10/15/78	0	1	
BICA0138	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/08/78-10/08/78	0	1	
BICA0144	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/29/78-10/29/78	0	1	
BICA0146	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/15/78-10/15/78	0	1	
BICA0147	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/15/78-10/29/78	0	2	
BICA0150	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/15/78-10/15/78	0	1	
BICA0157	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/15/78-10/15/78	0	1	
BICA0160	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/15/78-10/15/78	0	1	
BICA0161	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/29/78-10/29/78	0	1	
BICA0166	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/15/78-10/15/78	0	1	
BICA0167	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/29/78-10/29/78	0	1	
BICA0168	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/14/78-10/14/78	0	1	
BICA0171	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/17/78-10/17/78	0	1	
BICA0185	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/15/78-10/15/78	0	1	
BICA0187	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/29/78-10/29/78	0	1	
BICA0188	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/29/78-10/29/78	0	1	
BICA0193	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/15/78-10/15/78	0	1	
BICA0194	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/15/78-10/15/78	0	1	
BICA0197	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	11/05/78-11/05/78	0	1	
BICA0198	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	11/05/78-11/05/78	0	1	
BICA0201	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	11/05/78-11/05/78	0	1	
BICA0202	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	11/05/78-11/05/78	0	1	
BICA0203	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	11/05/78-11/05/78	0	1	
BICA0204	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	11/07/78-11/07/78	0	1	
BICA0205	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	11/05/78-11/05/78	0	1	
BICA0206	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	11/05/78-11/05/78	0	1	
BICA0002	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/01/70-03/14/91	20	19	
BICA0097	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/08/78-10/08/78	0	1	
BICA0104	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/08/78-10/08/78	0	1	
BICA0105	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/08/78-10/08/78	0	1	
BICA0107	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/07/78-10/07/78	0	1	
BICA0116	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/08/78-10/08/78	0	1	
BICA0117	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/08/78-10/08/78	0	1	
BICA0125	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/08/78-10/08/78	0	1	
BICA0126	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/14/78-10/14/78	0	1	
BICA0130	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/15/78-10/15/78	0	1	
BICA0131	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/15/78-10/15/78	0	1	
BICA0133	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/15/79-10/15/79	0	1	
BICA0137	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/15/78-10/15/78	0	1	
BICA0138	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/08/78-10/08/78	0	1	
BICA0144	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/29/78-10/29/78	0	1	
BICA0146	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/15/78-10/15/78	0	1	
BICA0147	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/15/78-10/29/78	0	2	
BICA0150	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/15/78-10/15/78	0	1	
BICA0157	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/15/78-10/15/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0160	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/15/78-10/15/78	0	1	
BICA0161	Yes	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/29/78-10/29/78	0	1	
BICA0166	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/15/78-10/15/78	0	1	
BICA0167	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/29/78-10/29/78	0	1	
BICA0168	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/14/78-10/14/78	0	1	
BICA0171	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/17/78-10/17/78	0	1	
BICA0185	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/15/78-10/15/78	0	1	
BICA0187	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/29/78-10/29/78	0	1	
BICA0188	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/29/78-10/29/78	0	1	
BICA0193	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/15/78-10/15/78	0	1	
BICA0194	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/15/78-10/15/78	0	1	
BICA0197	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/05/78-11/05/78	0	1	
BICA0198	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/05/78-11/05/78	0	1	
BICA0201	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/05/78-11/05/78	0	1	
BICA0202	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/05/78-11/05/78	0	1	
BICA0203	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/05/78-11/05/78	0	1	
BICA0204	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/07/78-11/07/78	0	1	
BICA0205	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/05/78-11/05/78	0	1	
BICA0206	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/05/78-11/05/78	0	1	
BICA0139	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	01/11/77-07/06/77	0	4	
BICA0186	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	01/11/77-07/06/77	0	4	
BICA0199	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	01/12/77-07/06/77	0	4	
BICA0209	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	01/12/77-07/14/77	0	4	
BICA0002	No	01015	BISMUTH, DISSOLVED (UG/L AS BI)	10/01/70-04/13/71	0	3	
BICA0001	No	01020	BORON, DISSOLVED (UG/L AS B)	02/26/73-12/05/73	0	5	
BICA0002	No	01020	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	42	366	T,A,S
BICA0019	No	01020	BORON, DISSOLVED (UG/L AS B)	10/01/66-01/11/76	9	201	
BICA0026	No	01020	BORON, DISSOLVED (UG/L AS B)	08/20/58-09/16/68	10	162	
BICA0036	Yes	01020	BORON, DISSOLVED (UG/L AS B)	12/16/68-10/26/70	1	8	
BICA0064	No	01020	BORON, DISSOLVED (UG/L AS B)	07/26/88-07/26/88	0	1	
BICA0097	No	01020	BORON, DISSOLVED (UG/L AS B)	10/08/78-10/08/78	0	1	
BICA0104	No	01020	BORON, DISSOLVED (UG/L AS B)	10/08/78-10/08/78	0	1	
BICA0105	No	01020	BORON, DISSOLVED (UG/L AS B)	10/08/78-10/08/78	0	1	
BICA0107	No	01020	BORON, DISSOLVED (UG/L AS B)	10/07/78-10/07/78	0	1	
BICA0116	No	01020	BORON, DISSOLVED (UG/L AS B)	10/08/78-10/08/78	0	1	
BICA0117	No	01020	BORON, DISSOLVED (UG/L AS B)	10/08/78-10/08/78	0	1	
BICA0125	No	01020	BORON, DISSOLVED (UG/L AS B)	10/08/78-10/08/78	0	1	
BICA0126	No	01020	BORON, DISSOLVED (UG/L AS B)	10/14/78-10/14/78	0	1	
BICA0130	No	01020	BORON, DISSOLVED (UG/L AS B)	10/15/78-10/15/78	0	1	
BICA0131	No	01020	BORON, DISSOLVED (UG/L AS B)	10/15/78-10/15/78	0	1	
BICA0133	No	01020	BORON, DISSOLVED (UG/L AS B)	10/15/79-10/15/79	0	1	
BICA0137	No	01020	BORON, DISSOLVED (UG/L AS B)	10/15/78-10/15/78	0	1	
BICA0138	No	01020	BORON, DISSOLVED (UG/L AS B)	10/08/78-10/08/78	0	1	
BICA0144	No	01020	BORON, DISSOLVED (UG/L AS B)	10/29/78-10/29/78	0	1	
BICA0146	No	01020	BORON, DISSOLVED (UG/L AS B)	10/15/78-10/15/78	0	1	
BICA0147	No	01020	BORON, DISSOLVED (UG/L AS B)	10/15/78-10/29/78	0	2	
BICA0150	No	01020	BORON, DISSOLVED (UG/L AS B)	10/15/78-10/15/78	0	1	
BICA0152	Yes	01020	BORON, DISSOLVED (UG/L AS B)	12/15/67-12/15/67	0	1	
BICA0153	Yes	01020	BORON, DISSOLVED (UG/L AS B)	12/15/67-12/15/67	0	1	
BICA0157	No	01020	BORON, DISSOLVED (UG/L AS B)	10/15/78-10/15/78	0	1	
BICA0160	No	01020	BORON, DISSOLVED (UG/L AS B)	10/15/78-10/15/78	0	1	
BICA0161	Yes	01020	BORON, DISSOLVED (UG/L AS B)	10/29/78-10/29/78	0	1	
BICA0165	Yes	01020	BORON, DISSOLVED (UG/L AS B)	12/15/67-12/15/67	0	1	
BICA0166	No	01020	BORON, DISSOLVED (UG/L AS B)	10/15/78-10/15/78	0	1	
BICA0167	No	01020	BORON, DISSOLVED (UG/L AS B)	10/29/78-10/29/78	0	1	
BICA0168	No	01020	BORON, DISSOLVED (UG/L AS B)	10/14/78-10/14/78	0	1	
BICA0169	Yes	01020	BORON, DISSOLVED (UG/L AS B)	07/29/68-06/16/69	0	3	
BICA0170	Yes	01020	BORON, DISSOLVED (UG/L AS B)	12/15/67-12/15/67	0	1	
BICA0171	No	01020	BORON, DISSOLVED (UG/L AS B)	10/17/78-10/17/78	0	1	
BICA0180	Yes	01020	BORON, DISSOLVED (UG/L AS B)	10/01/66-06/06/74	7	79	
BICA0182	Yes	01020	BORON, DISSOLVED (UG/L AS B)	03/06/68-09/02/68	0	4	
BICA0185	No	01020	BORON, DISSOLVED (UG/L AS B)	10/15/78-10/15/78	0	1	
BICA0187	No	01020	BORON, DISSOLVED (UG/L AS B)	10/29/78-10/29/78	0	1	
BICA0188	No	01020	BORON, DISSOLVED (UG/L AS B)	10/29/78-10/29/78	0	1	
BICA0193	No	01020	BORON, DISSOLVED (UG/L AS B)	10/15/78-10/15/78	0	1	
BICA0194	No	01020	BORON, DISSOLVED (UG/L AS B)	10/15/78-10/15/78	0	1	
BICA0197	No	01020	BORON, DISSOLVED (UG/L AS B)	11/05/78-11/05/78	0	1	
BICA0198	No	01020	BORON, DISSOLVED (UG/L AS B)	11/05/78-11/05/78	0	1	
BICA0201	No	01020	BORON, DISSOLVED (UG/L AS B)	11/05/78-11/05/78	0	1	
BICA0202	No	01020	BORON, DISSOLVED (UG/L AS B)	11/05/78-11/05/78	0	1	
BICA0203	No	01020	BORON, DISSOLVED (UG/L AS B)	11/05/78-11/05/78	0	1	
BICA0204	No	01020	BORON, DISSOLVED (UG/L AS B)	11/07/78-11/07/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0205	No	01020	BORON, DISSOLVED (UG/L AS B)	11/05/78-11/05/78	0	1	
BICA0206	No	01020	BORON, DISSOLVED (UG/L AS B)	11/05/78-11/05/78	0	1	
BICA0002	No	01022	BORON, TOTAL (UG/L AS B)	06/27/50-06/27/50	0	1	
BICA0139	No	01022	BORON, TOTAL (UG/L AS B)	01/11/77-07/06/77	0	4	
BICA0186	No	01022	BORON, TOTAL (UG/L AS B)	01/11/77-07/06/77	0	4	
BICA0199	No	01022	BORON, TOTAL (UG/L AS B)	01/12/77-07/06/77	0	4	
BICA0209	No	01022	BORON, TOTAL (UG/L AS B)	01/12/77-07/14/77	0	4	
BICA0002	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/01/70-03/14/91	20	23	
BICA0003	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	07/19/72-10/31/73	1	7	
BICA0014	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	02/08/73-02/08/73	0	1	
BICA0019	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	11/03/70-11/03/70	0	1	
BICA0067	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	05/05/74-05/05/74	0	1	
BICA0115	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	05/05/74-05/05/74	0	1	
BICA0120	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	05/04/74-05/04/74	0	1	
BICA0123	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	05/05/74-05/05/74	0	1	
BICA0127	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	05/04/74-05/04/74	0	1	
BICA0134	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	05/04/74-05/04/74	0	1	
BICA0139	No	01027	CADMIUM, TOTAL (UG/L AS CD)	01/11/77-07/06/77	0	4	
BICA0186	No	01027	CADMIUM, TOTAL (UG/L AS CD)	01/11/77-07/06/77	0	4	
BICA0199	No	01027	CADMIUM, TOTAL (UG/L AS CD)	12/20/73-07/06/77	3	7	
BICA0207	No	01027	CADMIUM, TOTAL (UG/L AS CD)	11/19/73-11/19/73	0	1	
BICA0208	No	01027	CADMIUM, TOTAL (UG/L AS CD)	12/20/73-12/20/73	0	1	
BICA0209	No	01027	CADMIUM, TOTAL (UG/L AS CD)	01/12/77-07/14/77	0	4	
BICA0002	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/01/70-03/14/91	20	25	
BICA0003	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/19/72-10/31/73	1	7	
BICA0071	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/06/78-07/06/78	0	1	
BICA0076	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/05/78-07/05/78	0	1	
BICA0078	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/05/78-07/05/78	0	1	
BICA0081	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/05/78-07/05/78	0	1	
BICA0082	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/05/78-07/05/78	0	1	
BICA0085	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/05/78-07/05/78	0	1	
BICA0086	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/05/78-07/05/78	0	1	
BICA0088	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/30/78-06/30/78	0	1	
BICA0089	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/30/78-06/30/78	0	1	
BICA0090	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/15/78-07/15/78	0	1	
BICA0091	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/30/78-06/30/78	0	1	
BICA0092	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/15/78-07/15/78	0	1	
BICA0093	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/30/78-06/30/78	0	1	
BICA0094	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/30/78-06/30/78	0	1	
BICA0095	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/05/78-07/05/78	0	1	
BICA0096	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/15/78-07/15/78	0	1	
BICA0097	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/08/78-10/08/78	0	1	
BICA0098	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/05/78-07/05/78	0	1	
BICA0101	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/05/78-07/05/78	0	1	
BICA0102	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/05/78-07/05/78	0	1	
BICA0103	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/05/78-07/05/78	0	1	
BICA0104	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/08/78-10/08/78	0	1	
BICA0105	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/08/78-10/08/78	0	1	
BICA0106	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/30/78-06/30/78	0	1	
BICA0107	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/07/78-10/07/78	0	1	
BICA0108	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/30/78-06/30/78	0	1	
BICA0109	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/30/78-06/30/78	0	1	
BICA0110	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/05/78-07/05/78	0	1	
BICA0111	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/14/78-04/14/78	0	1	
BICA0112	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/14/78-07/14/78	0	1	
BICA0114	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/14/78-07/14/78	0	1	
BICA0116	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/08/78-10/08/78	0	1	
BICA0117	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/08/78-10/08/78	0	1	
BICA0118	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/14/78-07/14/78	0	1	
BICA0119	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/14/78-07/14/78	0	1	
BICA0121	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/14/78-07/14/78	0	1	
BICA0122	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/14/78-07/14/78	0	1	
BICA0125	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/08/78-10/08/78	0	1	
BICA0126	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/14/78-10/14/78	0	1	
BICA0130	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/15/78-10/15/78	0	1	
BICA0131	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/15/78-10/15/78	0	1	
BICA0133	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/15/79-10/15/79	0	1	
BICA0135	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	0	1	
BICA0137	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/15/78-10/15/78	0	1	
BICA0138	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/08/78-10/08/78	0	1	
BICA0141	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	0	1	
BICA0144	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/29/78-10/29/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0145	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	0	1	
BICA0146	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/15/78-10/15/78	0	1	
BICA0147	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/15/78-10/29/78	0	2	
BICA0150	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/15/78-10/15/78	0	1	
BICA0151	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	0	1	
BICA0154	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	0	1	
BICA0155	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	0	1	
BICA0156	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	0	1	
BICA0157	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/15/78-10/15/78	0	1	
BICA0160	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/15/78-10/15/78	0	1	
BICA0161	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/29/78-10/29/78	0	1	
BICA0163	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	0	1	
BICA0166	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/15/78-10/15/78	0	1	
BICA0167	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/29/78-10/29/78	0	1	
BICA0168	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/14/78-10/14/78	0	1	
BICA0171	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/17/78-10/17/78	0	1	
BICA0179	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	0	1	
BICA0183	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	0	1	
BICA0185	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/15/78-10/15/78	0	1	
BICA0187	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/29/78-10/29/78	0	1	
BICA0188	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/29/78-10/29/78	0	1	
BICA0189	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	0	1	
BICA0191	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	0	1	
BICA0192	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	0	1	
BICA0193	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/15/78-10/15/78	0	1	
BICA0194	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/15/78-10/15/78	0	1	
BICA0196	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	0	1	
BICA0197	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	11/05/78-11/05/78	0	1	
BICA0198	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	11/05/78-11/05/78	0	1	
BICA0200	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/19/79-01/19/79	0	1	
BICA0201	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	11/05/78-11/05/78	0	1	
BICA0202	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	11/05/78-11/05/78	0	1	
BICA0203	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	11/05/78-11/05/78	0	1	
BICA0204	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	11/07/78-11/07/78	0	1	
BICA0205	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	11/05/78-11/05/78	0	1	
BICA0206	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	11/05/78-11/05/78	0	1	
BICA0014	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	02/08/73-02/08/73	0	1	
BICA0019	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	11/03/70-11/03/70	0	1	
BICA0019	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	11/03/70-11/03/70	0	1	
BICA0139	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	01/11/77-07/06/77	0	4	
BICA0186	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	01/11/77-07/06/77	0	4	
BICA0199	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	01/12/77-07/06/77	0	4	
BICA0209	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	01/12/77-07/14/77	0	4	
BICA0002	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/01/70-03/14/91	20	14	
BICA0019	No	01035	COBALT, DISSOLVED (UG/L AS CO)	11/03/70-11/03/70	0	1	
BICA0071	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	07/06/78-07/06/78	0	1	
BICA0076	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	07/05/78-07/05/78	0	1	
BICA0078	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	07/05/78-07/05/78	0	1	
BICA0081	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	07/05/78-07/05/78	0	1	
BICA0082	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	07/05/78-07/05/78	0	1	
BICA0085	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	07/05/78-07/05/78	0	1	
BICA0086	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	07/05/78-07/05/78	0	1	
BICA0088	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	06/30/78-06/30/78	0	1	
BICA0089	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	06/30/78-06/30/78	0	1	
BICA0090	No	01035	COBALT, DISSOLVED (UG/L AS CO)	07/15/78-07/15/78	0	1	
BICA0091	No	01035	COBALT, DISSOLVED (UG/L AS CO)	06/30/78-06/30/78	0	1	
BICA0092	No	01035	COBALT, DISSOLVED (UG/L AS CO)	07/15/78-07/15/78	0	1	
BICA0093	No	01035	COBALT, DISSOLVED (UG/L AS CO)	06/30/78-06/30/78	0	1	
BICA0094	No	01035	COBALT, DISSOLVED (UG/L AS CO)	06/30/78-06/30/78	0	1	
BICA0095	No	01035	COBALT, DISSOLVED (UG/L AS CO)	07/05/78-07/05/78	0	1	
BICA0096	No	01035	COBALT, DISSOLVED (UG/L AS CO)	07/15/78-07/15/78	0	1	
BICA0097	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/08/78-10/08/78	0	1	
BICA0098	No	01035	COBALT, DISSOLVED (UG/L AS CO)	07/05/78-07/05/78	0	1	
BICA0101	No	01035	COBALT, DISSOLVED (UG/L AS CO)	07/05/78-07/05/78	0	1	
BICA0102	No	01035	COBALT, DISSOLVED (UG/L AS CO)	07/05/78-07/05/78	0	1	
BICA0103	No	01035	COBALT, DISSOLVED (UG/L AS CO)	07/05/78-07/05/78	0	1	
BICA0104	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/08/78-10/08/78	0	1	
BICA0105	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/08/78-10/08/78	0	1	
BICA0106	No	01035	COBALT, DISSOLVED (UG/L AS CO)	06/30/78-06/30/78	0	1	
BICA0107	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/07/78-10/07/78	0	1	
BICA0108	No	01035	COBALT, DISSOLVED (UG/L AS CO)	06/30/78-06/30/78	0	1	
BICA0109	No	01035	COBALT, DISSOLVED (UG/L AS CO)	06/30/78-06/30/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0110	No	01035	COBALT, DISSOLVED (UG/L AS CO)	07/05/78-07/05/78	0	1	
BICA0111	No	01035	COBALT, DISSOLVED (UG/L AS CO)	04/14/78-04/14/78	0	1	
BICA0112	No	01035	COBALT, DISSOLVED (UG/L AS CO)	07/14/78-07/14/78	0	1	
BICA0114	No	01035	COBALT, DISSOLVED (UG/L AS CO)	07/14/78-07/14/78	0	1	
BICA0116	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/08/78-10/08/78	0	1	
BICA0117	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/08/78-10/08/78	0	1	
BICA0118	No	01035	COBALT, DISSOLVED (UG/L AS CO)	07/14/78-07/14/78	0	1	
BICA0119	No	01035	COBALT, DISSOLVED (UG/L AS CO)	07/14/78-07/14/78	0	1	
BICA0121	No	01035	COBALT, DISSOLVED (UG/L AS CO)	07/14/78-07/14/78	0	1	
BICA0122	No	01035	COBALT, DISSOLVED (UG/L AS CO)	07/14/78-07/14/78	0	1	
BICA0125	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/08/78-10/08/78	0	1	
BICA0126	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/14/78-10/14/78	0	1	
BICA0130	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/78-10/15/78	0	1	
BICA0131	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/78-10/15/78	0	1	
BICA0133	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/79-10/15/79	0	1	
BICA0135	No	01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	0	1	
BICA0137	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/78-10/15/78	0	1	
BICA0138	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/08/78-10/08/78	0	1	
BICA0141	No	01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	0	1	
BICA0144	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/29/78-10/29/78	0	1	
BICA0145	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	0	1	
BICA0146	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/78-10/15/78	0	1	
BICA0147	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/78-10/29/78	0	2	
BICA0150	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/78-10/15/78	0	1	
BICA0151	No	01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	0	1	
BICA0154	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	0	1	
BICA0155	No	01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	0	1	
BICA0156	No	01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	0	1	
BICA0157	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/78-10/15/78	0	1	
BICA0160	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/78-10/15/78	0	1	
BICA0161	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	10/29/78-10/29/78	0	1	
BICA0163	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	0	1	
BICA0166	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/78-10/15/78	0	1	
BICA0167	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/29/78-10/29/78	0	1	
BICA0168	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/14/78-10/14/78	0	1	
BICA0171	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/17/78-10/17/78	0	1	
BICA0179	No	01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	0	1	
BICA0183	No	01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	0	1	
BICA0185	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/78-10/15/78	0	1	
BICA0187	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/29/78-10/29/78	0	1	
BICA0188	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/29/78-10/29/78	0	1	
BICA0189	No	01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	0	1	
BICA0191	No	01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	0	1	
BICA0192	No	01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	0	1	
BICA0193	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/78-10/15/78	0	1	
BICA0194	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/78-10/15/78	0	1	
BICA0196	No	01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	0	1	
BICA0197	No	01035	COBALT, DISSOLVED (UG/L AS CO)	11/05/78-11/05/78	0	1	
BICA0198	No	01035	COBALT, DISSOLVED (UG/L AS CO)	11/05/78-11/05/78	0	1	
BICA0200	No	01035	COBALT, DISSOLVED (UG/L AS CO)	01/19/79-01/19/79	0	1	
BICA0201	No	01035	COBALT, DISSOLVED (UG/L AS CO)	11/05/78-11/05/78	0	1	
BICA0202	No	01035	COBALT, DISSOLVED (UG/L AS CO)	11/05/78-11/05/78	0	1	
BICA0203	No	01035	COBALT, DISSOLVED (UG/L AS CO)	11/05/78-11/05/78	0	1	
BICA0204	No	01035	COBALT, DISSOLVED (UG/L AS CO)	11/07/78-11/07/78	0	1	
BICA0205	No	01035	COBALT, DISSOLVED (UG/L AS CO)	11/05/78-11/05/78	0	1	
BICA0206	No	01035	COBALT, DISSOLVED (UG/L AS CO)	11/05/78-11/05/78	0	1	
BICA0139	No	01037	COBALT, TOTAL (UG/L AS CO)	01/11/77-07/06/77	0	4	
BICA0186	No	01037	COBALT, TOTAL (UG/L AS CO)	01/11/77-07/06/77	0	4	
BICA0199	No	01037	COBALT, TOTAL (UG/L AS CO)	01/12/77-07/06/77	0	4	
BICA0209	No	01037	COBALT, TOTAL (UG/L AS CO)	01/12/77-07/14/77	0	4	
BICA0001	No	01040	COPPER, DISSOLVED (UG/L AS CU)	02/26/73-12/05/73	0	5	
BICA0002	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/01/70-03/14/91	20	25	
BICA0003	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/19/72-10/31/73	1	7	
BICA0036	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	12/16/68-10/26/70	1	8	
BICA0071	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	07/06/78-07/06/78	0	1	
BICA0076	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	07/05/78-07/05/78	0	1	
BICA0078	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	07/05/78-07/05/78	0	1	
BICA0081	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	07/05/78-07/05/78	0	1	
BICA0082	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	07/05/78-07/05/78	0	1	
BICA0085	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	07/05/78-07/05/78	0	1	
BICA0086	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	07/05/78-07/05/78	0	1	
BICA0088	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	06/30/78-06/30/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0089	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	06/30/78-06/30/78	0	1	
BICA0090	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/15/78-07/15/78	0	1	
BICA0091	No	01040	COPPER, DISSOLVED (UG/L AS CU)	06/30/78-06/30/78	0	1	
BICA0092	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/15/78-07/15/78	0	1	
BICA0093	No	01040	COPPER, DISSOLVED (UG/L AS CU)	06/30/78-06/30/78	0	1	
BICA0094	No	01040	COPPER, DISSOLVED (UG/L AS CU)	06/30/78-06/30/78	0	1	
BICA0095	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/05/78-07/05/78	0	1	
BICA0096	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/15/78-07/15/78	0	1	
BICA0097	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/08/78-10/08/78	0	1	
BICA0098	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/05/78-07/05/78	0	1	
BICA0101	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/05/78-07/05/78	0	1	
BICA0102	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/05/78-07/05/78	0	1	
BICA0103	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/05/78-07/05/78	0	1	
BICA0104	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/08/78-10/08/78	0	1	
BICA0105	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/08/78-10/08/78	0	1	
BICA0106	No	01040	COPPER, DISSOLVED (UG/L AS CU)	06/30/78-06/30/78	0	1	
BICA0107	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/07/78-10/07/78	0	1	
BICA0108	No	01040	COPPER, DISSOLVED (UG/L AS CU)	06/30/78-06/30/78	0	1	
BICA0109	No	01040	COPPER, DISSOLVED (UG/L AS CU)	06/30/78-06/30/78	0	1	
BICA0110	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/05/78-07/05/78	0	1	
BICA0111	No	01040	COPPER, DISSOLVED (UG/L AS CU)	04/14/78-04/14/78	0	1	
BICA0112	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/14/78-07/14/78	0	1	
BICA0114	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/14/78-07/14/78	0	1	
BICA0116	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/08/78-10/08/78	0	1	
BICA0117	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/08/78-10/08/78	0	1	
BICA0118	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/14/78-07/14/78	0	1	
BICA0119	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/14/78-07/14/78	0	1	
BICA0121	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/14/78-07/14/78	0	1	
BICA0122	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/14/78-07/14/78	0	1	
BICA0125	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/08/78-10/08/78	0	1	
BICA0126	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/14/78-10/14/78	0	1	
BICA0130	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/15/78-10/15/78	0	1	
BICA0131	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/15/78-10/15/78	0	1	
BICA0133	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/15/79-10/15/79	0	1	
BICA0135	No	01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	0	1	
BICA0137	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/15/78-10/15/78	0	1	
BICA0138	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/08/78-10/08/78	0	1	
BICA0141	No	01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	0	1	
BICA0144	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/29/78-10/29/78	0	1	
BICA0145	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	0	1	
BICA0146	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/15/78-10/15/78	0	1	
BICA0147	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/15/78-10/29/78	0	2	
BICA0150	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/15/78-10/15/78	0	1	
BICA0151	No	01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	0	1	
BICA0154	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	0	1	
BICA0155	No	01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	0	1	
BICA0156	No	01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	0	1	
BICA0157	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/15/78-10/15/78	0	1	
BICA0160	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/15/78-10/15/78	0	1	
BICA0161	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	10/29/78-10/29/78	0	1	
BICA0163	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	0	1	
BICA0166	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/15/78-10/15/78	0	1	
BICA0167	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/29/78-10/29/78	0	1	
BICA0168	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/14/78-10/14/78	0	1	
BICA0171	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/17/78-10/17/78	0	1	
BICA0179	No	01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	0	1	
BICA0183	No	01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	0	1	
BICA0185	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/15/78-10/15/78	0	1	
BICA0187	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/29/78-10/29/78	0	1	
BICA0188	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/29/78-10/29/78	0	1	
BICA0189	No	01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	0	1	
BICA0191	No	01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	0	1	
BICA0192	No	01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	0	1	
BICA0193	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/15/78-10/15/78	0	1	
BICA0194	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/15/78-10/15/78	0	1	
BICA0196	No	01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	0	1	
BICA0197	No	01040	COPPER, DISSOLVED (UG/L AS CU)	11/05/78-11/05/78	0	1	
BICA0198	No	01040	COPPER, DISSOLVED (UG/L AS CU)	11/05/78-11/05/78	0	1	
BICA0200	No	01040	COPPER, DISSOLVED (UG/L AS CU)	01/19/79-01/19/79	0	1	
BICA0201	No	01040	COPPER, DISSOLVED (UG/L AS CU)	11/05/78-11/05/78	0	1	
BICA0202	No	01040	COPPER, DISSOLVED (UG/L AS CU)	11/05/78-11/05/78	0	1	
BICA0203	No	01040	COPPER, DISSOLVED (UG/L AS CU)	11/05/78-11/05/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0204	No	01040	COPPER, DISSOLVED (UG/L AS CU)	11/07/78-11/07/78	0	1	
BICA0205	No	01040	COPPER, DISSOLVED (UG/L AS CU)	11/05/78-11/05/78	0	1	
BICA0206	No	01040	COPPER, DISSOLVED (UG/L AS CU)	11/05/78-11/05/78	0	1	
BICA0006	No	01042	COPPER, TOTAL (UG/L AS CU)	02/22/68-08/18/69	1	39	
BICA0029	Yes	01042	COPPER, TOTAL (UG/L AS CU)	02/22/68-08/18/69	1	44	
BICA0039	Yes	01042	COPPER, TOTAL (UG/L AS CU)	04/15/69-08/11/69	0	16	
BICA0061	No	01042	COPPER, TOTAL (UG/L AS CU)	05/27/57-05/27/57	0	1	
BICA0066	Yes	01042	COPPER, TOTAL (UG/L AS CU)	04/15/69-08/11/69	0	16	
BICA0067	Yes	01042	COPPER, TOTAL (UG/L AS CU)	05/05/74-05/05/74	0	1	
BICA0075	Yes	01042	COPPER, TOTAL (UG/L AS CU)	04/15/69-08/11/69	0	16	
BICA0099	Yes	01042	COPPER, TOTAL (UG/L AS CU)	04/15/69-08/11/69	0	16	
BICA0115	Yes	01042	COPPER, TOTAL (UG/L AS CU)	05/05/74-05/05/74	0	1	
BICA0120	Yes	01042	COPPER, TOTAL (UG/L AS CU)	05/04/74-05/04/74	0	1	
BICA0123	Yes	01042	COPPER, TOTAL (UG/L AS CU)	05/05/74-05/05/74	0	1	
BICA0127	Yes	01042	COPPER, TOTAL (UG/L AS CU)	05/04/74-05/04/74	0	1	
BICA0132	Yes	01042	COPPER, TOTAL (UG/L AS CU)	04/15/69-08/11/69	0	16	
BICA0134	Yes	01042	COPPER, TOTAL (UG/L AS CU)	05/04/74-05/04/74	0	1	
BICA0139	No	01042	COPPER, TOTAL (UG/L AS CU)	01/11/77-07/06/77	0	4	
BICA0174	Yes	01042	COPPER, TOTAL (UG/L AS CU)	04/15/69-08/11/69	0	16	
BICA0177	Yes	01042	COPPER, TOTAL (UG/L AS CU)	02/22/68-08/18/69	1	43	
BICA0186	No	01042	COPPER, TOTAL (UG/L AS CU)	01/11/77-07/06/77	0	4	
BICA0199	No	01042	COPPER, TOTAL (UG/L AS CU)	12/20/73-07/06/77	3	7	
BICA0207	No	01042	COPPER, TOTAL (UG/L AS CU)	11/19/73-11/19/73	0	1	
BICA0208	No	01042	COPPER, TOTAL (UG/L AS CU)	12/20/73-12/20/73	0	1	
BICA0209	No	01042	COPPER, TOTAL (UG/L AS CU)	01/12/77-07/14/77	0	4	
BICA0002	No	01045	IRON, TOTAL (UG/L AS FE)	03/26/47-09/15/71	24	95	
BICA0019	No	01045	IRON, TOTAL (UG/L AS FE)	10/09/67-03/03/71	3	9	
BICA0026	No	01045	IRON, TOTAL (UG/L AS FE)	08/20/58-04/05/68	9	49	
BICA0067	Yes	01045	IRON, TOTAL (UG/L AS FE)	05/05/74-05/05/74	0	1	
BICA0115	Yes	01045	IRON, TOTAL (UG/L AS FE)	05/05/74-05/05/74	0	1	
BICA0120	Yes	01045	IRON, TOTAL (UG/L AS FE)	05/04/74-05/04/74	0	1	
BICA0123	Yes	01045	IRON, TOTAL (UG/L AS FE)	05/05/74-05/05/74	0	1	
BICA0127	Yes	01045	IRON, TOTAL (UG/L AS FE)	05/04/74-05/04/74	0	1	
BICA0134	Yes	01045	IRON, TOTAL (UG/L AS FE)	05/04/74-05/04/74	0	1	
BICA0180	Yes	01045	IRON, TOTAL (UG/L AS FE)	01/03/68-01/03/68	0	1	
BICA0199	No	01045	IRON, TOTAL (UG/L AS FE)	12/20/73-04/20/83	9	4	
BICA0207	No	01045	IRON, TOTAL (UG/L AS FE)	11/19/73-11/19/73	0	1	
BICA0208	No	01045	IRON, TOTAL (UG/L AS FE)	12/20/73-12/20/73	0	1	
BICA0001	No	01046	IRON, DISSOLVED (UG/L AS FE)	02/26/73-12/05/73	0	5	
BICA0002	No	01046	IRON, DISSOLVED (UG/L AS FE)	01/26/71-03/14/91	20	44	
BICA0003	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/19/72-10/31/73	1	7	
BICA0019	No	01046	IRON, DISSOLVED (UG/L AS FE)	12/04/73-08/06/75	1	21	
BICA0036	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	12/16/68-10/26/70	1	8	
BICA0061	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/27/57-05/27/57	0	1	
BICA0071	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	07/06/78-07/06/78	0	1	
BICA0076	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	07/05/78-07/05/78	0	1	
BICA0078	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	07/05/78-07/05/78	0	1	
BICA0081	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	07/05/78-07/05/78	0	1	
BICA0082	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	07/05/78-07/05/78	0	1	
BICA0085	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	07/05/78-07/05/78	0	1	
BICA0086	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	07/05/78-07/05/78	0	1	
BICA0088	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	06/30/78-06/30/78	0	1	
BICA0089	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	06/30/78-06/30/78	0	1	
BICA0090	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/15/78-07/15/78	0	1	
BICA0091	No	01046	IRON, DISSOLVED (UG/L AS FE)	06/30/78-06/30/78	0	1	
BICA0092	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/15/78-07/15/78	0	1	
BICA0093	No	01046	IRON, DISSOLVED (UG/L AS FE)	06/30/78-06/30/78	0	1	
BICA0094	No	01046	IRON, DISSOLVED (UG/L AS FE)	06/30/78-06/30/78	0	1	
BICA0095	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/05/78-07/05/78	0	1	
BICA0096	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/15/78-07/15/78	0	1	
BICA0097	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/08/78-10/08/78	0	1	
BICA0098	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/05/78-07/05/78	0	1	
BICA0101	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/05/78-07/05/78	0	1	
BICA0102	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/05/78-07/05/78	0	1	
BICA0103	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/05/78-07/05/78	0	1	
BICA0104	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/08/78-10/08/78	0	1	
BICA0105	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/08/78-10/08/78	0	1	
BICA0106	No	01046	IRON, DISSOLVED (UG/L AS FE)	06/30/78-06/30/78	0	1	
BICA0107	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/07/78-10/07/78	0	1	
BICA0108	No	01046	IRON, DISSOLVED (UG/L AS FE)	06/30/78-06/30/78	0	1	
BICA0109	No	01046	IRON, DISSOLVED (UG/L AS FE)	06/30/78-06/30/78	0	1	
BICA0110	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/05/78-07/05/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0111	No	01046	IRON, DISSOLVED (UG/L AS FE)	04/14/78-04/14/78	0	1	
BICA0112	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/14/78-07/14/78	0	1	
BICA0114	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/14/78-07/14/78	0	1	
BICA0116	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/08/78-10/08/78	0	1	
BICA0117	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/08/78-10/08/78	0	1	
BICA0118	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/14/78-07/14/78	0	1	
BICA0119	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/14/78-07/14/78	0	1	
BICA0121	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/14/78-07/14/78	0	1	
BICA0122	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/14/78-07/14/78	0	1	
BICA0125	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/08/78-10/08/78	0	1	
BICA0126	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/14/78-10/14/78	0	1	
BICA0130	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/15/78-10/15/78	0	1	
BICA0131	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/15/78-10/15/78	0	1	
BICA0133	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/15/79-10/15/79	0	1	
BICA0135	No	01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	0	1	
BICA0137	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/15/78-10/15/78	0	1	
BICA0138	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/08/78-10/08/78	0	1	
BICA0139	No	01046	IRON, DISSOLVED (UG/L AS FE)	01/11/77-07/06/77	0	4	
BICA0141	No	01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	0	1	
BICA0144	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/29/78-10/29/78	0	1	
BICA0145	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	0	1	
BICA0146	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/15/78-10/15/78	0	1	
BICA0147	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/15/78-10/29/78	0	2	
BICA0150	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/15/78-10/15/78	0	1	
BICA0151	No	01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	0	1	
BICA0154	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	0	1	
BICA0155	No	01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	0	1	
BICA0156	No	01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	0	1	
BICA0157	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/15/78-10/15/78	0	1	
BICA0160	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/15/78-10/15/78	0	1	
BICA0161	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/29/78-10/29/78	0	1	
BICA0163	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	0	1	
BICA0166	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/15/78-10/15/78	0	1	
BICA0167	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/29/78-10/29/78	0	1	
BICA0168	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/14/78-10/14/78	0	1	
BICA0171	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/17/78-10/17/78	0	1	
BICA0179	No	01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	0	1	
BICA0180	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	12/12/68-09/20/78	9	126	
BICA0183	No	01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	0	1	
BICA0185	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/15/78-10/15/78	0	1	
BICA0186	No	01046	IRON, DISSOLVED (UG/L AS FE)	01/11/77-07/06/77	0	4	
BICA0187	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/29/78-10/29/78	0	1	
BICA0188	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/29/78-10/29/78	0	1	
BICA0189	No	01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	0	1	
BICA0191	No	01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	0	1	
BICA0192	No	01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	0	1	
BICA0193	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/15/78-10/15/78	0	1	
BICA0194	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/15/78-10/15/78	0	1	
BICA0196	No	01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	0	1	
BICA0197	No	01046	IRON, DISSOLVED (UG/L AS FE)	11/05/78-11/05/78	0	1	
BICA0198	No	01046	IRON, DISSOLVED (UG/L AS FE)	11/05/78-11/05/78	0	1	
BICA0199	No	01046	IRON, DISSOLVED (UG/L AS FE)	01/12/77-07/06/77	0	4	
BICA0200	No	01046	IRON, DISSOLVED (UG/L AS FE)	01/19/79-01/19/79	0	1	
BICA0201	No	01046	IRON, DISSOLVED (UG/L AS FE)	11/05/78-11/05/78	0	1	
BICA0202	No	01046	IRON, DISSOLVED (UG/L AS FE)	11/05/78-11/05/78	0	1	
BICA0203	No	01046	IRON, DISSOLVED (UG/L AS FE)	11/05/78-11/05/78	0	1	
BICA0204	No	01046	IRON, DISSOLVED (UG/L AS FE)	11/07/78-11/07/78	0	1	
BICA0205	No	01046	IRON, DISSOLVED (UG/L AS FE)	11/05/78-11/05/78	0	1	
BICA0206	No	01046	IRON, DISSOLVED (UG/L AS FE)	11/05/78-11/05/78	0	1	
BICA0209	No	01046	IRON, DISSOLVED (UG/L AS FE)	01/12/77-07/14/77	0	4	
BICA0001	No	01049	LEAD, DISSOLVED (UG/L AS PB)	02/26/73-12/05/73	0	5	
BICA0002	No	01049	LEAD, DISSOLVED (UG/L AS PB)	10/01/70-03/14/91	20	25	
BICA0003	No	01049	LEAD, DISSOLVED (UG/L AS PB)	07/19/72-10/31/73	1	7	
BICA0014	No	01049	LEAD, DISSOLVED (UG/L AS PB)	02/08/73-02/08/73	0	1	
BICA0019	No	01049	LEAD, DISSOLVED (UG/L AS PB)	11/03/70-11/03/70	0	1	
BICA0071	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	07/06/78-07/06/78	0	1	
BICA0076	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	07/05/78-07/05/78	0	1	
BICA0078	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	07/05/78-07/05/78	0	1	
BICA0081	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	07/05/78-07/05/78	0	1	
BICA0082	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	07/05/78-07/05/78	0	1	
BICA0085	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	07/05/78-07/05/78	0	1	
BICA0086	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	07/05/78-07/05/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0088	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	06/30/78-06/30/78	0	1	
BICA0089	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	06/30/78-06/30/78	0	1	
BICA0090	No	01049	LEAD, DISSOLVED (UG/L AS PB)	07/15/78-07/15/78	0	1	
BICA0091	No	01049	LEAD, DISSOLVED (UG/L AS PB)	06/30/78-06/30/78	0	1	
BICA0092	No	01049	LEAD, DISSOLVED (UG/L AS PB)	07/15/78-07/15/78	0	1	
BICA0093	No	01049	LEAD, DISSOLVED (UG/L AS PB)	06/30/78-06/30/78	0	1	
BICA0094	No	01049	LEAD, DISSOLVED (UG/L AS PB)	06/30/78-06/30/78	0	1	
BICA0095	No	01049	LEAD, DISSOLVED (UG/L AS PB)	07/05/78-07/05/78	0	1	
BICA0096	No	01049	LEAD, DISSOLVED (UG/L AS PB)	07/15/78-07/15/78	0	1	
BICA0098	No	01049	LEAD, DISSOLVED (UG/L AS PB)	07/05/78-07/05/78	0	1	
BICA0101	No	01049	LEAD, DISSOLVED (UG/L AS PB)	07/05/78-07/05/78	0	1	
BICA0102	No	01049	LEAD, DISSOLVED (UG/L AS PB)	07/05/78-07/05/78	0	1	
BICA0103	No	01049	LEAD, DISSOLVED (UG/L AS PB)	07/05/78-07/05/78	0	1	
BICA0106	No	01049	LEAD, DISSOLVED (UG/L AS PB)	06/30/78-06/30/78	0	1	
BICA0108	No	01049	LEAD, DISSOLVED (UG/L AS PB)	06/30/78-06/30/78	0	1	
BICA0109	No	01049	LEAD, DISSOLVED (UG/L AS PB)	06/30/78-06/30/78	0	1	
BICA0110	No	01049	LEAD, DISSOLVED (UG/L AS PB)	07/05/78-07/05/78	0	1	
BICA0111	No	01049	LEAD, DISSOLVED (UG/L AS PB)	04/14/78-04/14/78	0	1	
BICA0112	No	01049	LEAD, DISSOLVED (UG/L AS PB)	07/14/78-07/14/78	0	1	
BICA0114	No	01049	LEAD, DISSOLVED (UG/L AS PB)	07/14/78-07/14/78	0	1	
BICA0118	No	01049	LEAD, DISSOLVED (UG/L AS PB)	07/14/78-07/14/78	0	1	
BICA0119	No	01049	LEAD, DISSOLVED (UG/L AS PB)	07/14/78-07/14/78	0	1	
BICA0121	No	01049	LEAD, DISSOLVED (UG/L AS PB)	07/14/78-07/14/78	0	1	
BICA0122	No	01049	LEAD, DISSOLVED (UG/L AS PB)	07/14/78-07/14/78	0	1	
BICA0135	No	01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	0	1	
BICA0141	No	01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	0	1	
BICA0145	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	0	1	
BICA0151	No	01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	0	1	
BICA0154	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	0	1	
BICA0155	No	01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	0	1	
BICA0156	No	01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	0	1	
BICA0163	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	0	1	
BICA0179	No	01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	0	1	
BICA0183	No	01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	0	1	
BICA0189	No	01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	0	1	
BICA0191	No	01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	0	1	
BICA0192	No	01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	0	1	
BICA0196	No	01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	0	1	
BICA0200	No	01049	LEAD, DISSOLVED (UG/L AS PB)	01/19/79-01/19/79	0	1	
BICA0139	No	01051	LEAD, TOTAL (UG/L AS PB)	01/11/77-07/06/77	0	4	
BICA0186	No	01051	LEAD, TOTAL (UG/L AS PB)	01/11/77-07/06/77	0	4	
BICA0199	No	01051	LEAD, TOTAL (UG/L AS PB)	12/20/73-07/06/77	3	5	
BICA0207	No	01051	LEAD, TOTAL (UG/L AS PB)	11/19/73-11/19/73	0	1	
BICA0208	No	01051	LEAD, TOTAL (UG/L AS PB)	12/20/73-12/20/73	0	1	
BICA0209	No	01051	LEAD, TOTAL (UG/L AS PB)	01/12/77-07/14/77	0	4	
BICA0006	No	01055	MANGANESE, TOTAL (UG/L AS MN)	02/22/68-08/18/69	1	39	
BICA0029	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	02/22/68-08/18/69	1	44	
BICA0039	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	04/15/69-08/11/69	0	15	
BICA0066	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	04/15/69-08/11/69	0	16	
BICA0067	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	05/05/74-05/05/74	0	1	
BICA0075	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	04/15/69-08/11/69	0	16	
BICA0099	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	04/15/69-08/11/69	0	16	
BICA0115	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	05/05/74-05/05/74	0	1	
BICA0120	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	05/04/74-05/04/74	0	1	
BICA0123	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	05/05/74-05/05/74	0	1	
BICA0127	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	05/04/74-05/04/74	0	1	
BICA0132	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	04/15/69-08/11/69	0	16	
BICA0134	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	05/04/74-05/04/74	0	1	
BICA0174	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	04/15/69-08/11/69	0	16	
BICA0177	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	02/22/68-08/18/69	1	45	
BICA0199	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/31/74-04/20/83	9	3	
BICA0001	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	02/26/73-12/05/73	0	5	
BICA0002	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/01/70-03/14/91	20	24	
BICA0003	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/19/72-10/31/73	1	7	
BICA0036	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/16/68-10/26/70	1	8	
BICA0071	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/06/78-07/06/78	0	1	
BICA0076	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	0	1	
BICA0078	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	0	1	
BICA0081	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	0	1	
BICA0082	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	0	1	
BICA0085	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	0	1	
BICA0086	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0088	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/30/78-06/30/78	0	1	
BICA0089	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/30/78-06/30/78	0	1	
BICA0090	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/15/78-07/15/78	0	1	
BICA0091	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/30/78-06/30/78	0	1	
BICA0092	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/15/78-07/15/78	0	1	
BICA0093	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/30/78-06/30/78	0	1	
BICA0094	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/30/78-06/30/78	0	1	
BICA0095	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	0	1	
BICA0096	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/15/78-07/15/78	0	1	
BICA0097	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/08/78-10/08/78	0	1	
BICA0098	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	0	1	
BICA0101	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	0	1	
BICA0102	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	0	1	
BICA0103	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	0	1	
BICA0104	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/08/78-10/08/78	0	1	
BICA0105	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/08/78-10/08/78	0	1	
BICA0106	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/30/78-06/30/78	0	1	
BICA0107	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/07/78-10/07/78	0	1	
BICA0108	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/30/78-06/30/78	0	1	
BICA0109	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/30/78-06/30/78	0	1	
BICA0110	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	0	1	
BICA0111	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/14/78-04/14/78	0	1	
BICA0112	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/14/78-07/14/78	0	1	
BICA0114	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/14/78-07/14/78	0	1	
BICA0116	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/08/78-10/08/78	0	1	
BICA0117	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/08/78-10/08/78	0	1	
BICA0118	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/14/78-07/14/78	0	1	
BICA0119	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/14/78-07/14/78	0	1	
BICA0121	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/14/78-07/14/78	0	1	
BICA0122	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/14/78-07/14/78	0	1	
BICA0125	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/08/78-10/08/78	0	1	
BICA0126	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/14/78-10/14/78	0	1	
BICA0130	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/15/78-10/15/78	0	1	
BICA0131	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/15/78-10/15/78	0	1	
BICA0133	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/15/79-10/15/79	0	1	
BICA0135	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	0	1	
BICA0137	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/15/78-10/15/78	0	1	
BICA0138	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/08/78-10/08/78	0	1	
BICA0139	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/11/77-07/06/77	0	4	
BICA0141	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	0	1	
BICA0144	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/78-10/29/78	0	1	
BICA0145	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	0	1	
BICA0146	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/15/78-10/15/78	0	1	
BICA0147	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/15/78-10/29/78	0	2	
BICA0150	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/15/78-10/15/78	0	1	
BICA0151	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	0	1	
BICA0154	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	0	1	
BICA0155	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	0	1	
BICA0156	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	0	1	
BICA0157	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/15/78-10/15/78	0	1	
BICA0160	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/15/78-10/15/78	0	1	
BICA0161	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/78-10/29/78	0	1	
BICA0163	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	0	1	
BICA0166	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/15/78-10/15/78	0	1	
BICA0167	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/78-10/29/78	0	1	
BICA0168	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/14/78-10/14/78	0	1	
BICA0171	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/17/78-10/17/78	0	1	
BICA0179	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	0	1	
BICA0180	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/01/71-09/20/78	7	117	
BICA0183	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	0	1	
BICA0185	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/15/78-10/15/78	0	1	
BICA0186	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/11/77-07/06/77	0	4	
BICA0187	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/78-10/29/78	0	1	
BICA0188	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/78-10/29/78	0	1	
BICA0189	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	0	1	
BICA0191	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	0	1	
BICA0192	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	0	1	
BICA0193	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/15/78-10/15/78	0	1	
BICA0194	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/15/78-10/15/78	0	1	
BICA0196	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	0	1	
BICA0197	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/05/78-11/05/78	0	1	
BICA0198	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/05/78-11/05/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0199	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/12/77-07/06/77	0	4	
BICA0200	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/19/79-01/19/79	0	1	
BICA0201	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/05/78-11/05/78	0	1	
BICA0202	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/05/78-11/05/78	0	1	
BICA0203	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/05/78-11/05/78	0	1	
BICA0204	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/07/78-11/07/78	0	1	
BICA0205	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/05/78-11/05/78	0	1	
BICA0206	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/05/78-11/05/78	0	1	
BICA0209	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/12/77-07/14/77	0	4	
BICA0001	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	02/26/73-12/05/73	0	5	
BICA0002	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/01/70-08/30/89	18	17	
BICA0036	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	12/16/68-10/26/70	1	8	
BICA0071	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/06/78-07/06/78	0	1	
BICA0076	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/05/78-07/05/78	0	1	
BICA0078	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/05/78-07/05/78	0	1	
BICA0081	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/05/78-07/05/78	0	1	
BICA0082	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/05/78-07/05/78	0	1	
BICA0085	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/05/78-07/05/78	0	1	
BICA0086	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/05/78-07/05/78	0	1	
BICA0088	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	06/30/78-06/30/78	0	1	
BICA0089	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	06/30/78-06/30/78	0	1	
BICA0090	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/15/78-07/15/78	0	1	
BICA0091	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	06/30/78-06/30/78	0	1	
BICA0092	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/15/78-07/15/78	0	1	
BICA0093	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	06/30/78-06/30/78	0	1	
BICA0094	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	06/30/78-06/30/78	0	1	
BICA0095	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/05/78-07/05/78	0	1	
BICA0096	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/15/78-07/15/78	0	1	
BICA0097	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/08/78-10/08/78	0	1	
BICA0098	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/05/78-07/05/78	0	1	
BICA0101	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/05/78-07/05/78	0	1	
BICA0102	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/05/78-07/05/78	0	1	
BICA0103	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/05/78-07/05/78	0	1	
BICA0104	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/08/78-10/08/78	0	1	
BICA0105	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/08/78-10/08/78	0	1	
BICA0106	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	06/30/78-06/30/78	0	1	
BICA0107	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/07/78-10/07/78	0	1	
BICA0108	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	06/30/78-06/30/78	0	1	
BICA0109	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	06/30/78-06/30/78	0	1	
BICA0110	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/05/78-07/05/78	0	1	
BICA0111	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	04/14/78-04/14/78	0	1	
BICA0112	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/14/78-07/14/78	0	1	
BICA0114	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/14/78-07/14/78	0	1	
BICA0116	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/08/78-10/08/78	0	1	
BICA0117	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/08/78-10/08/78	0	1	
BICA0118	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/14/78-07/14/78	0	1	
BICA0119	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/14/78-07/14/78	0	1	
BICA0121	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/14/78-07/14/78	0	1	
BICA0122	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/14/78-07/14/78	0	1	
BICA0125	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/08/78-10/08/78	0	1	
BICA0126	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/14/78-10/14/78	0	1	
BICA0130	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/15/78-10/15/78	0	1	
BICA0131	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/15/78-10/15/78	0	1	
BICA0133	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/15/79-10/15/79	0	1	
BICA0135	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	0	1	
BICA0137	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/15/78-10/15/78	0	1	
BICA0138	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/08/78-10/08/78	0	1	
BICA0141	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	0	1	
BICA0144	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/29/78-10/29/78	0	1	
BICA0145	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	0	1	
BICA0146	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/15/78-10/15/78	0	1	
BICA0147	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/15/78-10/29/78	0	2	
BICA0150	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/15/78-10/15/78	0	1	
BICA0151	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	0	1	
BICA0154	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	0	1	
BICA0155	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	0	1	
BICA0156	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	0	1	
BICA0157	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/15/78-10/15/78	0	1	
BICA0160	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/15/78-10/15/78	0	1	
BICA0161	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/29/78-10/29/78	0	1	
BICA0163	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	0	1	
BICA0166	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/15/78-10/15/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0167	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/29/78-10/29/78	0	1	
BICA0168	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/14/78-10/14/78	0	1	
BICA0171	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/17/78-10/17/78	0	1	
BICA0179	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	0	1	
BICA0183	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	0	1	
BICA0185	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/15/78-10/15/78	0	1	
BICA0187	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/29/78-10/29/78	0	1	
BICA0188	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/29/78-10/29/78	0	1	
BICA0189	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	0	1	
BICA0191	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	0	1	
BICA0192	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	0	1	
BICA0193	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/15/78-10/15/78	0	1	
BICA0194	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/15/78-10/15/78	0	1	
BICA0196	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	0	1	
BICA0197	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/05/78-11/05/78	0	1	
BICA0198	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/05/78-11/05/78	0	1	
BICA0200	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/19/79-01/19/79	0	1	
BICA0201	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/05/78-11/05/78	0	1	
BICA0202	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/05/78-11/05/78	0	1	
BICA0203	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/05/78-11/05/78	0	1	
BICA0204	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/07/78-11/07/78	0	1	
BICA0205	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/05/78-11/05/78	0	1	
BICA0206	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/05/78-11/05/78	0	1	
BICA0061	No	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	05/27/57-05/27/57	0	1	
BICA0139	No	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	01/11/77-07/06/77	0	4	
BICA0186	No	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	01/11/77-07/06/77	0	4	
BICA0199	No	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	01/12/77-07/06/77	0	4	
BICA0209	No	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	01/12/77-07/14/77	0	4	
BICA0002	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/01/70-08/30/89	18	16	
BICA0071	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	07/06/78-07/06/78	0	1	
BICA0076	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	07/05/78-07/05/78	0	1	
BICA0078	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	07/05/78-07/05/78	0	1	
BICA0081	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	07/05/78-07/05/78	0	1	
BICA0082	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	07/05/78-07/05/78	0	1	
BICA0085	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	07/05/78-07/05/78	0	1	
BICA0086	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	07/05/78-07/05/78	0	1	
BICA0088	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	06/30/78-06/30/78	0	1	
BICA0089	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	06/30/78-06/30/78	0	1	
BICA0090	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	07/15/78-07/15/78	0	1	
BICA0091	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	06/30/78-06/30/78	0	1	
BICA0092	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	07/15/78-07/15/78	0	1	
BICA0093	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	06/30/78-06/30/78	0	1	
BICA0094	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	06/30/78-06/30/78	0	1	
BICA0095	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	07/05/78-07/05/78	0	1	
BICA0096	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	07/15/78-07/15/78	0	1	
BICA0097	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/08/78-10/08/78	0	1	
BICA0098	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	07/05/78-07/05/78	0	1	
BICA0101	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	07/05/78-07/05/78	0	1	
BICA0102	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	07/05/78-07/05/78	0	1	
BICA0103	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	07/05/78-07/05/78	0	1	
BICA0104	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/08/78-10/08/78	0	1	
BICA0105	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/08/78-10/08/78	0	1	
BICA0106	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	06/30/78-06/30/78	0	1	
BICA0107	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/07/78-10/07/78	0	1	
BICA0108	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	06/30/78-06/30/78	0	1	
BICA0109	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	06/30/78-06/30/78	0	1	
BICA0110	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	07/05/78-07/05/78	0	1	
BICA0111	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	04/14/78-04/14/78	0	1	
BICA0112	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	07/14/78-07/14/78	0	1	
BICA0114	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	07/14/78-07/14/78	0	1	
BICA0116	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/08/78-10/08/78	0	1	
BICA0117	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/08/78-10/08/78	0	1	
BICA0118	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	07/14/78-07/14/78	0	1	
BICA0119	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	07/14/78-07/14/78	0	1	
BICA0121	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	07/14/78-07/14/78	0	1	
BICA0122	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	07/14/78-07/14/78	0	1	
BICA0125	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/08/78-10/08/78	0	1	
BICA0126	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/14/78-10/14/78	0	1	
BICA0130	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/15/78-10/15/78	0	1	
BICA0131	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/15/78-10/15/78	0	1	
BICA0133	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/15/79-10/15/79	0	1	
BICA0135	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0137	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/15/78-10/15/78	0	1	
BICA0138	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/08/78-10/08/78	0	1	
BICA0141	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	0	1	
BICA0144	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/29/78-10/29/78	0	1	
BICA0145	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	0	1	
BICA0146	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/15/78-10/15/78	0	1	
BICA0147	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/15/78-10/29/78	0	2	
BICA0150	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/15/78-10/15/78	0	1	
BICA0151	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	0	1	
BICA0154	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	0	1	
BICA0155	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	0	1	
BICA0156	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	0	1	
BICA0157	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/15/78-10/15/78	0	1	
BICA0160	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/15/78-10/15/78	0	1	
BICA0161	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/29/78-10/29/78	0	1	
BICA0163	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	0	1	
BICA0166	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/15/78-10/15/78	0	1	
BICA0167	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/29/78-10/29/78	0	1	
BICA0168	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/14/78-10/14/78	0	1	
BICA0171	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/17/78-10/17/78	0	1	
BICA0179	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	0	1	
BICA0183	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	0	1	
BICA0185	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/15/78-10/15/78	0	1	
BICA0187	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/29/78-10/29/78	0	1	
BICA0188	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/29/78-10/29/78	0	1	
BICA0189	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	0	1	
BICA0191	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	0	1	
BICA0192	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	0	1	
BICA0193	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/15/78-10/15/78	0	1	
BICA0194	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/15/78-10/15/78	0	1	
BICA0196	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	0	1	
BICA0197	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	11/05/78-11/05/78	0	1	
BICA0198	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	11/05/78-11/05/78	0	1	
BICA0200	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	01/19/79-01/19/79	0	1	
BICA0201	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	11/05/78-11/05/78	0	1	
BICA0202	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	11/05/78-11/05/78	0	1	
BICA0203	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	11/05/78-11/05/78	0	1	
BICA0204	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	11/07/78-11/07/78	0	1	
BICA0205	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	11/05/78-11/05/78	0	1	
BICA0206	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	11/05/78-11/05/78	0	1	
BICA0139	No	01067	NICKEL, TOTAL (UG/L AS NI)	01/11/77-07/06/77	0	4	
BICA0186	No	01067	NICKEL, TOTAL (UG/L AS NI)	01/11/77-07/06/77	0	4	
BICA0199	No	01067	NICKEL, TOTAL (UG/L AS NI)	01/12/77-04/20/83	6	5	
BICA0209	No	01067	NICKEL, TOTAL (UG/L AS NI)	01/12/77-07/14/77	0	4	
BICA0002	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/01/70-03/14/91	20	23	
BICA0014	No	01075	SILVER, DISSOLVED (UG/L AS AG)	02/08/73-02/08/73	0	1	
BICA0097	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/08/78-10/08/78	0	1	
BICA0104	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/08/78-10/08/78	0	1	
BICA0105	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/08/78-10/08/78	0	1	
BICA0107	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/07/78-10/07/78	0	1	
BICA0116	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/08/78-10/08/78	0	1	
BICA0117	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/08/78-10/08/78	0	1	
BICA0125	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/08/78-10/08/78	0	1	
BICA0126	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/14/78-10/14/78	0	1	
BICA0130	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/78-10/15/78	0	1	
BICA0131	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/78-10/15/78	0	1	
BICA0133	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/79-10/15/79	0	1	
BICA0137	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/78-10/15/78	0	1	
BICA0138	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/08/78-10/08/78	0	1	
BICA0144	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/29/78-10/29/78	0	1	
BICA0146	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/78-10/15/78	0	1	
BICA0147	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/78-10/29/78	0	2	
BICA0150	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/78-10/15/78	0	1	
BICA0157	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/78-10/15/78	0	1	
BICA0160	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/78-10/15/78	0	1	
BICA0161	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	10/29/78-10/29/78	0	1	
BICA0166	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/78-10/15/78	0	1	
BICA0167	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/29/78-10/29/78	0	1	
BICA0168	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/14/78-10/14/78	0	1	
BICA0171	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/17/78-10/17/78	0	1	
BICA0185	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/78-10/15/78	0	1	
BICA0187	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/29/78-10/29/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0188	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/29/78-10/29/78	0	1	
BICA0193	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/78-10/15/78	0	1	
BICA0194	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/78-10/15/78	0	1	
BICA0197	No	01075	SILVER, DISSOLVED (UG/L AS AG)	11/05/78-11/05/78	0	1	
BICA0198	No	01075	SILVER, DISSOLVED (UG/L AS AG)	11/05/78-11/05/78	0	1	
BICA0201	No	01075	SILVER, DISSOLVED (UG/L AS AG)	11/05/78-11/05/78	0	1	
BICA0202	No	01075	SILVER, DISSOLVED (UG/L AS AG)	11/05/78-11/05/78	0	1	
BICA0203	No	01075	SILVER, DISSOLVED (UG/L AS AG)	11/05/78-11/05/78	0	1	
BICA0204	No	01075	SILVER, DISSOLVED (UG/L AS AG)	11/07/78-11/07/78	0	1	
BICA0205	No	01075	SILVER, DISSOLVED (UG/L AS AG)	11/05/78-11/05/78	0	1	
BICA0206	No	01075	SILVER, DISSOLVED (UG/L AS AG)	11/05/78-11/05/78	0	1	
BICA0002	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/01/70-03/14/91	20	14	
BICA0097	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/08/78-10/08/78	0	1	
BICA0104	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/08/78-10/08/78	0	1	
BICA0105	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/08/78-10/08/78	0	1	
BICA0107	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/07/78-10/07/78	0	1	
BICA0116	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/08/78-10/08/78	0	1	
BICA0117	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/08/78-10/08/78	0	1	
BICA0125	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/08/78-10/08/78	0	1	
BICA0126	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/14/78-10/14/78	0	1	
BICA0130	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/15/78-10/15/78	0	1	
BICA0131	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/15/78-10/15/78	0	1	
BICA0133	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/15/79-10/15/79	0	1	
BICA0137	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/15/78-10/15/78	0	1	
BICA0138	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/08/78-10/08/78	0	1	
BICA0144	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/29/78-10/29/78	0	1	
BICA0146	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/15/78-10/15/78	0	1	
BICA0147	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/15/78-10/29/78	0	2	
BICA0150	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/15/78-10/15/78	0	1	
BICA0157	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/15/78-10/15/78	0	1	
BICA0160	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/15/78-10/15/78	0	1	
BICA0161	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/29/78-10/29/78	0	1	
BICA0166	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/15/78-10/15/78	0	1	
BICA0167	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/29/78-10/29/78	0	1	
BICA0168	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/14/78-10/14/78	0	1	
BICA0171	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/17/78-10/17/78	0	1	
BICA0185	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/15/78-10/15/78	0	1	
BICA0187	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/29/78-10/29/78	0	1	
BICA0188	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/29/78-10/29/78	0	1	
BICA0193	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/15/78-10/15/78	0	1	
BICA0194	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/15/78-10/15/78	0	1	
BICA0197	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/05/78-11/05/78	0	1	
BICA0198	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/05/78-11/05/78	0	1	
BICA0201	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/05/78-11/05/78	0	1	
BICA0202	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/05/78-11/05/78	0	1	
BICA0203	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/05/78-11/05/78	0	1	
BICA0204	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/07/78-11/07/78	0	1	
BICA0205	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/05/78-11/05/78	0	1	
BICA0206	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/05/78-11/05/78	0	1	
BICA0139	No	01082	STRONTIUM, TOTAL (UG/L AS SR)	01/11/77-07/06/77	0	4	
BICA0186	No	01082	STRONTIUM, TOTAL (UG/L AS SR)	01/11/77-07/06/77	0	4	
BICA0199	No	01082	STRONTIUM, TOTAL (UG/L AS SR)	01/12/77-07/06/77	0	4	
BICA0209	No	01082	STRONTIUM, TOTAL (UG/L AS SR)	01/12/77-07/14/77	0	4	
BICA0002	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/01/70-08/30/89	18	13	
BICA0097	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/08/78-10/08/78	0	1	
BICA0104	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/08/78-10/08/78	0	1	
BICA0105	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/08/78-10/08/78	0	1	
BICA0107	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/07/78-10/07/78	0	1	
BICA0116	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/08/78-10/08/78	0	1	
BICA0117	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/08/78-10/08/78	0	1	
BICA0125	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/08/78-10/08/78	0	1	
BICA0126	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/14/78-10/14/78	0	1	
BICA0130	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/15/78-10/15/78	0	1	
BICA0131	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/15/78-10/15/78	0	1	
BICA0133	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/15/79-10/15/79	0	1	
BICA0137	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/15/78-10/15/78	0	1	
BICA0138	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/08/78-10/08/78	0	1	
BICA0144	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/29/78-10/29/78	0	1	
BICA0146	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/15/78-10/15/78	0	1	
BICA0147	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/15/78-10/29/78	0	2	
BICA0150	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/15/78-10/15/78	0	1	
BICA0157	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/15/78-10/15/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0160	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/15/78-10/15/78	0	1	
BICA0161	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/29/78-10/29/78	0	1	
BICA0166	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/15/78-10/15/78	0	1	
BICA0167	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/29/78-10/29/78	0	1	
BICA0168	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/14/78-10/14/78	0	1	
BICA0171	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/17/78-10/17/78	0	1	
BICA0185	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/15/78-10/15/78	0	1	
BICA0187	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/29/78-10/29/78	0	1	
BICA0188	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/29/78-10/29/78	0	1	
BICA0193	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/15/78-10/15/78	0	1	
BICA0194	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/15/78-10/15/78	0	1	
BICA0197	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	11/05/78-11/05/78	0	1	
BICA0198	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	11/05/78-11/05/78	0	1	
BICA0201	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	11/05/78-11/05/78	0	1	
BICA0202	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	11/05/78-11/05/78	0	1	
BICA0203	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	11/05/78-11/05/78	0	1	
BICA0204	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	11/07/78-11/07/78	0	1	
BICA0205	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	11/05/78-11/05/78	0	1	
BICA0206	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	11/05/78-11/05/78	0	1	
BICA0139	No	01087	VANADIUM, TOTAL (UG/L AS V)	01/11/77-07/06/77	0	4	
BICA0186	No	01087	VANADIUM, TOTAL (UG/L AS V)	01/11/77-07/06/77	0	4	
BICA0199	No	01087	VANADIUM, TOTAL (UG/L AS V)	01/12/77-07/06/77	0	4	
BICA0209	No	01087	VANADIUM, TOTAL (UG/L AS V)	01/12/77-07/14/77	0	4	
BICA0001	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	02/26/73-12/05/73	0	5	
BICA0002	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/01/70-03/14/91	20	22	
BICA0003	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/19/72-10/31/73	1	7	
BICA0019	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	11/03/70-11/03/70	0	1	
BICA0036	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	12/16/68-10/26/70	1	8	
BICA0071	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/06/78-07/06/78	0	1	
BICA0076	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/05/78-07/05/78	0	1	
BICA0078	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/05/78-07/05/78	0	1	
BICA0081	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/05/78-07/05/78	0	1	
BICA0082	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/05/78-07/05/78	0	1	
BICA0085	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/05/78-07/05/78	0	1	
BICA0086	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/05/78-07/05/78	0	1	
BICA0088	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	06/30/78-06/30/78	0	1	
BICA0089	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	06/30/78-06/30/78	0	1	
BICA0090	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/15/78-07/15/78	0	1	
BICA0091	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	06/30/78-06/30/78	0	1	
BICA0092	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/15/78-07/15/78	0	1	
BICA0093	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	06/30/78-06/30/78	0	1	
BICA0094	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	06/30/78-06/30/78	0	1	
BICA0095	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/05/78-07/05/78	0	1	
BICA0096	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/15/78-07/15/78	0	1	
BICA0097	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/08/78-10/08/78	0	1	
BICA0098	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/05/78-07/05/78	0	1	
BICA0101	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/05/78-07/05/78	0	1	
BICA0102	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/05/78-07/05/78	0	1	
BICA0103	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/05/78-07/05/78	0	1	
BICA0104	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/08/78-10/08/78	0	1	
BICA0105	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/08/78-10/08/78	0	1	
BICA0106	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	06/30/78-06/30/78	0	1	
BICA0107	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/07/78-10/07/78	0	1	
BICA0108	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	06/30/78-06/30/78	0	1	
BICA0109	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	06/30/78-06/30/78	0	1	
BICA0110	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/05/78-07/05/78	0	1	
BICA0111	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/14/78-04/14/78	0	1	
BICA0112	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/14/78-07/14/78	0	1	
BICA0114	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/14/78-07/14/78	0	1	
BICA0116	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/08/78-10/08/78	0	1	
BICA0117	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/08/78-10/08/78	0	1	
BICA0118	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/14/78-07/14/78	0	1	
BICA0119	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/14/78-07/14/78	0	1	
BICA0121	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/14/78-07/14/78	0	1	
BICA0122	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/14/78-07/14/78	0	1	
BICA0125	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/08/78-10/08/78	0	1	
BICA0126	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/14/78-10/14/78	0	1	
BICA0130	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/78-10/15/78	0	1	
BICA0131	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/78-10/15/78	0	1	
BICA0133	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/79-10/15/79	0	1	
BICA0135	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	0	1	
BICA0137	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/78-10/15/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0138	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/08/78-10/08/78	0	1	
BICA0141	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	0	1	
BICA0144	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/29/78-10/29/78	0	1	
BICA0145	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	0	1	
BICA0146	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/78-10/15/78	0	1	
BICA0147	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/78-10/29/78	0	2	
BICA0150	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/78-10/15/78	0	1	
BICA0151	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	0	1	
BICA0154	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	0	1	
BICA0155	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	0	1	
BICA0156	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	0	1	
BICA0157	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/78-10/15/78	0	1	
BICA0160	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/78-10/15/78	0	1	
BICA0161	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/29/78-10/29/78	0	1	
BICA0163	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	0	1	
BICA0166	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/78-10/15/78	0	1	
BICA0167	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/29/78-10/29/78	0	1	
BICA0168	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/14/78-10/14/78	0	1	
BICA0171	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/17/78-10/17/78	0	1	
BICA0179	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	0	1	
BICA0183	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	0	1	
BICA0185	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/78-10/15/78	0	1	
BICA0187	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/29/78-10/29/78	0	1	
BICA0188	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/29/78-10/29/78	0	1	
BICA0189	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	0	1	
BICA0191	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	0	1	
BICA0192	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	0	1	
BICA0193	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/78-10/15/78	0	1	
BICA0194	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/78-10/15/78	0	1	
BICA0196	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	0	1	
BICA0197	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	11/05/78-11/05/78	0	1	
BICA0198	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	11/05/78-11/05/78	0	1	
BICA0200	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	01/19/79-01/19/79	0	1	
BICA0201	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	11/05/78-11/05/78	0	1	
BICA0202	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	11/05/78-11/05/78	0	1	
BICA0203	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	11/05/78-11/05/78	0	1	
BICA0204	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	11/07/78-11/07/78	0	1	
BICA0205	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	11/05/78-11/05/78	0	1	
BICA0206	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	11/05/78-11/05/78	0	1	
BICA0006	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/28/68-08/18/69	1	36	
BICA0029	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	03/28/68-08/18/69	1	40	
BICA0039	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	04/15/69-08/11/69	0	16	
BICA0061	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/27/57-05/27/57	0	1	
BICA0066	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	04/15/69-08/11/69	0	16	
BICA0067	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	05/05/74-05/05/74	0	1	
BICA0075	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	04/15/69-08/11/69	0	16	
BICA0099	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	04/15/69-08/11/69	0	16	
BICA0115	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	05/05/74-05/05/74	0	1	
BICA0120	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	05/04/74-05/04/74	0	1	
BICA0123	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	05/05/74-05/05/74	0	1	
BICA0127	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	05/04/74-05/04/74	0	1	
BICA0132	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	04/15/69-08/11/69	0	16	
BICA0134	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	05/04/74-05/04/74	0	1	
BICA0139	No	01092	ZINC, TOTAL (UG/L AS ZN)	01/11/77-07/06/77	0	4	
BICA0174	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	04/15/69-08/11/69	0	16	
BICA0177	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	04/11/68-08/18/69	1	41	
BICA0186	No	01092	ZINC, TOTAL (UG/L AS ZN)	01/11/77-07/06/77	0	4	
BICA0199	No	01092	ZINC, TOTAL (UG/L AS ZN)	12/20/73-07/06/77	3	7	
BICA0207	No	01092	ZINC, TOTAL (UG/L AS ZN)	11/19/73-11/19/73	0	1	
BICA0208	No	01092	ZINC, TOTAL (UG/L AS ZN)	12/20/73-12/20/73	0	1	
BICA0209	No	01092	ZINC, TOTAL (UG/L AS ZN)	01/12/77-07/14/77	0	4	
BICA0002	No	01100	TIN, DISSOLVED (UG/L AS SN)	10/01/70-04/13/71	0	3	
BICA0061	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	05/27/57-05/27/57	0	1	
BICA0139	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	01/11/77-07/06/77	0	4	
BICA0186	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	01/11/77-07/06/77	0	4	
BICA0199	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	01/12/77-07/06/77	0	4	
BICA0209	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	01/12/77-07/14/77	0	4	
BICA0002	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/01/70-03/14/91	20	11	
BICA0097	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/08/78-10/08/78	0	1	
BICA0104	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/08/78-10/08/78	0	1	
BICA0105	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/08/78-10/08/78	0	1	
BICA0107	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/07/78-10/07/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0116	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/08/78-10/08/78	0	1	
BICA0117	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/08/78-10/08/78	0	1	
BICA0125	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/08/78-10/08/78	0	1	
BICA0126	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/14/78-10/14/78	0	1	
BICA0130	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/15/78-10/15/78	0	1	
BICA0131	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/15/78-10/15/78	0	1	
BICA0133	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/15/79-10/15/79	0	1	
BICA0137	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/15/78-10/15/78	0	1	
BICA0138	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/08/78-10/08/78	0	1	
BICA0144	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/29/78-10/29/78	0	1	
BICA0146	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/15/78-10/15/78	0	1	
BICA0147	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/15/78-10/29/78	0	2	
BICA0150	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/15/78-10/15/78	0	1	
BICA0157	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/15/78-10/15/78	0	1	
BICA0160	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/15/78-10/15/78	0	1	
BICA0161	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/29/78-10/29/78	0	1	
BICA0166	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/15/78-10/15/78	0	1	
BICA0167	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/29/78-10/29/78	0	1	
BICA0168	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/14/78-10/14/78	0	1	
BICA0171	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/17/78-10/17/78	0	1	
BICA0185	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/15/78-10/15/78	0	1	
BICA0187	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/29/78-10/29/78	0	1	
BICA0188	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/29/78-10/29/78	0	1	
BICA0193	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/15/78-10/15/78	0	1	
BICA0194	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/15/78-10/15/78	0	1	
BICA0197	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/05/78-11/05/78	0	1	
BICA0198	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/05/78-11/05/78	0	1	
BICA0201	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/05/78-11/05/78	0	1	
BICA0202	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/05/78-11/05/78	0	1	
BICA0203	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/05/78-11/05/78	0	1	
BICA0204	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/07/78-11/07/78	0	1	
BICA0205	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/05/78-11/05/78	0	1	
BICA0206	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/05/78-11/05/78	0	1	
BICA0097	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/08/78-10/08/78	0	1	
BICA0104	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/08/78-10/08/78	0	1	
BICA0105	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/08/78-10/08/78	0	1	
BICA0107	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/07/78-10/07/78	0	1	
BICA0116	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/08/78-10/08/78	0	1	
BICA0117	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/08/78-10/08/78	0	1	
BICA0125	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/08/78-10/08/78	0	1	
BICA0126	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/14/78-10/14/78	0	1	
BICA0130	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/15/78-10/15/78	0	1	
BICA0131	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/15/78-10/15/78	0	1	
BICA0133	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/15/79-10/15/79	0	1	
BICA0137	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/15/78-10/15/78	0	1	
BICA0138	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/08/78-10/08/78	0	1	
BICA0144	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/29/78-10/29/78	0	1	
BICA0146	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/15/78-10/15/78	0	1	
BICA0147	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/15/78-10/29/78	0	2	
BICA0150	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/15/78-10/15/78	0	1	
BICA0157	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/15/78-10/15/78	0	1	
BICA0160	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/15/78-10/15/78	0	1	
BICA0161	Yes	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/29/78-10/29/78	0	1	
BICA0166	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/15/78-10/15/78	0	1	
BICA0167	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/29/78-10/29/78	0	1	
BICA0168	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/14/78-10/14/78	0	1	
BICA0171	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/17/78-10/17/78	0	1	
BICA0185	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/15/78-10/15/78	0	1	
BICA0187	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/29/78-10/29/78	0	1	
BICA0188	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/29/78-10/29/78	0	1	
BICA0193	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/15/78-10/15/78	0	1	
BICA0194	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	10/15/78-10/15/78	0	1	
BICA0197	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	11/05/78-11/05/78	0	1	
BICA0198	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	11/05/78-11/05/78	0	1	
BICA0201	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	11/05/78-11/05/78	0	1	
BICA0202	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	11/05/78-11/05/78	0	1	
BICA0203	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	11/05/78-11/05/78	0	1	
BICA0204	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	11/07/78-11/07/78	0	1	
BICA0205	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	11/05/78-11/05/78	0	1	
BICA0206	No	01110	CERIUM, DISSOLVED (UG/L AS CE)	11/05/78-11/05/78	0	1	
BICA0002	No	01120	GALLIUM, DISSOLVED (UG/L AS GA)	10/01/70-04/13/71	0	3	
BICA0002	No	01125	GERMANIUM, DISSOLVED (UG/L AS GE)	10/01/70-04/13/71	0	3	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0002	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/01/70-03/14/91	20	14	
BICA0097	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/08/78-10/08/78	0	1	
BICA0104	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/08/78-10/08/78	0	1	
BICA0105	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/08/78-10/08/78	0	1	
BICA0107	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/07/78-10/07/78	0	1	
BICA0116	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/08/78-10/08/78	0	1	
BICA0117	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/08/78-10/08/78	0	1	
BICA0125	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/08/78-10/08/78	0	1	
BICA0126	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/14/78-10/14/78	0	1	
BICA0130	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/15/78-10/15/78	0	1	
BICA0131	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/15/78-10/15/78	0	1	
BICA0133	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/15/79-10/15/79	0	1	
BICA0137	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/15/78-10/15/78	0	1	
BICA0138	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/08/78-10/08/78	0	1	
BICA0144	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/29/78-10/29/78	0	1	
BICA0146	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/15/78-10/15/78	0	1	
BICA0147	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/15/78-10/29/78	0	2	
BICA0150	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/15/78-10/15/78	0	1	
BICA0157	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/15/78-10/15/78	0	1	
BICA0160	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/15/78-10/15/78	0	1	
BICA0161	Yes	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/29/78-10/29/78	0	1	
BICA0166	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/15/78-10/15/78	0	1	
BICA0167	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/29/78-10/29/78	0	1	
BICA0168	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/14/78-10/14/78	0	1	
BICA0171	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/17/78-10/17/78	0	1	
BICA0185	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/15/78-10/15/78	0	1	
BICA0187	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/29/78-10/29/78	0	1	
BICA0188	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/29/78-10/29/78	0	1	
BICA0193	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/15/78-10/15/78	0	1	
BICA0194	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/15/78-10/15/78	0	1	
BICA0197	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/05/78-11/05/78	0	1	
BICA0198	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/05/78-11/05/78	0	1	
BICA0201	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/05/78-11/05/78	0	1	
BICA0202	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/05/78-11/05/78	0	1	
BICA0203	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/05/78-11/05/78	0	1	
BICA0204	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/07/78-11/07/78	0	1	
BICA0205	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/05/78-11/05/78	0	1	
BICA0206	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/05/78-11/05/78	0	1	
BICA0061	No	01132	LITHIUM, TOTAL (UG/L AS LI)	05/27/57-05/27/57	0	1	
BICA0139	No	01132	LITHIUM, TOTAL (UG/L AS LI)	01/11/77-07/06/77	0	4	
BICA0186	No	01132	LITHIUM, TOTAL (UG/L AS LI)	01/11/77-07/06/77	0	4	
BICA0199	No	01132	LITHIUM, TOTAL (UG/L AS LI)	01/12/77-07/06/77	0	4	
BICA0209	No	01132	LITHIUM, TOTAL (UG/L AS LI)	01/12/77-07/14/77	0	4	
BICA0002	No	01135	RUBIDIUM, DISSOLVED (UG/L AS RB)	10/01/70-04/13/71	0	3	
BICA0097	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/08/78-10/08/78	0	1	
BICA0104	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/08/78-10/08/78	0	1	
BICA0105	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/08/78-10/08/78	0	1	
BICA0107	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/07/78-10/07/78	0	1	
BICA0116	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/08/78-10/08/78	0	1	
BICA0117	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/08/78-10/08/78	0	1	
BICA0125	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/08/78-10/08/78	0	1	
BICA0126	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/14/78-10/14/78	0	1	
BICA0130	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/15/78-10/15/78	0	1	
BICA0131	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/15/78-10/15/78	0	1	
BICA0133	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/15/79-10/15/79	0	1	
BICA0137	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/15/78-10/15/78	0	1	
BICA0138	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/08/78-10/08/78	0	1	
BICA0144	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/29/78-10/29/78	0	1	
BICA0146	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/15/78-10/15/78	0	1	
BICA0147	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/15/78-10/29/78	0	2	
BICA0150	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/15/78-10/15/78	0	1	
BICA0157	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/15/78-10/15/78	0	1	
BICA0160	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/15/78-10/15/78	0	1	
BICA0161	Yes	01140	SILICON, DISSOLVED (UG/L AS SI)	10/29/78-10/29/78	0	1	
BICA0166	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/15/78-10/15/78	0	1	
BICA0167	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/29/78-10/29/78	0	1	
BICA0168	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/14/78-10/14/78	0	1	
BICA0171	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/17/78-10/17/78	0	1	
BICA0185	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/15/78-10/15/78	0	1	
BICA0187	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/29/78-10/29/78	0	1	
BICA0188	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/29/78-10/29/78	0	1	
BICA0193	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/15/78-10/15/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0194	No	01140	SILICON, DISSOLVED (UG/L AS SI)	10/15/78-10/15/78	0	1	
BICA0197	No	01140	SILICON, DISSOLVED (UG/L AS SI)	11/05/78-11/05/78	0	1	
BICA0198	No	01140	SILICON, DISSOLVED (UG/L AS SI)	11/05/78-11/05/78	0	1	
BICA0201	No	01140	SILICON, DISSOLVED (UG/L AS SI)	11/05/78-11/05/78	0	1	
BICA0202	No	01140	SILICON, DISSOLVED (UG/L AS SI)	11/05/78-11/05/78	0	1	
BICA0203	No	01140	SILICON, DISSOLVED (UG/L AS SI)	11/05/78-11/05/78	0	1	
BICA0204	No	01140	SILICON, DISSOLVED (UG/L AS SI)	11/07/78-11/07/78	0	1	
BICA0205	No	01140	SILICON, DISSOLVED (UG/L AS SI)	11/05/78-11/05/78	0	1	
BICA0206	No	01140	SILICON, DISSOLVED (UG/L AS SI)	11/05/78-11/05/78	0	1	
BICA0001	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	02/26/73-12/05/73	0	5	
BICA0002	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	11/04/87-03/14/91	3	19	
BICA0014	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	02/08/73-02/08/73	0	1	
BICA0019	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	02/08/89-08/31/92	3	11	
BICA0026	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	02/08/89-08/23/89	0	3	
BICA0064	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	07/26/88-07/26/88	0	1	
BICA0139	No	01147	SELENIUM, TOTAL (UG/L AS SE)	01/11/77-07/06/77	0	4	
BICA0186	No	01147	SELENIUM, TOTAL (UG/L AS SE)	01/11/77-07/06/77	0	4	
BICA0199	No	01147	SELENIUM, TOTAL (UG/L AS SE)	01/12/77-07/06/77	0	4	
BICA0209	No	01147	SELENIUM, TOTAL (UG/L AS SE)	01/12/77-07/14/77	0	4	
BICA0002	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/01/70-04/13/71	0	3	
BICA0071	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/06/78-07/06/78	0	1	
BICA0076	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/05/78-07/05/78	0	1	
BICA0078	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/05/78-07/05/78	0	1	
BICA0081	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/05/78-07/05/78	0	1	
BICA0082	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/05/78-07/05/78	0	1	
BICA0085	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/05/78-07/05/78	0	1	
BICA0086	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/05/78-07/05/78	0	1	
BICA0088	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	06/30/78-06/30/78	0	1	
BICA0089	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	06/30/78-06/30/78	0	1	
BICA0090	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/15/78-07/15/78	0	1	
BICA0091	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	06/30/78-06/30/78	0	1	
BICA0092	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/15/78-07/15/78	0	1	
BICA0093	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	06/30/78-06/30/78	0	1	
BICA0094	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	06/30/78-06/30/78	0	1	
BICA0095	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/05/78-07/05/78	0	1	
BICA0096	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/15/78-07/15/78	0	1	
BICA0097	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/08/78-10/08/78	0	1	
BICA0098	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/05/78-07/05/78	0	1	
BICA0101	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/05/78-07/05/78	0	1	
BICA0102	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/05/78-07/05/78	0	1	
BICA0103	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/05/78-07/05/78	0	1	
BICA0104	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/08/78-10/08/78	0	1	
BICA0105	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/08/78-10/08/78	0	1	
BICA0106	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	06/30/78-06/30/78	0	1	
BICA0107	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/07/78-10/07/78	0	1	
BICA0108	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	06/30/78-06/30/78	0	1	
BICA0109	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	06/30/78-06/30/78	0	1	
BICA0110	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/05/78-07/05/78	0	1	
BICA0111	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	04/14/78-04/14/78	0	1	
BICA0112	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/14/78-07/14/78	0	1	
BICA0114	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/14/78-07/14/78	0	1	
BICA0116	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/08/78-10/08/78	0	1	
BICA0117	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/08/78-10/08/78	0	1	
BICA0118	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/14/78-07/14/78	0	1	
BICA0119	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/14/78-07/14/78	0	1	
BICA0121	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/14/78-07/14/78	0	1	
BICA0122	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/14/78-07/14/78	0	1	
BICA0125	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/08/78-10/08/78	0	1	
BICA0126	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/14/78-10/14/78	0	1	
BICA0130	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/15/78-10/15/78	0	1	
BICA0131	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/15/78-10/15/78	0	1	
BICA0133	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/15/79-10/15/79	0	1	
BICA0135	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	0	1	
BICA0137	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/15/78-10/15/78	0	1	
BICA0138	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/08/78-10/08/78	0	1	
BICA0141	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	0	1	
BICA0144	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/29/78-10/29/78	0	1	
BICA0145	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	0	1	
BICA0146	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/15/78-10/15/78	0	1	
BICA0147	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/15/78-10/29/78	0	2	
BICA0150	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/15/78-10/15/78	0	1	
BICA0151	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0154	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	0	1	
BICA0155	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	0	1	
BICA0156	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	0	1	
BICA0157	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/15/78-10/15/78	0	1	
BICA0160	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/15/78-10/15/78	0	1	
BICA0161	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/29/78-10/29/78	0	1	
BICA0163	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	0	1	
BICA0166	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/15/78-10/15/78	0	1	
BICA0167	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/29/78-10/29/78	0	1	
BICA0168	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/14/78-10/14/78	0	1	
BICA0171	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/17/78-10/17/78	0	1	
BICA0179	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	0	1	
BICA0183	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	0	1	
BICA0185	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/15/78-10/15/78	0	1	
BICA0187	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/29/78-10/29/78	0	1	
BICA0188	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/29/78-10/29/78	0	1	
BICA0189	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	0	1	
BICA0191	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	0	1	
BICA0192	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	0	1	
BICA0193	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/15/78-10/15/78	0	1	
BICA0194	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/15/78-10/15/78	0	1	
BICA0196	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	0	1	
BICA0197	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	11/05/78-11/05/78	0	1	
BICA0198	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	11/05/78-11/05/78	0	1	
BICA0200	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/19/79-01/19/79	0	1	
BICA0201	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	11/05/78-11/05/78	0	1	
BICA0202	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	11/05/78-11/05/78	0	1	
BICA0203	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	11/05/78-11/05/78	0	1	
BICA0204	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	11/07/78-11/07/78	0	1	
BICA0205	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	11/05/78-11/05/78	0	1	
BICA0206	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	11/05/78-11/05/78	0	1	
BICA0002	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/01/70-04/13/71	0	3	
BICA0097	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/08/78-10/08/78	0	1	
BICA0104	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/08/78-10/08/78	0	1	
BICA0105	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/08/78-10/08/78	0	1	
BICA0107	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/07/78-10/07/78	0	1	
BICA0116	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/08/78-10/08/78	0	1	
BICA0117	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/08/78-10/08/78	0	1	
BICA0125	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/08/78-10/08/78	0	1	
BICA0126	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/14/78-10/14/78	0	1	
BICA0130	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/15/78-10/15/78	0	1	
BICA0131	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/15/78-10/15/78	0	1	
BICA0133	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/15/79-10/15/79	0	1	
BICA0137	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/15/78-10/15/78	0	1	
BICA0138	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/08/78-10/08/78	0	1	
BICA0144	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/29/78-10/29/78	0	1	
BICA0146	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/15/78-10/15/78	0	1	
BICA0147	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/15/78-10/29/78	0	2	
BICA0150	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/15/78-10/15/78	0	1	
BICA0157	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/15/78-10/15/78	0	1	
BICA0160	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/15/78-10/15/78	0	1	
BICA0161	Yes	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/29/78-10/29/78	0	1	
BICA0166	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/15/78-10/15/78	0	1	
BICA0167	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/29/78-10/29/78	0	1	
BICA0168	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/14/78-10/14/78	0	1	
BICA0171	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/17/78-10/17/78	0	1	
BICA0185	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/15/78-10/15/78	0	1	
BICA0187	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/29/78-10/29/78	0	1	
BICA0188	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/29/78-10/29/78	0	1	
BICA0193	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/15/78-10/15/78	0	1	
BICA0194	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/15/78-10/15/78	0	1	
BICA0197	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	11/05/78-11/05/78	0	1	
BICA0198	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	11/05/78-11/05/78	0	1	
BICA0201	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	11/05/78-11/05/78	0	1	
BICA0202	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	11/05/78-11/05/78	0	1	
BICA0203	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	11/05/78-11/05/78	0	1	
BICA0204	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	11/07/78-11/07/78	0	1	
BICA0205	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	11/05/78-11/05/78	0	1	
BICA0206	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	11/05/78-11/05/78	0	1	
BICA0097	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/08/78-10/08/78	0	1	
BICA0104	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/08/78-10/08/78	0	1	
BICA0105	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/08/78-10/08/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0107	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/07/78-10/07/78	0	1	
BICA0116	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/08/78-10/08/78	0	1	
BICA0117	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/08/78-10/08/78	0	1	
BICA0125	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/08/78-10/08/78	0	1	
BICA0126	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/14/78-10/14/78	0	1	
BICA0130	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/15/78-10/15/78	0	1	
BICA0131	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/15/78-10/15/78	0	1	
BICA0133	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/15/79-10/15/79	0	1	
BICA0137	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/15/78-10/15/78	0	1	
BICA0138	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/08/78-10/08/78	0	1	
BICA0144	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/29/78-10/29/78	0	1	
BICA0146	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/15/78-10/15/78	0	1	
BICA0147	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/15/78-10/29/78	0	2	
BICA0150	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/15/78-10/15/78	0	1	
BICA0157	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/15/78-10/15/78	0	1	
BICA0160	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/15/78-10/15/78	0	1	
BICA0161	Yes	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/29/78-10/29/78	0	1	
BICA0166	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/15/78-10/15/78	0	1	
BICA0167	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/29/78-10/29/78	0	1	
BICA0168	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/14/78-10/14/78	0	1	
BICA0171	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/17/78-10/17/78	0	1	
BICA0185	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/15/78-10/15/78	0	1	
BICA0187	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/29/78-10/29/78	0	1	
BICA0188	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/29/78-10/29/78	0	1	
BICA0193	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/15/78-10/15/78	0	1	
BICA0194	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/15/78-10/15/78	0	1	
BICA0197	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	11/05/78-11/05/78	0	1	
BICA0198	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	11/05/78-11/05/78	0	1	
BICA0201	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	11/05/78-11/05/78	0	1	
BICA0202	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	11/05/78-11/05/78	0	1	
BICA0203	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	11/05/78-11/05/78	0	1	
BICA0204	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	11/07/78-11/07/78	0	1	
BICA0205	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	11/05/78-11/05/78	0	1	
BICA0206	No	01187	SCANDIUM, DISSOLVED (UG/L AS SC)	11/05/78-11/05/78	0	1	
BICA0097	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/08/78-10/08/78	0	1	
BICA0104	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/08/78-10/08/78	0	1	
BICA0105	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/08/78-10/08/78	0	1	
BICA0107	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/07/78-10/07/78	0	1	
BICA0116	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/08/78-10/08/78	0	1	
BICA0117	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/08/78-10/08/78	0	1	
BICA0125	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/08/78-10/08/78	0	1	
BICA0126	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/14/78-10/14/78	0	1	
BICA0130	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/15/78-10/15/78	0	1	
BICA0131	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/15/78-10/15/78	0	1	
BICA0133	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/15/79-10/15/79	0	1	
BICA0137	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/15/78-10/15/78	0	1	
BICA0138	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/08/78-10/08/78	0	1	
BICA0144	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/29/78-10/29/78	0	1	
BICA0146	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/15/78-10/15/78	0	1	
BICA0147	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/15/78-10/29/78	0	2	
BICA0150	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/15/78-10/15/78	0	1	
BICA0157	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/15/78-10/15/78	0	1	
BICA0160	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/15/78-10/15/78	0	1	
BICA0161	Yes	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/29/78-10/29/78	0	1	
BICA0166	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/15/78-10/15/78	0	1	
BICA0167	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/29/78-10/29/78	0	1	
BICA0168	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/14/78-10/14/78	0	1	
BICA0171	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/17/78-10/17/78	0	1	
BICA0185	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/15/78-10/15/78	0	1	
BICA0187	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/29/78-10/29/78	0	1	
BICA0188	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/29/78-10/29/78	0	1	
BICA0193	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/15/78-10/15/78	0	1	
BICA0194	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/15/78-10/15/78	0	1	
BICA0197	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	11/05/78-11/05/78	0	1	
BICA0198	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	11/05/78-11/05/78	0	1	
BICA0201	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	11/05/78-11/05/78	0	1	
BICA0202	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	11/05/78-11/05/78	0	1	
BICA0203	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	11/05/78-11/05/78	0	1	
BICA0204	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	11/07/78-11/07/78	0	1	
BICA0205	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	11/05/78-11/05/78	0	1	
BICA0206	No	01201	YTTRIUM, DISSOLVED (UG/L AS Y)	11/05/78-11/05/78	0	1	
BICA0005	No	01501	ALPHA, TOTAL	09/18/75-09/18/75	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0020	No	01501	ALPHA, TOTAL	06/09/76-04/19/78	1	8	
BICA0005	No	01502	ALPHA, TOTAL, COUNTING ERROR	09/18/75-09/18/75	0	1	
BICA0020	No	01502	ALPHA, TOTAL, COUNTING ERROR	06/09/76-04/19/78	1	8	
BICA0016	No	01503	ALPHA, DISSOLVED	06/29/67-05/15/71	3	15	
BICA0046	Yes	01503	ALPHA, DISSOLVED	12/14/67-05/15/71	3	11	
BICA0016	No	01504	ALPHA, DISSOLVED, COUNTING ERROR	06/29/67-05/15/71	3	15	
BICA0046	Yes	01504	ALPHA, DISSOLVED, COUNTING ERROR	12/14/67-05/15/71	3	11	
BICA0016	No	01505	ALPHA, SUSPENDED	06/29/67-05/15/71	3	14	
BICA0046	Yes	01505	ALPHA, SUSPENDED	12/14/67-05/15/71	3	12	
BICA0016	No	01506	ALPHA, SUSPENDED, COUNTING ERROR	06/29/67-05/15/71	3	14	
BICA0046	Yes	01506	ALPHA, SUSPENDED, COUNTING ERROR	12/14/67-05/15/71	3	12	
BICA0016	No	01507	ALPHA, GROSS IN SEDIMENT (PC/G OF DRY SOLIDS)	06/29/67-05/15/71	3	12	
BICA0046	Yes	01507	ALPHA, GROSS IN SEDIMENT (PC/G OF DRY SOLIDS)	12/14/67-10/15/70	2	9	
BICA0016	No	01508	ALPHA, GROSS IN SEDIMENT, COUNTING ERROR	06/29/67-05/15/71	3	12	
BICA0046	Yes	01508	ALPHA, GROSS IN SEDIMENT, COUNTING ERROR	12/14/67-10/15/70	2	9	
BICA0005	No	03501	BETA, TOTAL	09/18/75-09/18/75	0	1	
BICA0020	No	03501	BETA, TOTAL	06/09/76-04/19/78	1	8	
BICA0005	No	03502	BETA, TOTAL, COUNTING ERROR	09/18/75-09/18/75	0	1	
BICA0020	No	03502	BETA, TOTAL, COUNTING ERROR	06/09/76-04/19/78	1	8	
BICA0016	No	03503	BETA, DISSOLVED	06/29/67-05/15/71	3	16	
BICA0046	Yes	03503	BETA, DISSOLVED	12/14/67-05/15/71	3	14	
BICA0016	No	03504	BETA, DISSOLVED, COUNTING ERROR	06/29/67-05/15/71	3	16	
BICA0046	Yes	03504	BETA, DISSOLVED, COUNTING ERROR	12/14/67-05/15/71	3	14	
BICA0016	No	03505	BETA, SUSPENDED	06/29/67-05/15/71	3	16	
BICA0046	Yes	03505	BETA, SUSPENDED	12/14/67-05/15/71	3	13	
BICA0016	No	03506	BETA, SUSPENDED, COUNTING ERROR	06/29/67-05/15/71	3	16	
BICA0046	Yes	03506	BETA, SUSPENDED, COUNTING ERROR	12/14/67-05/15/71	3	13	
BICA0016	No	03507	BETA, GROSS IN SEDIMENT (PC/G OF DRY SOLIDS)	06/29/67-05/15/71	3	12	
BICA0046	Yes	03507	BETA, GROSS IN SEDIMENT (PC/G OF DRY SOLIDS)	12/14/67-05/15/71	3	11	
BICA0016	No	03508	BETA, GROSS IN SEDIMENT, COUNTING ERROR	06/29/67-05/15/71	3	12	
BICA0046	Yes	03508	BETA, GROSS IN SEDIMENT, COUNTING ERROR	12/14/67-05/15/71	3	11	
BICA0002	No	04024	PROPACHLOR,DISSOLVED,WATER,TOTAL RECOVERABLE UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	04024	PROPACHLOR,DISSOLVED,WATER,TOTAL RECOVERABLE UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	04028	BUTYLATE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	04028	BUTYLATE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	04029	BROMACIL, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	04029	BROMACIL, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	04035	SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	04035	SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	04037	PROMETON, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	04037	PROMETON, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	04040	DEETHYL ATRAZINE,DISSOLVED,WATER,TOT REC UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	04040	DEETHYL ATRAZINE,DISSOLVED,WATER,TOT REC UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	04041	CYANAZINE,DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	04041	CYANAZINE,DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	04091	CLOPYRALID, TOTAL RECOVERABLE, WATER UG/L	08/08/91-08/31/92	1	2	
BICA0002	No	04095	FONOFOS, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	04095	FONOFOS, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/27/96-07/30/96	0	2	
BICA0003	No	09503	RADIUM 226, DISSOLVED	07/24/73-07/24/73	0	1	
BICA0003	No	09505	RADIUM 226, SUSPENDED	07/24/73-07/24/73	0	1	
BICA0003	No	22703	URANIUM, NATURAL, DISSOLVED	07/24/73-07/24/73	0	1	
BICA0007	No	22703	URANIUM, NATURAL, DISSOLVED	08/01/76-08/01/76	0	1	
BICA0008	Yes	22703	URANIUM, NATURAL, DISSOLVED	07/24/76-07/24/76	0	1	
BICA0009	No	22703	URANIUM, NATURAL, DISSOLVED	08/01/76-08/01/76	0	1	
BICA0011	No	22703	URANIUM, NATURAL, DISSOLVED	08/01/76-08/01/76	0	1	
BICA0012	No	22703	URANIUM, NATURAL, DISSOLVED	07/31/76-07/31/76	0	1	
BICA0017	No	22703	URANIUM, NATURAL, DISSOLVED	07/24/76-07/24/76	0	1	
BICA0018	No	22703	URANIUM, NATURAL, DISSOLVED	07/24/76-07/24/76	0	1	
BICA0030	No	22703	URANIUM, NATURAL, DISSOLVED	08/05/76-08/05/76	0	1	
BICA0033	No	22703	URANIUM, NATURAL, DISSOLVED	07/24/76-07/24/76	0	1	
BICA0037	No	22703	URANIUM, NATURAL, DISSOLVED	08/05/76-08/05/76	0	1	
BICA0038	No	22703	URANIUM, NATURAL, DISSOLVED	07/31/76-07/31/76	0	1	
BICA0040	No	22703	URANIUM, NATURAL, DISSOLVED	08/05/76-08/05/76	0	1	
BICA0041	No	22703	URANIUM, NATURAL, DISSOLVED	07/31/76-07/31/76	0	1	
BICA0043	No	22703	URANIUM, NATURAL, DISSOLVED	08/05/76-08/05/76	0	1	
BICA0048	No	22703	URANIUM, NATURAL, DISSOLVED	07/31/76-07/31/76	0	1	
BICA0054	No	22703	URANIUM, NATURAL, DISSOLVED	07/31/76-07/31/76	0	1	
BICA0058	No	22703	URANIUM, NATURAL, DISSOLVED	07/31/76-07/31/76	0	1	
BICA0060	No	22703	URANIUM, NATURAL, DISSOLVED	07/31/76-07/31/76	0	1	
BICA0071	Yes	22703	URANIUM, NATURAL, DISSOLVED	07/06/78-07/06/78	0	1	
BICA0076	Yes	22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	0	1	
BICA0078	Yes	22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0081	Yes	22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	0	1	
BICA0082	Yes	22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	0	1	
BICA0085	Yes	22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	0	1	
BICA0086	Yes	22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	0	1	
BICA0088	Yes	22703	URANIUM, NATURAL, DISSOLVED	06/30/78-06/30/78	0	1	
BICA0089	Yes	22703	URANIUM, NATURAL, DISSOLVED	06/30/78-06/30/78	0	1	
BICA0090	No	22703	URANIUM, NATURAL, DISSOLVED	07/15/78-07/15/78	0	1	
BICA0091	No	22703	URANIUM, NATURAL, DISSOLVED	06/30/78-06/30/78	0	1	
BICA0092	No	22703	URANIUM, NATURAL, DISSOLVED	07/15/78-07/15/78	0	1	
BICA0093	No	22703	URANIUM, NATURAL, DISSOLVED	06/30/78-06/30/78	0	1	
BICA0094	No	22703	URANIUM, NATURAL, DISSOLVED	06/30/78-06/30/78	0	1	
BICA0095	No	22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	0	1	
BICA0096	No	22703	URANIUM, NATURAL, DISSOLVED	07/15/78-07/15/78	0	1	
BICA0098	No	22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	0	1	
BICA0101	No	22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	0	1	
BICA0102	No	22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	0	1	
BICA0103	No	22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	0	1	
BICA0104	No	22703	URANIUM, NATURAL, DISSOLVED	10/08/78-10/08/78	0	1	
BICA0105	No	22703	URANIUM, NATURAL, DISSOLVED	10/08/78-10/08/78	0	1	
BICA0106	No	22703	URANIUM, NATURAL, DISSOLVED	06/30/78-06/30/78	0	1	
BICA0107	No	22703	URANIUM, NATURAL, DISSOLVED	10/07/78-10/07/78	0	1	
BICA0108	No	22703	URANIUM, NATURAL, DISSOLVED	06/30/78-06/30/78	0	1	
BICA0109	No	22703	URANIUM, NATURAL, DISSOLVED	06/30/78-06/30/78	0	1	
BICA0110	No	22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	0	1	
BICA0111	No	22703	URANIUM, NATURAL, DISSOLVED	04/14/78-04/14/78	0	1	
BICA0112	No	22703	URANIUM, NATURAL, DISSOLVED	07/14/78-07/14/78	0	1	
BICA0114	No	22703	URANIUM, NATURAL, DISSOLVED	07/14/78-07/14/78	0	1	
BICA0116	No	22703	URANIUM, NATURAL, DISSOLVED	10/08/78-10/08/78	0	1	
BICA0117	No	22703	URANIUM, NATURAL, DISSOLVED	10/08/78-10/08/78	0	1	
BICA0118	No	22703	URANIUM, NATURAL, DISSOLVED	07/14/78-07/14/78	0	1	
BICA0119	No	22703	URANIUM, NATURAL, DISSOLVED	07/14/78-07/14/78	0	1	
BICA0121	No	22703	URANIUM, NATURAL, DISSOLVED	07/14/78-07/14/78	0	1	
BICA0122	No	22703	URANIUM, NATURAL, DISSOLVED	07/14/78-07/14/78	0	1	
BICA0125	No	22703	URANIUM, NATURAL, DISSOLVED	10/08/78-10/08/78	0	1	
BICA0126	No	22703	URANIUM, NATURAL, DISSOLVED	10/14/78-10/14/78	0	1	
BICA0130	No	22703	URANIUM, NATURAL, DISSOLVED	10/15/78-10/15/78	0	1	
BICA0131	No	22703	URANIUM, NATURAL, DISSOLVED	10/15/78-10/15/78	0	1	
BICA0133	No	22703	URANIUM, NATURAL, DISSOLVED	10/15/79-10/15/79	0	1	
BICA0135	No	22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	0	1	
BICA0137	No	22703	URANIUM, NATURAL, DISSOLVED	10/15/78-10/15/78	0	1	
BICA0138	No	22703	URANIUM, NATURAL, DISSOLVED	10/08/78-10/08/78	0	1	
BICA0141	No	22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	0	1	
BICA0144	No	22703	URANIUM, NATURAL, DISSOLVED	10/29/78-10/29/78	0	1	
BICA0145	Yes	22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	0	1	
BICA0146	No	22703	URANIUM, NATURAL, DISSOLVED	10/15/78-10/15/78	0	1	
BICA0147	No	22703	URANIUM, NATURAL, DISSOLVED	10/15/78-10/29/78	0	2	
BICA0150	No	22703	URANIUM, NATURAL, DISSOLVED	10/15/78-10/15/78	0	1	
BICA0151	No	22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	0	1	
BICA0154	Yes	22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	0	1	
BICA0155	No	22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	0	1	
BICA0156	No	22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	0	1	
BICA0157	No	22703	URANIUM, NATURAL, DISSOLVED	10/15/78-10/15/78	0	1	
BICA0160	No	22703	URANIUM, NATURAL, DISSOLVED	10/15/78-10/15/78	0	1	
BICA0161	Yes	22703	URANIUM, NATURAL, DISSOLVED	10/29/78-10/29/78	0	1	
BICA0163	Yes	22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	0	1	
BICA0166	No	22703	URANIUM, NATURAL, DISSOLVED	10/15/78-10/15/78	0	1	
BICA0167	No	22703	URANIUM, NATURAL, DISSOLVED	10/29/78-10/29/78	0	1	
BICA0168	No	22703	URANIUM, NATURAL, DISSOLVED	10/14/78-10/14/78	0	1	
BICA0171	No	22703	URANIUM, NATURAL, DISSOLVED	10/17/78-10/17/78	0	1	
BICA0179	No	22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	0	1	
BICA0183	No	22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	0	1	
BICA0185	No	22703	URANIUM, NATURAL, DISSOLVED	10/15/78-10/15/78	0	1	
BICA0187	No	22703	URANIUM, NATURAL, DISSOLVED	10/29/78-10/29/78	0	1	
BICA0188	No	22703	URANIUM, NATURAL, DISSOLVED	10/29/78-10/29/78	0	1	
BICA0189	No	22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	0	1	
BICA0191	No	22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	0	1	
BICA0192	No	22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	0	1	
BICA0193	No	22703	URANIUM, NATURAL, DISSOLVED	10/15/78-10/15/78	0	1	
BICA0194	No	22703	URANIUM, NATURAL, DISSOLVED	10/15/78-10/15/78	0	1	
BICA0196	No	22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	0	1	
BICA0197	No	22703	URANIUM, NATURAL, DISSOLVED	11/05/78-11/05/78	0	1	
BICA0198	No	22703	URANIUM, NATURAL, DISSOLVED	11/05/78-11/05/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0200	No	22703	URANIUM, NATURAL, DISSOLVED	01/19/79-01/19/79	0	1	
BICA0201	No	22703	URANIUM, NATURAL, DISSOLVED	11/05/78-11/05/78	0	1	
BICA0202	No	22703	URANIUM, NATURAL, DISSOLVED	11/05/78-11/05/78	0	1	
BICA0203	No	22703	URANIUM, NATURAL, DISSOLVED	11/05/78-11/05/78	0	1	
BICA0204	No	22703	URANIUM, NATURAL, DISSOLVED	11/07/78-11/07/78	0	1	
BICA0205	No	22703	URANIUM, NATURAL, DISSOLVED	11/05/78-11/05/78	0	1	
BICA0206	No	22703	URANIUM, NATURAL, DISSOLVED	11/05/78-11/05/78	0	1	
BICA0003	No	22705	URANIUM, NATURAL, SUSPENDED	07/24/73-07/24/73	0	1	
BICA0002	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	08/29/69-10/31/73	4	11	
BICA0178	Yes	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	10/24/76-10/24/76	0	1	
BICA0180	Yes	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/23/69-04/20/70	0	6	
BICA0181	Yes	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	10/24/76-10/24/76	0	1	
BICA0047	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	03/24/67-10/07/74	7	59	
BICA0178	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	10/24/76-10/24/76	0	1	
BICA0181	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	10/24/76-10/24/76	0	1	
BICA0051	Yes	31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	07/20/89-09/06/95	6	7	
BICA0053	Yes	31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	07/20/89-09/06/95	6	24	
BICA0015	No	31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	06/16/81-11/04/87	6	21	
BICA0032	Yes	31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	06/13/84-07/31/86	2	8	
BICA0055	Yes	31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	06/13/84-08/25/88	4	11	
BICA0051	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	16	137	
BICA0053	Yes	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	18	136	
BICA0047	Yes	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/05/68-09/13/71	3	56	
BICA0002	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/19/72-09/04/76	4	38	
BICA0020	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/09/76-04/19/78	1	9	
BICA0047	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/09/76-06/06/78	1	15	
BICA0178	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/24/76-10/24/76	0	1	
BICA0181	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/24/76-10/24/76	0	1	
BICA0002	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	10/03/76-07/28/89	12	84	
BICA0019	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/12/78-07/28/89	10	40	
BICA0026	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/10/82-08/23/89	7	42	
BICA0031	Yes	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/21/75-10/17/75	0	3	
BICA0042	Yes	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/21/75-10/17/75	0	3	
BICA0050	Yes	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	06/09/80-11/26/80	0	9	
BICA0068	Yes	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/21/75-10/17/75	0	3	
BICA0074	Yes	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	07/09/80-11/26/80	0	8	
BICA0100	Yes	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/21/75-10/17/75	0	3	
BICA0129	Yes	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/21/75-10/17/75	0	3	
BICA0142	Yes	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/21/75-10/17/75	0	3	
BICA0173	Yes	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/21/75-10/17/75	0	3	
BICA0034	Yes	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	05/21/75-10/17/75	0	3	
BICA0049	Yes	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	05/22/75-10/17/75	0	3	
BICA0069	Yes	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	05/22/75-10/17/75	0	3	
BICA0084	Yes	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	05/22/75-10/17/75	0	3	
BICA0128	Yes	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	05/22/75-10/17/75	0	3	
BICA0140	Yes	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	05/22/75-10/17/75	0	3	
BICA0172	Yes	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	05/22/75-10/17/75	0	3	
BICA0039	Yes	32238	CHLOROPHYLL-A,PHYTOPLANKTON,FLURORMETRIC MTH MG/M3	05/05/68-09/08/70	2	50	
BICA0066	Yes	32238	CHLOROPHYLL-A,PHYTOPLANKTON,FLURORMETRIC MTH MG/M3	05/05/68-09/08/70	2	51	
BICA0075	Yes	32238	CHLOROPHYLL-A,PHYTOPLANKTON,FLURORMETRIC MTH MG/M3	05/05/68-09/08/70	2	51	
BICA0099	Yes	32238	CHLOROPHYLL-A,PHYTOPLANKTON,FLURORMETRIC MTH MG/M3	05/05/68-09/08/70	2	49	
BICA0132	Yes	32238	CHLOROPHYLL-A,PHYTOPLANKTON,FLURORMETRIC MTH MG/M3	05/05/68-09/08/70	2	50	
BICA0174	Yes	32238	CHLOROPHYLL-A,PHYTOPLANKTON,FLURORMETRIC MTH MG/M3	05/05/68-09/08/70	2	51	
BICA0002	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	11/01/65-09/21/66	0	30	
BICA0014	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	02/08/73-02/08/73	0	1	
BICA0026	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/05/62-09/01/66	3	53	
BICA0002	No	34253	A-BHC-ALPHA DISSUG/L	03/26/96-07/30/96	0	2	
BICA0019	No	34253	A-BHC-ALPHA DISSUG/L	03/27/96-07/30/96	0	2	
BICA0002	No	34609	2,4-DIMETHYLPHENOL DRY WGTBOTUG/KG	10/24/79-09/04/80	0	3	
BICA0026	No	34609	2,4-DIMETHYLPHENOL DRY WGTBOTUG/KG	10/24/79-09/04/80	0	3	
BICA0002	No	34653	P,P'-DDE DISSUG/L	03/26/96-07/30/96	0	2	
BICA0019	No	34653	P,P'-DDE DISSUG/L	03/27/96-07/30/96	0	2	
BICA0014	No	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	02/08/73-02/08/73	0	1	
BICA0180	Yes	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	07/23/69-06/02/70	0	7	
BICA0002	No	38442	DICAMBA (BANVEL) WATER,DISSUG/L	03/26/96-07/30/96	0	2	
BICA0019	No	38442	DICAMBA (BANVEL) WATER,DISSUG/L	03/27/96-07/30/96	0	2	
BICA0002	No	38478	LINURON WATER,DISSUG/L	03/26/96-07/30/96	0	2	
BICA0019	No	38478	LINURON WATER,DISSUG/L	03/27/96-07/30/96	0	2	
BICA0002	No	38482	MCPA WATER,DISSUG/L	03/26/96-07/30/96	0	2	
BICA0019	No	38482	MCPA WATER,DISSUG/L	03/27/96-07/30/96	0	2	
BICA0002	No	38487	MCPB WATER,DISSUG/L	03/26/96-07/30/96	0	2	
BICA0019	No	38487	MCPB WATER,DISSUG/L	03/27/96-07/30/96	0	2	

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Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0002	No	38501	METHIOCARB WATER,DISSUG/L	03/26/96-07/30/96	0	2	
BICA0019	No	38501	METHIOCARB WATER,DISSUG/L	03/27/96-07/30/96	0	2	
BICA0002	No	38538	PROPOXUR WATER,DISSUG/L	03/26/96-07/30/96	0	2	
BICA0019	No	38538	PROPOXUR WATER,DISSUG/L	03/27/96-07/30/96	0	2	
BICA0002	No	38711	BENTAZON WATER, DISUG/L	03/26/96-07/30/96	0	2	
BICA0019	No	38711	BENTAZON WATER, DISUG/L	03/27/96-07/30/96	0	2	
BICA0002	No	38746	2,4-DB WATER, DISUG/L	03/26/96-07/30/96	0	2	
BICA0019	No	38746	2,4-DB WATER, DISUG/L	03/27/96-07/30/96	0	2	
BICA0002	No	38811	FLUOMETURON WATER, DISUG/L	03/26/96-07/30/96	0	2	
BICA0019	No	38811	FLUOMETURON WATER, DISUG/L	03/27/96-07/30/96	0	2	
BICA0002	No	38866	OXAMYL WATER, DISUG/L	03/26/96-07/30/96	0	2	
BICA0019	No	38866	OXAMYL WATER, DISUG/L	03/27/96-07/30/96	0	2	
BICA0002	No	38933	CHLORPYRIFOS,DISSOLVED UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	38933	CHLORPYRIFOS,DISSOLVED UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	10/25/78-09/04/80	1	5	
BICA0026	No	39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	10/25/78-09/04/80	1	5	
BICA0002	No	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	09/23/76-09/04/80	3	6	
BICA0026	No	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	09/23/76-09/04/80	3	7	
BICA0002	No	39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	10/24/79-09/04/80	0	2	
BICA0026	No	39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	10/24/79-09/04/80	0	3	
BICA0002	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	8	17	
BICA0026	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	3	9	
BICA0180	Yes	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/23/69-10/30/69	0	2	
BICA0002	No	39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	09/07/71-08/01/73	1	9	
BICA0002	No	39332	ALDRIN IN SUSP. FRAC. OF WAT. SAMP. (UG/L)	09/07/71-08/01/73	1	9	
BICA0002	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/07/71-09/04/80	8	15	
BICA0026	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/23/76-09/04/80	3	9	
BICA0002	No	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	09/07/71-09/04/80	8	17	
BICA0026	No	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	09/23/76-09/04/80	3	9	
BICA0180	Yes	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	07/23/69-10/30/69	0	2	
BICA0002	No	39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	09/07/71-07/30/96	24	11	
BICA0019	No	39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	39342	GAMMA-BHC(LINDANE),SUSPENDED,UG/L	09/07/71-08/01/73	1	9	
BICA0002	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	09/07/71-09/04/80	8	15	
BICA0026	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	09/23/76-09/04/80	3	9	
BICA0002	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	09/07/71-09/04/80	8	17	
BICA0026	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	09/23/76-09/04/80	3	9	
BICA0002	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	09/07/71-09/04/80	8	15	
BICA0026	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	09/23/76-09/04/80	3	9	
BICA0002	No	39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	09/07/71-08/01/73	1	9	
BICA0002	No	39353	CHLORDANE(TECH MIX & METABS),SUSPENDED,UG/L	09/07/71-08/01/73	1	9	
BICA0002	No	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	8	17	
BICA0026	No	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	3	9	
BICA0180	Yes	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	07/23/69-10/30/69	0	2	
BICA0002	No	39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	09/07/71-08/01/73	1	9	
BICA0002	No	39362	DDD IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	1	9	
BICA0002	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/07/71-09/04/80	8	15	
BICA0026	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/23/76-09/04/80	3	9	
BICA0002	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	8	17	
BICA0026	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	3	9	
BICA0180	Yes	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	07/23/69-10/30/69	0	2	
BICA0002	No	39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	1	9	
BICA0002	No	39367	DDE IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	1	9	
BICA0002	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/07/71-09/04/80	8	15	
BICA0026	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/23/76-09/04/80	3	9	
BICA0002	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	8	17	
BICA0026	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	3	9	
BICA0180	Yes	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	07/23/69-10/30/69	0	2	
BICA0002	No	39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	1	9	
BICA0002	No	39372	DDT IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	1	9	
BICA0002	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/07/71-09/04/80	8	15	
BICA0026	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/23/76-09/04/80	3	9	
BICA0002	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	8	17	
BICA0026	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	3	9	
BICA0180	Yes	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	07/23/69-10/30/69	0	2	
BICA0002	No	39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-07/30/96	24	11	
BICA0019	No	39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/27/96-07/30/96	0	2	
BICA0002	No	39382	DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	1	9	
BICA0002	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	09/07/71-09/04/80	8	15	
BICA0026	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	09/23/76-09/04/80	3	9	
BICA0002	No	39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	10/19/77-09/04/80	2	7	
BICA0026	No	39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	06/08/77-09/04/80	3	8	

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Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0002	No	39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/24/79-09/04/80	0	3	
BICA0026	No	39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/24/79-09/04/80	0	3	
BICA0002	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	8	17	
BICA0026	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	3	9	
BICA0180	Yes	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	07/23/69-10/30/69	0	2	
BICA0002	No	39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	1	9	
BICA0002	No	39392	ENDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	1	9	
BICA0002	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/07/71-09/04/80	8	15	
BICA0026	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/23/76-09/04/80	3	9	
BICA0002	No	39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	3	8	
BICA0026	No	39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	3	9	
BICA0002	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	3	8	
BICA0026	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	3	9	
BICA0002	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	09/23/76-09/04/80	3	9	
BICA0026	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	09/23/76-09/04/80	3	9	
BICA0002	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	8	17	
BICA0026	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	3	9	
BICA0180	Yes	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	07/23/69-10/30/69	0	2	
BICA0002	No	39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	1	9	
BICA0002	No	39412	HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	1	9	
BICA0002	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	09/07/71-09/04/80	8	15	
BICA0026	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	09/23/76-09/04/80	3	9	
BICA0002	No	39415	METOLACHLOR, WATER, DISSOLVED UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	39415	METOLACHLOR, WATER, DISSOLVED UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	8	17	
BICA0026	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	3	9	
BICA0180	Yes	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	07/23/69-10/30/69	0	2	
BICA0002	No	39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	09/07/71-08/01/73	1	9	
BICA0002	No	39422	HEPTACHLOR EPOXIDE IN SUSP. FRAC. WAT SAMP (UG/L)	09/07/71-08/01/73	1	9	
BICA0002	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	09/07/71-09/04/80	8	15	
BICA0026	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	09/23/76-09/04/80	3	9	
BICA0002	No	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	10/24/79-09/04/80	0	3	
BICA0026	No	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	10/24/79-09/04/80	0	3	
BICA0002	No	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	10/24/79-09/04/80	0	3	
BICA0026	No	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	10/24/79-09/04/80	0	3	
BICA0002	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	8	17	
BICA0026	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	3	9	
BICA0002	No	39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	1	9	
BICA0002	No	39518	PCBS IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	1	9	
BICA0002	No	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	09/07/71-09/04/80	8	15	
BICA0026	No	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	09/23/76-09/04/80	3	9	
BICA0002	No	39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	8	15	
BICA0026	No	39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	3	9	
BICA0002	No	39532	MALATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-07/30/96	24	11	
BICA0019	No	39532	MALATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/27/96-07/30/96	0	2	
BICA0002	No	39533	MALATHION IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	1	7	
BICA0002	No	39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	8	15	
BICA0026	No	39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	3	9	
BICA0002	No	39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-07/30/96	24	11	
BICA0019	No	39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/27/96-07/30/96	0	2	
BICA0002	No	39543	PARATHION IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	1	7	
BICA0002	No	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	8	15	
BICA0026	No	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	3	9	
BICA0002	No	39572	DIAZINON IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-07/30/96	24	11	
BICA0019	No	39572	DIAZINON IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/27/96-07/30/96	0	2	
BICA0002	No	39573	DIAZINON IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	1	7	
BICA0002	No	39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	8	15	
BICA0026	No	39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	3	9	
BICA0002	No	39602	METHYL PARATHION IN FILT. FRAC. WATER SAMP.(UG/L)	09/07/71-08/01/73	1	9	
BICA0002	No	39603	METHYL PARATHION IN SUSP. FRAC. WATER SAMP.(UG/L)	09/07/71-08/01/73	1	7	
BICA0002	No	39632	ATRAZINE DISSOLVED IN WATER PPB	03/26/96-07/30/96	0	2	
BICA0019	No	39632	ATRAZINE DISSOLVED IN WATER PPB	03/27/96-07/30/96	0	2	
BICA0002	No	39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	06/20/84-08/31/92	8	34	
BICA0002	No	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	09/07/71-08/31/92	20	51	
BICA0026	No	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	3	9	
BICA0180	Yes	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	07/23/69-10/30/69	0	2	
BICA0002	No	39731	2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/11/78-09/04/80	2	6	
BICA0026	No	39731	2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/11/78-09/04/80	2	6	
BICA0002	No	39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-07/30/96	24	11	
BICA0019	No	39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/27/96-07/30/96	0	2	
BICA0002	No	39733	2,4-D IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	1	9	
BICA0002	No	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	09/07/71-08/31/92	20	51	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0026	No	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	3	9	
BICA0180	Yes	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	07/23/69-10/30/69	0	2	
BICA0002	No	39741	2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/11/78-09/04/80	2	6	
BICA0026	No	39741	2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/11/78-09/04/80	2	6	
BICA0002	No	39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-07/30/96	24	11	
BICA0019	No	39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/27/96-07/30/96	0	2	
BICA0002	No	39743	2,4,5-T IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	1	9	
BICA0002	No	39755	MIREX, TOTAL (UG/L)	10/25/78-09/04/80	1	5	
BICA0026	No	39755	MIREX, TOTAL (UG/L)	10/25/78-09/04/80	1	5	
BICA0002	No	39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	10/24/79-09/04/80	0	3	
BICA0026	No	39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	10/24/79-09/04/80	0	3	
BICA0002	No	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	09/07/71-08/31/92	20	51	
BICA0026	No	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	3	9	
BICA0180	Yes	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	07/23/69-10/30/69	0	2	
BICA0002	No	39761	SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/11/78-09/04/80	2	6	
BICA0026	No	39761	SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/11/78-09/04/80	2	6	
BICA0002	No	39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-07/30/96	24	11	
BICA0019	No	39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/27/96-07/30/96	0	2	
BICA0002	No	39763	SILVEX IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	1	9	
BICA0002	No	39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	3	8	
BICA0026	No	39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	3	9	
BICA0002	No	39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	3	8	
BICA0026	No	39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	3	9	
BICA0002	No	46342	ALACHLOR (LASSO), WATER, DISSOLVED UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	46342	ALACHLOR (LASSO), WATER, DISSOLVED UG/L	03/27/96-07/30/96	0	2	
BICA0061	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	05/27/57-05/27/57	0	1	
BICA0002	No	49235	TRICLOPYR,RECOVERABLE,WATER,FILTER,GF,0.7U UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49235	TRICLOPYR,RECOVERABLE,WATER,FILTER,GF,0.7U UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	49236	PROPHAM, RECOVERABLE,WATER,FILTER,GF,0.7U UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49236	PROPHAM, RECOVERABLE,WATER,FILTER,GF,0.7U UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	49260	ACETOCHLOR, RECOVERABLE, WATER, FILTERED UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49260	ACETOCHLOR, RECOVERABLE, WATER, FILTERED UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	49291	PICLORAM,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49291	PICLORAM,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	49292	ORYZALIN,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49292	ORYZALIN,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	49293	NORFLURAZON,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49293	NORFLURAZON,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	49294	NEBURON,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49294	NEBURON,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	49295	NAPTHOL,1-,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49295	NAPTHOL,1-,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	49296	METHOMYL,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49296	METHOMYL,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	49297	FENURON,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49297	FENURON,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	49298	ESFENVALERATE,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49298	ESFENVALERATE,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	49299	CRESOL,O-,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49299	CRESOL,O-,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	49300	DIURON, RECV,FILTERED, WATER, GF, 0.7U UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49300	DIURON, RECV,FILTERED, WATER, GF, 0.7U UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	49301	DINOSEB, RECV, FILTERED, WATER, GF, 0.7U UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49301	DINOSEB, RECV, FILTERED, WATER, GF, 0.7U UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	49302	DICHLORPROP,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49302	DICHLORPROP,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	49303	DICHLOBENIL,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49303	DICHLOBENIL,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	49304	DACTHAL, RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49304	DACTHAL, RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	49305	CLOPYRALID,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49305	CLOPYRALID,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	49306	CHLOROTHALONIL,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49306	CHLOROTHALONIL,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	49307	AMIBEN, RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49307	AMIBEN, RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	49308	HYDROXYCARBOFURAN,3-,RECV,FILT,WATER,GF,0.7U UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49308	HYDROXYCARBOFURAN,3-,RECV,FILT,WATER,GF,0.7U UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	49309	CARBOFURAN,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49309	CARBOFURAN,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	49310	CARBARYL,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49310	CARBARYL,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	0	2	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0002	No	49311	BROMOXYNIL,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49311	BROMOXYNIL,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	49312	ALDICARB, RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49312	ALDICARB, RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	49313	ALDICARB SULFONE,RECV,FILTERED,GF,0.7U UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49313	ALDICARB SULFONE,RECV,FILTERED,GF,0.7U UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	49314	ALDICARB SULFOXIDE,RECV,FILTERED,GF,0.7U UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49314	ALDICARB SULFOXIDE,RECV,FILTERED,GF,0.7U UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	49315	ACIFLUORFEN,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	49315	ACIFLUORFEN,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	0	2	
BICA0097	No	50580	NIOBIUM, DISSOLVED UG/L	10/08/78-10/08/78	0	1	
BICA0104	No	50580	NIOBIUM, DISSOLVED UG/L	10/08/78-10/08/78	0	1	
BICA0105	No	50580	NIOBIUM, DISSOLVED UG/L	10/08/78-10/08/78	0	1	
BICA0107	No	50580	NIOBIUM, DISSOLVED UG/L	10/07/78-10/07/78	0	1	
BICA0116	No	50580	NIOBIUM, DISSOLVED UG/L	10/08/78-10/08/78	0	1	
BICA0117	No	50580	NIOBIUM, DISSOLVED UG/L	10/08/78-10/08/78	0	1	
BICA0125	No	50580	NIOBIUM, DISSOLVED UG/L	10/08/78-10/08/78	0	1	
BICA0126	No	50580	NIOBIUM, DISSOLVED UG/L	10/14/78-10/14/78	0	1	
BICA0130	No	50580	NIOBIUM, DISSOLVED UG/L	10/15/78-10/15/78	0	1	
BICA0131	No	50580	NIOBIUM, DISSOLVED UG/L	10/15/78-10/15/78	0	1	
BICA0133	No	50580	NIOBIUM, DISSOLVED UG/L	10/15/79-10/15/79	0	1	
BICA0137	No	50580	NIOBIUM, DISSOLVED UG/L	10/15/78-10/15/78	0	1	
BICA0138	No	50580	NIOBIUM, DISSOLVED UG/L	10/08/78-10/08/78	0	1	
BICA0144	No	50580	NIOBIUM, DISSOLVED UG/L	10/29/78-10/29/78	0	1	
BICA0146	No	50580	NIOBIUM, DISSOLVED UG/L	10/15/78-10/15/78	0	1	
BICA0147	No	50580	NIOBIUM, DISSOLVED UG/L	10/15/78-10/29/78	0	2	
BICA0150	No	50580	NIOBIUM, DISSOLVED UG/L	10/15/78-10/15/78	0	1	
BICA0157	No	50580	NIOBIUM, DISSOLVED UG/L	10/15/78-10/15/78	0	1	
BICA0160	No	50580	NIOBIUM, DISSOLVED UG/L	10/15/78-10/15/78	0	1	
BICA0161	Yes	50580	NIOBIUM, DISSOLVED UG/L	10/29/78-10/29/78	0	1	
BICA0166	No	50580	NIOBIUM, DISSOLVED UG/L	10/15/78-10/15/78	0	1	
BICA0167	No	50580	NIOBIUM, DISSOLVED UG/L	10/29/78-10/29/78	0	1	
BICA0168	No	50580	NIOBIUM, DISSOLVED UG/L	10/14/78-10/14/78	0	1	
BICA0171	No	50580	NIOBIUM, DISSOLVED UG/L	10/17/78-10/17/78	0	1	
BICA0185	No	50580	NIOBIUM, DISSOLVED UG/L	10/15/78-10/15/78	0	1	
BICA0187	No	50580	NIOBIUM, DISSOLVED UG/L	10/29/78-10/29/78	0	1	
BICA0188	No	50580	NIOBIUM, DISSOLVED UG/L	10/29/78-10/29/78	0	1	
BICA0193	No	50580	NIOBIUM, DISSOLVED UG/L	10/15/78-10/15/78	0	1	
BICA0194	No	50580	NIOBIUM, DISSOLVED UG/L	10/15/78-10/15/78	0	1	
BICA0197	No	50580	NIOBIUM, DISSOLVED UG/L	11/05/78-11/05/78	0	1	
BICA0198	No	50580	NIOBIUM, DISSOLVED UG/L	11/05/78-11/05/78	0	1	
BICA0201	No	50580	NIOBIUM, DISSOLVED UG/L	11/05/78-11/05/78	0	1	
BICA0202	No	50580	NIOBIUM, DISSOLVED UG/L	11/05/78-11/05/78	0	1	
BICA0203	No	50580	NIOBIUM, DISSOLVED UG/L	11/05/78-11/05/78	0	1	
BICA0204	No	50580	NIOBIUM, DISSOLVED UG/L	11/07/78-11/07/78	0	1	
BICA0205	No	50580	NIOBIUM, DISSOLVED UG/L	11/05/78-11/05/78	0	1	
BICA0206	No	50580	NIOBIUM, DISSOLVED UG/L	11/05/78-11/05/78	0	1	
BICA0001	No	70299	SOLIDS, SUSP. - RESIDUE ON EVAP. AT 180 C (MG/L)	02/26/73-12/11/74	1	10	
BICA0003	No	70299	SOLIDS, SUSP. - RESIDUE ON EVAP. AT 180 C (MG/L)	07/24/73-07/24/73	0	1	
BICA0001	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/26/73-12/11/74	1	10	
BICA0002	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	26	412	T,A,S
BICA0019	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/66-05/16/72	5	136	
BICA0026	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/20/58-09/16/68	10	162	
BICA0036	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/16/68-10/26/70	1	8	
BICA0057	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/15/56-07/15/56	0	1	
BICA0061	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/27/57-05/27/57	0	1	
BICA0139	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/11/77-07/06/77	0	4	
BICA0152	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/15/67-12/15/67	0	1	
BICA0153	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/15/67-12/15/67	0	1	
BICA0165	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/15/67-12/15/67	0	1	
BICA0169	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/29/68-06/16/69	0	3	
BICA0170	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/15/67-12/15/67	0	1	
BICA0180	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/66-12/01/70	4	71	
BICA0182	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/06/68-09/02/68	0	4	
BICA0186	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/11/77-07/06/77	0	4	
BICA0199	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/12/77-07/06/77	0	4	
BICA0209	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/12/77-07/14/77	0	4	
BICA0002	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-02/16/83	15	211	
BICA0019	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-03/21/83	15	248	
BICA0026	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/03/58-09/16/68	9	37	
BICA0067	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/05/74-05/05/74	0	1	
BICA0115	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/05/74-05/05/74	0	1	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0120	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/04/74-05/04/74	0	1	
BICA0123	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/05/74-05/05/74	0	1	
BICA0127	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/04/74-05/04/74	0	1	
BICA0134	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/04/74-05/04/74	0	1	
BICA0139	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/77-07/06/77	0	4	
BICA0152	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	12/15/67-04/08/70	2	2	
BICA0153	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	12/15/67-04/08/70	2	2	
BICA0158	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/08/70-04/08/70	0	1	
BICA0159	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/08/70-04/08/70	0	1	
BICA0162	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/08/70-04/08/70	0	1	
BICA0165	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	12/15/67-04/08/70	2	2	
BICA0169	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/29/68-06/16/69	0	3	
BICA0170	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	12/15/67-04/08/70	2	2	
BICA0180	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-08/25/81	13	195	
BICA0182	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	03/06/68-09/02/68	0	4	
BICA0186	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/77-07/06/77	0	4	
BICA0199	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	03/31/74-07/06/77	3	6	
BICA0207	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/19/73-11/19/73	0	1	
BICA0209	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/12/77-04/20/83	6	5	
BICA0210	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/16/76-09/16/76	0	1	
BICA0002	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	35	516	T,A,S
BICA0019	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-03/21/83	16	263	A
BICA0026	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/20/58-09/16/68	10	162	
BICA0180	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-08/25/81	14	220	
BICA0002	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	35	517	T,A,S
BICA0019	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-03/21/83	16	274	A
BICA0026	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/20/58-09/16/68	10	162	
BICA0180	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-08/25/81	14	220	
BICA0002	No	70326	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .002MM	10/07/49-07/23/51	1	15	
BICA0002	No	70327	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .004MM	10/07/49-07/23/51	1	18	
BICA0002	No	70328	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .008MM	10/07/49-07/23/51	1	19	
BICA0002	No	70329	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .016MM	10/07/49-07/23/51	1	19	
BICA0002	No	70330	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .031MM	10/07/49-07/23/51	1	18	
BICA0002	No	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/01/49-06/06/83	33	125	T,S
BICA0019	No	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	12/06/76-08/18/82	5	49	
BICA0026	No	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/01/59-09/12/61	1	22	
BICA0184	Yes	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	02/11/97-02/11/97	0	1	
BICA0190	Yes	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	02/10/97-02/10/97	0	1	
BICA0195	No	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	02/10/97-02/10/97	0	1	
BICA0002	No	70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	10/01/49-06/06/83	33	100	S
BICA0026	No	70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	10/01/59-09/12/61	1	22	
BICA0002	No	70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	10/01/49-09/19/61	11	96	
BICA0026	No	70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	10/01/59-09/12/61	1	21	
BICA0002	No	70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	10/01/49-09/19/61	11	85	
BICA0026	No	70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	10/01/59-05/19/61	1	13	
BICA0002	No	70335	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM	06/22/50-06/10/60	9	2	
BICA0026	No	70335	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM	11/05/59-11/30/59	0	2	
BICA0002	No	70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	10/01/49-06/12/91	41	29	S
BICA0026	No	70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	10/01/59-10/07/60	1	10	
BICA0002	No	70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/01/49-06/12/91	41	154	T,S
BICA0019	No	70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/07/71-04/09/80	8	13	
BICA0026	No	70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/01/59-07/02/64	4	25	
BICA0059	No	70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/22/70-06/10/77	6	17	
BICA0002	No	70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	10/01/49-06/12/91	41	36	S
BICA0002	No	70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/01/49-06/12/91	41	155	T,S
BICA0019	No	70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/07/71-04/09/80	8	13	
BICA0026	No	70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/01/59-07/02/64	4	25	
BICA0059	No	70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/22/70-06/10/77	6	17	
BICA0002	No	70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	10/01/49-06/12/91	41	29	
BICA0002	No	70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/01/59-06/12/91	31	69	S
BICA0019	No	70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/07/71-07/07/82	10	14	
BICA0026	No	70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/01/59-07/02/64	4	25	
BICA0059	No	70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	07/22/70-06/10/77	6	17	
BICA0002	No	70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/01/59-06/12/91	31	67	S
BICA0019	No	70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/07/71-07/07/82	10	11	
BICA0026	No	70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/01/59-07/02/64	4	25	
BICA0059	No	70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	03/09/71-06/10/77	6	13	
BICA0002	No	70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	10/01/59-06/12/91	31	66	S
BICA0019	No	70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	10/07/71-07/07/82	10	11	
BICA0026	No	70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	10/01/59-07/02/64	4	24	
BICA0059	No	70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	03/09/71-06/10/77	6	6	
BICA0002	No	70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	10/01/59-06/12/91	31	44	S

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0019	No	70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	10/07/71-07/07/82	10	8	
BICA0026	No	70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	10/01/59-07/02/64	4	15	
BICA0059	No	70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	07/28/73-07/28/73	0	1	
BICA0002	No	70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	06/10/60-05/02/78	17	5	
BICA0019	No	70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	07/07/82-07/07/82	0	1	
BICA0026	No	70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	11/05/59-11/30/59	0	2	
BICA0002	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/08/82-02/08/82	0	1	
BICA0026	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/10/82-02/10/82	0	1	
BICA0067	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/05/74-05/05/74	0	1	
BICA0115	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/05/74-05/05/74	0	1	
BICA0120	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/04/74-05/04/74	0	1	
BICA0123	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/05/74-05/05/74	0	1	
BICA0127	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/04/74-05/04/74	0	1	
BICA0134	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/04/74-05/04/74	0	1	
BICA0139	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/01/76-07/06/77	1	7	
BICA0180	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/04/71-03/02/72	1	20	
BICA0181	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/01/76-07/01/76	0	1	
BICA0186	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/01/76-07/06/77	1	7	
BICA0199	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/31/74-04/20/83	9	8	
BICA0207	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/19/73-11/19/73	0	1	
BICA0209	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/30/76-04/20/83	6	8	
BICA0002	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	11/20/80-01/05/81	0	3	
BICA0026	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	12/02/80-12/02/80	0	1	
BICA0001	No	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	02/26/73-12/05/73	0	5	
BICA0002	No	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	10/01/64-06/23/81	16	29	
BICA0026	No	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	10/01/64-09/21/65	0	27	
BICA0036	Yes	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	12/16/68-07/12/69	0	6	
BICA0002	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	12/01/49-09/22/61	11	70	
BICA0026	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	08/20/58-09/09/62	4	47	
BICA0001	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	02/26/73-12/11/74	1	9	
BICA0002	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	32	428	T,A,S
BICA0019	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/01/66-05/16/72	5	136	
BICA0026	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/30/59-09/16/68	8	148	
BICA0036	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	12/16/68-10/26/70	1	8	
BICA0152	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	12/15/67-04/08/70	2	2	
BICA0153	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	12/15/67-04/08/70	2	2	
BICA0158	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	04/08/70-04/08/70	0	1	
BICA0159	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	04/08/70-04/08/70	0	1	
BICA0162	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	04/08/70-04/08/70	0	1	
BICA0165	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	12/15/67-04/08/70	2	2	
BICA0169	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/29/68-06/16/69	0	3	
BICA0170	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	12/15/67-04/08/70	2	2	
BICA0180	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/01/66-12/01/70	4	72	
BICA0182	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/06/68-09/02/68	0	4	
BICA0002	No	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	10/01/64-09/19/65	0	27	
BICA0019	No	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	04/20/81-04/20/81	0	1	
BICA0026	No	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	10/01/64-09/21/65	0	25	
BICA0036	Yes	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	12/16/68-04/15/69	0	4	
BICA0180	Yes	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	07/23/69-06/02/70	0	6	
BICA0002	No	71870	BROMIDE (MG/L AS BR)	10/01/63-09/19/65	1	53	
BICA0026	No	71870	BROMIDE (MG/L AS BR)	11/04/63-09/21/65	1	38	
BICA0002	No	71885	IRON (UG/L AS FE)	12/18/60-05/04/67	6	135	
BICA0019	No	71885	IRON (UG/L AS FE)	10/05/66-07/03/67	0	4	
BICA0026	No	71885	IRON (UG/L AS FE)	11/30/59-07/03/67	7	88	
BICA0180	Yes	71885	IRON (UG/L AS FE)	04/21/67-09/14/67	0	2	
BICA0002	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	11/20/80-10/15/85	4	36	
BICA0019	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/18/79-08/14/85	6	37	
BICA0026	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	12/02/80-10/16/85	4	27	
BICA0002	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	11/20/80-08/13/85	4	26	
BICA0026	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	12/02/80-03/21/83	2	16	
BICA0001	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	02/26/73-12/05/73	0	5	
BICA0002	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	11/04/87-03/14/91	3	17	
BICA0019	No	71900	MERCURY, TOTAL (UG/L AS HG)	11/03/70-11/03/70	0	1	
BICA0067	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	05/05/74-05/05/74	0	1	
BICA0115	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	05/05/74-05/05/74	0	1	
BICA0120	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	05/04/74-05/04/74	0	1	
BICA0123	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	05/05/74-05/05/74	0	1	
BICA0127	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	05/04/74-05/04/74	0	1	
BICA0134	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	05/04/74-05/04/74	0	1	
BICA0139	No	71900	MERCURY, TOTAL (UG/L AS HG)	01/11/77-07/06/77	0	4	
BICA0186	No	71900	MERCURY, TOTAL (UG/L AS HG)	01/11/77-07/06/77	0	4	
BICA0199	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/31/74-07/06/77	3	6	

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

Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0209	No	71900	MERCURY, TOTAL (UG/L AS HG)	01/12/77-07/14/77	0	4	
BICA0002	No	72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	10/01/49-09/22/61	11	218	
BICA0026	No	72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	08/20/58-09/09/62	4	69	
BICA0034	Yes	72025	DEPTH OF POND OR RESERVOIR IN FEET	05/21/75-10/17/75	0	3	
BICA0049	Yes	72025	DEPTH OF POND OR RESERVOIR IN FEET	05/22/75-10/17/75	0	3	
BICA0069	Yes	72025	DEPTH OF POND OR RESERVOIR IN FEET	05/22/75-10/17/75	0	3	
BICA0084	Yes	72025	DEPTH OF POND OR RESERVOIR IN FEET	05/22/75-10/17/75	0	3	
BICA0128	Yes	72025	DEPTH OF POND OR RESERVOIR IN FEET	05/22/75-10/17/75	0	3	
BICA0140	Yes	72025	DEPTH OF POND OR RESERVOIR IN FEET	05/22/75-10/17/75	0	3	
BICA0172	Yes	72025	DEPTH OF POND OR RESERVOIR IN FEET	05/22/75-10/17/75	0	3	
BICA0006	No	74010	IRON, TOTAL (MG/L AS FE)	02/22/68-08/18/69	1	38	
BICA0029	Yes	74010	IRON, TOTAL (MG/L AS FE)	02/22/68-08/18/69	1	43	
BICA0039	Yes	74010	IRON, TOTAL (MG/L AS FE)	05/05/69-08/11/69	0	13	
BICA0066	Yes	74010	IRON, TOTAL (MG/L AS FE)	05/05/69-08/11/69	0	13	
BICA0075	Yes	74010	IRON, TOTAL (MG/L AS FE)	05/05/69-08/11/69	0	13	
BICA0099	Yes	74010	IRON, TOTAL (MG/L AS FE)	05/05/69-08/11/69	0	13	
BICA0132	Yes	74010	IRON, TOTAL (MG/L AS FE)	05/05/69-08/11/69	0	13	
BICA0174	Yes	74010	IRON, TOTAL (MG/L AS FE)	05/05/69-08/11/69	0	13	
BICA0177	Yes	74010	IRON, TOTAL (MG/L AS FE)	02/22/68-08/18/69	1	45	
BICA0002	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/49-09/18/92	42	327	T,A,S
BICA0019	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/07/71-08/31/92	20	134	T
BICA0026	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/59-07/02/64	4	25	
BICA0059	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/22/70-06/10/77	6	17	
BICA0184	Yes	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	02/11/97-02/11/97	0	1	
BICA0190	Yes	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	02/10/97-02/10/97	0	1	
BICA0195	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	02/10/97-02/10/97	0	1	
BICA0002	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/59-02/26/86	26	133	T,S
BICA0019	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/07/71-08/18/82	10	123	
BICA0026	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/59-07/02/64	4	25	
BICA0059	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	07/22/70-06/10/77	6	17	
BICA0002	No	80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	09/29/70-03/08/77	6	18	
BICA0002	No	80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	09/29/70-03/08/77	6	18	
BICA0002	No	80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	09/29/70-03/08/77	6	18	
BICA0002	No	80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	09/29/70-03/08/77	6	18	
BICA0002	No	80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	09/29/70-03/08/77	6	18	
BICA0002	No	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	09/29/70-03/08/77	6	17	
BICA0002	No	80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	09/29/70-03/08/77	6	17	
BICA0002	No	80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	09/29/70-03/08/77	6	17	
BICA0002	No	80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	09/29/70-03/08/77	6	15	
BICA0002	No	80173	BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM	04/13/71-08/11/76	5	11	
BICA0002	No	80174	BED MATERIAL SIEVE DIAMETER,% FINER THAN 64.0MM	08/11/76-08/11/76	0	1	
BICA0002	No	81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	10/24/79-09/04/80	0	3	
BICA0026	No	81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	10/24/79-09/04/80	0	3	
BICA0002	No	82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	06/20/84-08/31/92	8	34	
BICA0019	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	10/07/80-07/15/81	0	10	
BICA0180	Yes	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	10/28/80-06/15/81	0	10	
BICA0010	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	06/09/80-11/26/80	0	8	
BICA0023	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	06/09/80-11/26/80	0	9	
BICA0050	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	06/09/80-11/26/80	0	8	
BICA0074	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/09/80-11/26/80	0	6	
BICA0002	No	82183	2,4-DP (DICHLORPROP) TOTAL UG/L	10/24/79-08/31/92	12	36	
BICA0026	No	82183	2,4-DP (DICHLORPROP) TOTAL UG/L	10/24/79-09/04/80	0	3	
BICA0097	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/08/78-10/08/78	0	1	
BICA0104	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/08/78-10/08/78	0	1	
BICA0105	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/08/78-10/08/78	0	1	
BICA0107	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/07/78-10/07/78	0	1	
BICA0116	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/08/78-10/08/78	0	1	
BICA0117	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/08/78-10/08/78	0	1	
BICA0125	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/08/78-10/08/78	0	1	
BICA0126	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/14/78-10/14/78	0	1	
BICA0130	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/15/78-10/15/78	0	1	
BICA0131	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/15/78-10/15/78	0	1	
BICA0133	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/15/79-10/15/79	0	1	
BICA0137	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/15/78-10/15/78	0	1	
BICA0138	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/08/78-10/08/78	0	1	
BICA0144	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/29/78-10/29/78	0	1	
BICA0146	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/15/78-10/15/78	0	1	
BICA0147	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/15/78-10/29/78	0	2	
BICA0150	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/15/78-10/15/78	0	1	
BICA0157	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/15/78-10/15/78	0	1	
BICA0160	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/15/78-10/15/78	0	1	
BICA0161	Yes	82365	THORIUM, DISSOLVED IN WATER UG/L	10/29/78-10/29/78	0	1	

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Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0166	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/15/78-10/15/78	0	1	
BICA0167	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/29/78-10/29/78	0	1	
BICA0168	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/14/78-10/14/78	0	1	
BICA0171	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/17/78-10/17/78	0	1	
BICA0185	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/15/78-10/15/78	0	1	
BICA0187	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/29/78-10/29/78	0	1	
BICA0188	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/29/78-10/29/78	0	1	
BICA0193	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/15/78-10/15/78	0	1	
BICA0194	No	82365	THORIUM, DISSOLVED IN WATER UG/L	10/15/78-10/15/78	0	1	
BICA0197	No	82365	THORIUM, DISSOLVED IN WATER UG/L	11/05/78-11/05/78	0	1	
BICA0198	No	82365	THORIUM, DISSOLVED IN WATER UG/L	11/05/78-11/05/78	0	1	
BICA0201	No	82365	THORIUM, DISSOLVED IN WATER UG/L	11/05/78-11/05/78	0	1	
BICA0202	No	82365	THORIUM, DISSOLVED IN WATER UG/L	11/05/78-11/05/78	0	1	
BICA0203	No	82365	THORIUM, DISSOLVED IN WATER UG/L	11/05/78-11/05/78	0	1	
BICA0204	No	82365	THORIUM, DISSOLVED IN WATER UG/L	11/07/78-11/07/78	0	1	
BICA0205	No	82365	THORIUM, DISSOLVED IN WATER UG/L	11/05/78-11/05/78	0	1	
BICA0206	No	82365	THORIUM, DISSOLVED IN WATER UG/L	11/05/78-11/05/78	0	1	
BICA0002	No	82398	SAMPLING METHOD (CODES)	11/15/83-04/14/97	13	95	
BICA0019	No	82398	SAMPLING METHOD (CODES)	02/16/84-04/14/97	13	43	
BICA0026	No	82398	SAMPLING METHOD (CODES)	11/15/83-08/23/89	5	21	
BICA0002	No	82630	METRIBUZIN (SENCOR), WATER, DISSOLVED UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82630	METRIBUZIN (SENCOR), WATER, DISSOLVED UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	82660	DIETHYLANILINE, 2, 6-,0.7UM FILT,TOT RECV,WTR UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82660	DIETHYLANILINE, 2, 6-,0.7UM FILT,TOT RECV,WTR UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	82661	TRIFLURALINE, 0.7UM FILT,TOT RECV, WATER UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82661	TRIFLURALINE, 0.7UM FILT,TOT RECV, WATER UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	82663	ETHALFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82663	ETHALFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	82664	PHORATE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82664	PHORATE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	82665	TERBACIL, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82665	TERBACIL, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	82666	LINURON, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82666	LINURON, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	82667	METHYL PARATHION,0.7 UM FILT,TOT RECV,WATER UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82667	METHYL PARATHION,0.7 UM FILT,TOT RECV,WATER UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	82668	EPTC, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82668	EPTC, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	82669	PEBULATE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82669	PEBULATE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	82670	TEBUTHIURON, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82670	TEBUTHIURON, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	82671	MOLINATE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82671	MOLINATE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	82672	ETHOPROP, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82672	ETHOPROP, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	82673	BENFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82673	BENFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	82674	CARBOFURAN, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82674	CARBOFURAN, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	82675	TERBUFOS, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82675	TERBUFOS, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	82676	PRONAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82676	PRONAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	82677	DISULFOTON, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82677	DISULFOTON, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	82678	TRIALLATE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82678	TRIALLATE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	82679	PROPANIL, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82679	PROPANIL, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	82680	CARBARYL, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82680	CARBARYL, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	82681	THIOBENCARB, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82681	THIOBENCARB, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	82682	DCPA, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82682	DCPA, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	82683	PENDIMETHALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82683	PENDIMETHALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	82684	NAPROPAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82684	NAPROPAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	82685	PROPARGITE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82685	PROPARGITE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	0	2	

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Station/Parameter Period of Record Tabulation
From 01/01/01 To 04/14/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BICA0002	No	82686	METHYL AZINPHOS, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82686	METHYL AZINPHOS, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	0	2	
BICA0002	No	82687	PERMETHRIN, CIS, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	0	2	
BICA0019	No	82687	PERMETHRIN, CIS, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	0	2	
BICA0024	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	09/17/76-09/17/76	0	1	
BICA0064	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/26/88-07/26/88	0	1	
BICA0190	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	02/10/97-02/10/97	0	1	
BICA0024	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	09/17/76-09/17/76	0	1	
BICA0064	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/26/88-07/26/88	0	1	
BICA0190	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	02/10/97-02/10/97	0	1	
BICA0073	Yes	85334	TEMPERATURE-DEG F, MINIMUM WATER	04/04/86-09/30/87	1	430	
BICA0073	Yes	85335	TEMPERATURE- DEG F , MAXIMUM WATER	04/04/86-09/29/87	1	429	

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

Station-By-Station Results

Station Inventory for Station: BICA0001

NPS Station ID: BICA0001
LAT/LON: 44.750005/-108.183337
Agency: 11NPSWRD
Date Created: 11/01/97
Location: BIGHORN RIVER SOUTH OF KANE WY
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_WRDS_3 /82100102:1
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 3675
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
The Wyoming Game and Fish Department collected the data stored at this station. The Wyoming Water Resources Center entered these data into the Wyoming Water Resources Data System (WRDS) which is a clearinghouse of hydrological and climatological data for the State of Wyoming. WRDS can be accessed on-line at: WWW-WWRC.UWYO.EDU/WRDS. WRDS staff can be contacted at PO Box 3067 Laramie WY 82071-3067; Tel. 307-766-6651; Fax. 307-766-3785; E-Mail: WRDS@UWYO.EDU. This was one of 9 stations for Bighorn Canyon NRA that were uploaded to STORET from the WRDS. These data are locked in STORET (can't be accessed without the NPS Unlocking Key) so the Wyoming Water Resources Center doesn't provide duplicative data to its clients (from STORET & WRDS). The station is located on the Kane WY 7.5' USGS topographic quadrangle. The data were uploaded to STORET by Dean Tucker; National Park Service Water Resources Division; 1201 Oak Ridge Drive Suite 250; Fort Collins CO 80525 (tel. 970-225-3516).

Parameter Inventory for Station: BICA0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/26/73-11/07/74	9	13.	13.222	26.	1.	77.694	8.814	1.	5.	21.	26.
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/17/73-09/20/73	3	2120.	2900.	5410.	1170.	4950700.	2225.017	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	02/26/73-12/11/74	11	9.5	9.745	12.5	7.7	1.945	1.395	7.86	8.7	10.8	12.3
00400	PH (STANDARD UNITS)	02/26/73-12/11/74	11	8.3	8.309	8.6	7.8	0.043	0.207	7.88	8.2	8.4	8.58
00400	CONVERTED PH (STANDARD UNITS)	02/26/73-12/11/74	11	8.3	8.255	8.6	7.8	0.046	0.215	7.88	8.2	8.4	8.58
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/26/73-12/11/74	11	0.005	0.006	0.016	0.003	0.	0.004	0.003	0.004	0.006	0.014
00411	ALKALINITY,METHYLORANGE MG/L	02/26/73-12/11/74	11	185.	190.818	290.	131.	1952.964	44.192	134.6	150.	212.	276.8
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/26/73-12/11/74	11	12.	14.364	28.	0.	66.055	8.127	1.6	10.	22.	27.2
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	12/05/73-12/11/74	5	0.06	0.062	0.1	0.02	0.001	0.03	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/26/73-04/19/74	4	0.045	0.053	0.1	0.02	0.001	0.034	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/26/73-12/11/74	9	72.	73.811	86.4	59.5	70.721	8.41	59.5	68.8	81.6	86.4
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/26/73-12/11/74	9	26.2	24.422	31.5	13.1	32.029	5.659	13.1	20.7	28.1	31.5
00930	SODIUM, DISSOLVED (MG/L AS NA)	02/26/73-12/11/74	9	77.	80.378	104.	58.	207.684	14.411	58.	72.2	93.	104.
00931	SODIUM ADSORPTION RATIO	02/26/73-12/11/74	9	1.9	2.067	2.8	1.6	0.125	0.354	1.6	1.9	2.3	2.8
00932	SODIUM, PERCENT	02/26/73-12/11/74	9	37.	37.778	46.	33.	14.694	3.833	33.	35.5	40.	46.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/26/73-12/11/74	9	4.24	4.076	4.8	3.4	0.297	0.545	3.4	3.42	4.54	4.8
00940	CHLORIDE,TOTAL IN WATER MG/L	02/26/73-12/11/74	10	14.5	14.5	20.	10.	7.833	2.799	10.2	12.75	16.25	19.7
00945	SULFATE, TOTAL (MG/L AS SO4)	02/26/73-12/11/74	9	297.	287.444	346.	237.	1688.278	41.089	237.	247.	321.	346.
00955	SILICA, DISSOLVED (MG/L AS SI02)	02/26/73-12/05/73	5	1.	1.	1.	1.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: BICA0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01000	ARSENIC, DISSOLVED (UG/L AS AS)	02/26/73-12/05/73	5	4.	3.8	5.	2.	1.2	1.095	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	02/26/73-12/05/73	5	235.	204.	245.	150.	2442.5	49.422	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	02/26/73-12/05/73	5	2.	1.2	2.	0.	1.2	1.095	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	02/26/73-12/05/73	5	0.03	3.208	8.	0.	19.136	4.374	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	02/26/73-12/05/73	5	0.7	0.62	0.7	0.5	0.012	0.11	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	02/26/73-12/05/73	5 ##	0.	2.8	8.	0.	15.2	3.899	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	02/26/73-12/05/73	5	18.	17.2	32.	6.	113.2	10.64	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	02/26/73-12/05/73	5	6.	6.	9.	2.	6.5	2.55	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	02/26/73-12/05/73	5	3.	2.7	3.	1.5	0.45	0.671	**	**	**	**
70299	SOLIDS, SUSP. - RESIDUE ON EVAP. AT 180 C (MG/L)	02/26/73-12/11/74	10	188.5	286.9	759.	54.	51258.544	226.403	57.5	103.25	446.	728.3
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/26/73-12/11/74	10	667.5	651.2	731.	569.	3816.4	61.777	569.4	582.	711.25	729.1
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	02/26/73-12/05/73	5	0.09	0.088	0.11	0.05	0.001	0.025	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	02/26/73-12/11/74	9	0.1	0.138	0.2	0.04	0.004	0.062	0.04	0.1	0.2	0.2
71890	MERCURY, DISSOLVED (UG/L AS HG)	02/26/73-12/05/73	5	1.2	2.528	6.2	0.04	8.242	2.871	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0001

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	11	0	0.00	7	0	0.00	2	0	0.00	2	0	0.00			
00400	PH	Fresh Chronic	9.	11	0	0.00	7	0	0.00	2	0	0.00	2	0	0.00			
		Other-Lo Lim.	6.5	11	0	0.00	7	0	0.00	2	0	0.00	2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	10	0	0.00	6	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	250.	10	0	0.00	6	0	0.00	2	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	9	7	0.78	6	5	0.83	1	1	1.00	2	1	0.50			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	5	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	50.	5	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	5	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	1300.	5	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	5	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	15.	5	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	5	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5000.	5	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	5	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	50.	5	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	5	2	0.40	3	2	0.67	1	0	0.00	1	0	0.00			
		Drinking Water	2.	5	2	0.40	3	2	0.67	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: BICA0002

NPS Station ID: BICA0002
LAT/LON: 44.758615/-108.180838
Agency: 112WRD
Date Created: / /
Location: BIGHORN R AT KANE WYO
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 06279500
RMI-Indexes: 1021500 009490 36810 4430
Within Park Boundary: No
RMI-Miles: 1149.40 1582.00 279.40 150.00
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10080010005400.00
RF3 Mile Point: 0.33
Distance from RF3: 0.11
On/Off RF3:
Description:
NW1/4NE1/4 SEC 9 T55N R94W 1.3 MILES UPSTREAM FR FIVE SPRINGS CR AND 61/2 MILES SOUTH OF KANE WYO
4445000 10812000

Parameter Inventory for Station: BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	424	12.	11.207	26.5	0.	59.019	7.682	0.	4.5	17.5	21.05
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/02/75-04/14/97	164	16.6	15.141	42.	-18.	132.471	11.51	5.	7.375	24.5	31.75
00025	BAROMETRIC PRESSURE (MM OF HG)	02/16/84-04/14/97	31	668.	672.097	760.	644.	359.69	18.966	660.	662.	678.	684.8
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	490	2010.	2602.167	20200.	370.	5307724.88	2303.85	888.1	1372.25	2773.25	5035.1
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/49-04/14/97	413	1910.	2749.291	20700.	598.	6508693.93	2551.214	905.4	1355.	2880.	5870.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/10/73-07/29/80	78	30.	196.494	3900.	1.	273532.834	523.004	2.	6.	100.	650.
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	11/19/69-06/30/70	3	27.	120.	315.	18.	28539.	168.935	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/04/80-12/17/80	3	280.	940.	2400.	140.	1603600.	1266.333	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	11/01/56-11/19/69	146	5.	5.322	18.	0.	6.413	2.532	3.	4.	6.	8.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	664	950.	949.547	3030.	355.	58192.022	241.23	610.5	814.25	1100.	1210.
00300p	OXYGEN, DISSOLVED MG/L	08/29/69-04/14/97	122	9.85	9.916	14.	6.6	2.659	1.631	7.8	8.6	11.2	12.
00310	BOD, 5 DAY, 20 DEG C MG/L	11/19/69-10/31/73	6	2.05	2.267	4.4	1.1	1.435	1.198	**	**	**	**
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	514	7.8	7.86	9.7	6.8	0.126	0.355	7.4	7.6	8.1	8.3
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	514	7.8	7.719	9.7	6.8	0.146	0.382	7.4	7.6	8.1	8.3
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	514	0.016	0.019	0.158	0.	0.	0.018	0.005	0.008	0.025	0.04
00403	PH, LAB, STANDARD UNITS SU	10/17/80-03/14/91	70	8.1	8.071	8.7	7.4	0.057	0.24	7.71	7.9	8.225	8.4
00403	CONVERTED PH, LAB, STANDARD UNITS	10/17/80-03/14/91	70	8.1	8.005	8.7	7.4	0.062	0.249	7.71	7.9	8.225	8.4
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/17/80-03/14/91	70	0.008	0.01	0.04	0.002	0.	0.006	0.004	0.006	0.013	0.02
00405	CARBON DIOXIDE (MG/L AS CO2)	11/30/71-10/07/81	78	2.1	2.9	10.	0.1	4.68	2.163	1.	1.5	3.5	7.21
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/47-09/04/80	330	167.	164.991	250.	82.	887.632	29.793	124.1	150.	183.25	200.
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	481	205.	202.233	303.	100.	1250.258	35.359	153.	183.	226.	240.
00445p	CARBONATE ION (MG/L AS CO3)	10/03/50-12/17/81	406	0.	0.266	18.	0.	2.566	1.602	0.	0.	0.	0.
00600	NITROGEN, TOTAL (MG/L AS N)	11/20/80-08/13/85	26	1.05	2.024	15.	0.63	8.657	2.942	0.682	0.815	1.625	4.67
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	11/20/80-08/13/85	22	0.75	1.708	14.	0.3	9.044	3.007	0.404	0.528	1.11	5.05
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	03/03/70-06/23/81	3	0.02	0.073	0.2	0.	0.012	0.11	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/20/80-07/28/89	58	0.07	0.12	1.8	0.005	0.059	0.244	0.02	0.03	0.12	0.163
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	02/08/82-02/08/82	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/30/71-08/23/79	85	0.32	0.432	2.5	0.	0.18	0.424	0.102	0.18	0.54	0.798
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/20/80-07/28/89	59	0.7	1.579	19.	0.2	9.185	3.031	0.4	0.6	1.1	3.4
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/20/80-07/28/89	58	0.3	0.423	1.5	0.1	0.096	0.31	0.139	0.2	0.593	0.91
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/04/79-06/06/86	70	0.3	0.46	2.4	0.	0.185	0.43	0.2	0.2	0.5	0.88
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/19/69-11/19/69	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/19/69-07/28/89	158	0.075	0.253	9.5	0.	0.884	0.94	0.01	0.03	0.15	0.371

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

Parameter Inventory for Station: BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	11/19/69-06/30/70	3	0.01	0.01	0.02	0.	0.	0.01	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	503	310.	313.509	1450.	119.	7986.43	89.367	202.2	270.	356.	402.4
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	480	141.	148.231	1280.	16.	5078.295	71.262	82.1	117.25	173.75	210.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	544	81.	82.017	482.	3.	700.705	26.471	55.5	70.	92.	103.5
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	544	27.	26.265	60.	0.2	65.992	8.124	15.	22.	31.	36.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	527	89.	91.198	281.	5.8	867.919	29.46	54.	75.	108.	127.
00931p	SODIUM ADSORPTION RATIO	03/11/53-02/16/83	463	2.2	2.212	5.2	0.1	0.281	0.53	1.6	1.9	2.5	2.9
00932p	SODIUM, PERCENT	12/01/49-02/16/83	347	38.	37.755	61.	4.	21.775	4.666	34.	36.	40.	42.
00933	SODIUM,PLUS POTASSIUM (MG/L)	12/01/49-06/02/51	19	99.	92.632	156.	30.	917.801	30.295	36.	77.	112.	120.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/11/53-06/06/86	474	3.7	3.86	13.	0.3	1.435	1.198	2.6	3.2	4.4	5.05
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	524	15.	14.735	40.	1.	31.262	5.591	7.	11.	18.	21.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	525	308.	312.074	1770.	85.	13420.286	115.846	175.2	256.	362.5	441.4
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	497	0.4	0.465	2.5	0.1	0.036	0.189	0.3	0.4	0.5	0.62
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	508	10.	10.491	35.	0.05	9.7	3.115	7.6	9.	11.	14.
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/01/70-03/14/91	24	1.	3.979	60.	0.	144.967	12.04	0.25	0.5	2.	6.
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/01/70-03/14/91	20	54.5	55.45	68.	39.	53.418	7.309	45.5	50.25	59.75	66.
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/01/70-03/14/91	19 ##	0.25	0.329	1.5	0.	0.16	0.4	0.	0.	0.25	1.
01015	BISMUTH, DISSOLVED (UG/L AS BI)	10/01/70-04/13/71	3 ##	6.	5.833	7.5	4.	3.083	1.756	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	366	110.	114.836	370.	0.	2141.754	46.279	60.	90.	140.	170.
01022	BORON, TOTAL (UG/L AS B)	06/27/50-06/27/50	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/01/70-03/14/91	23 ##	0.5	0.783	3.	0.	0.678	0.823	0.	0.5	1.	2.6
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/01/70-03/14/91	25 ##	2.5	2.44	7.5	0.	2.569	1.603	0.5	1.5	2.5	4.8
01035	COBALT, DISSOLVED (UG/L AS CO)	10/01/70-03/14/91	14 ##	1.5	1.964	4.5	1.5	1.018	1.009	1.5	1.5	1.75	4.25
01040	COPPER, DISSOLVED (UG/L AS CU)	10/01/70-03/14/91	25	5.	4.44	9.	1.	2.09	1.446	2.6	4.	5.	5.
01045	IRON, TOTAL (UG/L AS FE)	03/26/47-09/15/71	95	10.	28.284	220.	0.	1882.227	43.385	0.	0.	40.	72.
01046	IRON, DISSOLVED (UG/L AS FE)	01/26/71-03/14/91	44	65.	83.318	400.	0.	6996.92	83.648	8.5	20.25	107.5	210.
01049	LEAD, DISSOLVED (UG/L AS PB)	10/01/70-03/14/91	25 ##	5.	3.86	10.	0.5	5.74	2.396	0.5	1.5	5.	6.6
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/01/70-03/14/91	24	9.	10.833	30.	0.	75.797	8.706	1.	5.	17.5	27.5
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/01/70-08/30/89	17 ##	5.	4.029	10.	0.	5.827	2.414	0.	2.25	5.	6.
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/01/70-08/30/89	16 ##	5.	5.469	12.	1.	9.982	3.159	1.	5.	6.875	10.6
01075	SILVER, DISSOLVED (UG/L AS AG)	10/01/70-03/14/91	23 ##	0.5	0.75	3.	0.	0.483	0.695	0.1	0.5	1.	2.
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/01/70-03/14/91	14	935.	920.714	1200.	490.	43191.758	207.826	570.	802.5	1050.	1200.
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/01/70-08/30/89	13 ##	3.	3.538	7.5	2.5	2.144	1.464	2.7	3.	3.	6.9
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/01/70-03/14/91	22	19.5	22.455	130.	4.	672.831	25.939	7.	7.75	24.75	38.2
01100	TIN, DISSOLVED (UG/L AS SN)	10/01/70-04/13/71	3 ##	6.	5.833	7.5	4.	3.083	1.756	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/01/70-03/14/91	11	20.	56.909	370.	10.	11067.491	105.202	12.	20.	32.	310.8
01120	GALLIUM, DISSOLVED (UG/L AS GA)	10/01/70-04/13/71	3 ##	2.5	2.833	6.	0.	9.083	3.014	**	**	**	**
01125	GERMANIUM, DISSOLVED (UG/L AS GE)	10/01/70-04/13/71	3 ##	6.	6.167	7.5	5.	1.583	1.258	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/01/70-03/14/91	14	46.5	44.071	72.	19.	226.225	15.041	21.	34.25	50.5	69.5
01135	RUBIDIUM, DISSOLVED (UG/L AS RB)	10/01/70-04/13/71	3	2.5	2.833	4.	2.	1.083	1.041	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	11/04/87-03/14/91	19	2.	2.026	3.	0.5	0.569	0.754	1.	2.	3.	3.
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/01/70-04/13/71	3 ##	6.	5.833	7.	4.5	1.583	1.258	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/01/70-04/13/71	3 ##	6.	6.167	12.5	0.	39.083	6.252	**	**	**	**
04024	PROPACHLOR,DISSOLVED,WATER,TOTAL RECOVERABLE UG/L	03/26/96-07/30/96	2 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
04028	BUTYLATE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/26/96-07/30/96	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
04029	BROMACIL, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/26/96-07/30/96	2 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
04035	SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/26/96-07/30/96	2 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
04037	PROMETON, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/26/96-07/30/96	1 ##	0.009	0.009	0.009	0.009	0.	0.	**	**	**	**
04041	CYANAZINE,DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/26/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
04091	CLOPYRALID, TOTAL RECOVERABLE, WATER UG/L	08/08/91-08/31/92	2 ##	0.018	0.018	0.03	0.005	0.	0.018	**	**	**	**
04095	FONOFOS, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/26/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	08/29/69-10/31/73	11	1400.	1957.727	6900.	258.	4190497.618	2047.07	268.8	475.	2900.	6320.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	08/29/69-10/31/73	11	3.146	3.067	3.839	2.412	0.23	0.48	2.428	2.677	3.462	3.791
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			1167.366								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/19/72-09/04/76	38	110.	963.474	31000.	4.	25065255.067	5006.521	18.4	50.75	210.	432.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/19/72-09/04/76	38	2.041	2.011	4.491	0.602	0.425	0.652	1.262	1.697	2.321	2.634
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			102.601								
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	10/03/76-07/28/89	84	148.5	454.089	13300.	0.	2383663.091	1543.912	24.	76.25	270.	585.
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	10/03/76-07/28/89	84	2.172	2.12	4.124	-0.301	0.477	0.691	1.38	1.882	2.431	2.767
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			131.876								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	11/01/65-09/21/66	30	7350.	6093.333	8100.	3000.	4190988.506	2047.19	3000.	3750.	7725.	8000.
34253	A-BHC-ALPHA DISSUG/L	03/26/96-07/30/96	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
34609	2,4-DIMETHYLPHENOL DRY WGTBOTUG/KG	10/24/79-09/04/80	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 time series plot

Parameter Inventory for Station: BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34653	P,P'-DDE DISSUG/L	03/26/96-07/30/96	2 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
38442	DICAMBA (BANVEL) WATER,DISSUG/L	03/26/96-07/30/96	2 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
38478	LINURON WATER,DISSUG/L	03/26/96-07/30/96	2 ##	0.009	0.009	0.009	0.009	0.	0.	**	**	**	**
38482	MCPA WATER,DISSUG/L	03/26/96-07/30/96	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
38487	MCPB WATER,DISSUG/L	03/26/96-07/30/96	2 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
38501	METHIOCARB WATER,DISSUG/L	03/26/96-07/30/96	2 ##	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
38538	PROPOXUR WATER,DISSUG/L	03/26/96-07/30/96	2 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
38711	BENTAZON WATER, DISUG/L	03/26/96-07/30/96	2 ##	0.007	0.007	0.007	0.007	0.	0.	**	**	**	**
38746	2,4-DB WATER, DISUG/L	03/26/96-07/30/96	2 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
38811	FLUOMETURON WATER, DISUG/L	03/26/96-07/30/96	2 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
38866	OXAMYL WATER, DISUG/L	03/26/96-07/30/96	2 ##	0.009	0.009	0.009	0.009	0.	0.	**	**	**	**
38933	CHLORPYRIFOS,DISSOLVED UG/L	03/26/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	10/25/78-09/04/80	5	0.	0.	0.	0.	0.	0.	**	**	**	**
39250	NAPTHALENES, POLYCHLORINATED (UG/L)	09/23/76-09/04/80	6	0.	0.	0.	0.	0.	0.	**	**	**	**
39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	10/24/79-09/04/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	09/07/71-08/01/73	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39332	ALDRIN IN SUSP. FRAC. OF WAT. SAMP. (UG/L)	09/07/71-08/01/73	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/07/71-09/04/80	15	0.	0.053	0.4	0.	0.011	0.106	0.	0.	0.1	0.22
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	09/07/71-09/04/80	17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	09/07/71-07/30/96	11	0.	0.	0.002	0.	0.	0.001	0.	0.	0.	0.002
39342	GAMMA-BHC(LINDANE),SUSPENDED,UG/L	09/07/71-08/01/73	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	09/07/71-09/04/80	15	0.	0.033	0.1	0.	0.002	0.049	0.	0.	0.1	0.1
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	09/07/71-09/04/80	17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	09/07/71-09/04/80	15	0.	0.2	1.	0.	0.1	0.316	0.	0.	0.5	0.7
39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	09/07/71-08/01/73	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39353	CHLORDANE(TECH MIX & METABS),SUSPENDED,UG/L	09/07/71-08/01/73	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	09/07/71-08/01/73	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39362	DDD IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/07/71-09/04/80	15	0.	0.047	0.1	0.	0.003	0.052	0.	0.	0.1	0.1
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	17	0.	0.001	0.01	0.	0.	0.002	0.	0.	0.	0.002
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39367	DDE IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	9	0.	0.001	0.01	0.	0.	0.003	0.	0.	0.	0.01
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/07/71-09/04/80	15	0.1	0.06	0.2	0.	0.004	0.063	0.	0.	0.1	0.14
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39372	DDT IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/07/71-09/04/80	15	0.	0.04	0.2	0.	0.004	0.063	0.	0.	0.1	0.14
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	17	0.	0.001	0.01	0.	0.	0.003	0.	0.	0.	0.01
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-07/30/96	11	0.	0.002	0.01	0.	0.	0.004	0.	0.	0.001	0.01
39382	DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	09/07/71-09/04/80	15	0.2	1.493	8.	0.	8.236	2.87	0.	0.1	0.4	8.
39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	10/19/77-09/04/80	7	0.	0.	0.	0.	0.	0.	**	**	**	**
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/24/79-09/04/80	3	0.	0.	0.	0.	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39392	ENDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/07/71-09/04/80	15	0.	0.033	0.1	0.	0.002	0.049	0.	0.	0.1	0.1
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	8	0.	0.	0.	0.	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	8	0.	0.	0.	0.	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	09/23/76-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39412	HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	09/07/71-09/04/80	15	0.	0.027	0.1	0.	0.002	0.046	0.	0.	0.1	0.1
39415	METOLACHLOR, WATER, DISSOLVED UG/L	03/26/96-07/30/96	2 ##	0.003	0.003	0.005	0.001	0.	0.003	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	09/07/71-08/01/73	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39422	HEPTACHLOR EPOXIDE IN SUSP. FRAC. WAT SAMP (UG/L)	09/07/71-08/01/73	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	09/07/71-09/04/80	15	0.	0.033	0.1	0.	0.002	0.049	0.	0.	0.1	0.1
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	10/24/79-09/04/80	3	0.	0.	0.	0.	0.	0.	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	10/24/79-09/04/80	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 time series plot

Parameter Inventory for Station: BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39518	PCBS IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	09/07/71-09/04/80	15	0.	0.533	2.	0.	0.41	0.64	0.	0.	1.	1.4
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	15	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39532	MALATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-07/30/96	11	0.	0.	0.003	0.	0.	0.001	0.	0.	0.	0.003
39533	MALATHION IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	7	0.	0.	0.	0.	0.	0.	**	**	**	**
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	15	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-07/30/96	11	0.	0.	0.002	0.	0.	0.001	0.	0.	0.	0.002
39543	PARATHION IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	7	0.	0.	0.	0.	0.	0.	**	**	**	**
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	15	0.	0.013	0.11	0.	0.001	0.028	0.	0.	0.02	0.056
39572	DIAZINON IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-07/30/96	11	0.01	0.008	0.02	0.	0.	0.009	0.	0.	0.02	0.02
39573	DIAZINON IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	7	0.	0.001	0.01	0.	0.	0.004	**	**	**	**
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	15	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39602	METHYL PARATHION IN FILT. FRAC. WATER SAMP.(UG/L)	09/07/71-08/01/73	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39603	METHYL PARATHION IN SUSP. FRAC. WATER SAMP.(UG/L)	09/07/71-08/01/73	7	0.	0.	0.	0.	0.	0.	**	**	**	**
39632	ATRAZINE DISSOLVED IN WATER PPB	03/26/96-07/30/96	2	0.014	0.014	0.02	0.007	0.	0.009	**	**	**	**
39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	06/20/84-08/31/92	34	0.01	0.011	0.03	0.005	0.	0.007	0.005	0.005	0.01	0.02
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	09/07/71-08/31/92	51	0.04	0.059	0.46	0.	0.006	0.077	0.005	0.02	0.08	0.1
39731	2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/11/78-09/04/80	6	0.	0.	0.	0.	0.	0.	**	**	**	**
39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-07/30/96	11	0.03	0.039	0.1	0.	0.001	0.028	0.004	0.018	0.06	0.094
39733	2,4-D IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	09/07/71-08/31/92	51 ##	0.005	0.004	0.01	0.	0.	0.003	0.	0.	0.005	0.005
39741	2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/11/78-09/04/80	6	0.	0.	0.	0.	0.	0.	**	**	**	**
39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-07/30/96	11	0.	0.003	0.018	0.	0.	0.007	0.	0.	0.	0.018
39743	2,4,5-T IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39755	MIREX, TOTAL (UG/L)	10/25/78-09/04/80	5	0.	0.	0.	0.	0.	0.	**	**	**	**
39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	10/24/79-09/04/80	3	0.	0.	0.	0.	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	09/07/71-08/31/92	51 ##	0.005	0.003	0.005	0.	0.	0.002	0.	0.	0.005	0.005
39761	SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/11/78-09/04/80	6	0.	0.	0.	0.	0.	0.	**	**	**	**
39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-07/30/96	11	0.	0.002	0.011	0.	0.	0.004	0.	0.	0.	0.011
39763	SILVEX IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	09/07/71-08/01/73	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	8	0.	0.	0.	0.	0.	0.	**	**	**	**
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	8	0.	0.	0.	0.	0.	0.	**	**	**	**
46342	ALACHLOR (LASSO), WATER, DISSOLVED UG/L	03/26/96-07/30/96	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
49235	TRICLOPYR,RECOVERABLE,WATER,FILTER,GF,0.7U UG/L	03/26/96-07/30/96	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
49236	PROPHAM, RECOVERABLE,WATER,FILTER,GF,0.7U UG/L	03/26/96-07/30/96	2 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
49260	ACETOCHLOR, RECOVERABLE, WATER, FILTERED UG/L	03/26/96-07/30/96	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
49291	PICLORAM,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
49292	ORYZALIN,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
49293	NORFLURAZON,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	2 ##	0.012	0.012	0.012	0.012	0.	0.	**	**	**	**
49294	NEBURON,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	2 ##	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
49295	NAPTHOL,1-,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	2 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
49296	METHOMYL,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	2 ##	0.009	0.009	0.009	0.009	0.	0.	**	**	**	**
49297	FENURON,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	2 ##	0.007	0.007	0.007	0.007	0.	0.	**	**	**	**
49298	ESFENVALERATE,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
49299	CRESOL,O-,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	2 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
49300	DIURON, RECV,FILTERED, WATER, GF, 0.7U UG/L	03/26/96-07/30/96	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
49301	DINOSEB, RECV, FILTERED, WATER, GF, 0.7U UG/L	03/26/96-07/30/96	2 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
49302	DICHLORPROP,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	2 ##	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
49303	DICHLOBENIL,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
49304	DACTHAL, RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	2 ##	0.009	0.009	0.009	0.009	0.	0.	**	**	**	**
49305	CLOPYRALID,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
49306	CHLOROTHALONIL,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	2 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
49307	AMIBEN, RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	2 ##	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
49308	HYDROXYCARBOFURAN,3-,RECV,FILT,WATER,GF,0.7U UG/L	03/26/96-07/30/96	2 ##	0.007	0.007	0.007	0.007	0.	0.	**	**	**	**
49309	CARBOFURAN,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	2 ##	0.014	0.014	0.014	0.014	0.	0.	**	**	**	**
49310	CARBARYL,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	2 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
49311	BROMOXYNIL,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	2 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
49312	ALDICARB, RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	2 ##	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
49313	ALDICARB SULFONE,RECV,FILTERED,GF,0.7U UG/L	03/26/96-07/30/96	2 ##	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
49314	ALDICARB SULFOXIDE,RECV,FILTERED,GF,0.7U UG/L	03/26/96-07/30/96	2 ##	0.011	0.011	0.011	0.011	0.	0.	**	**	**	**
49315	ACIFLUORFEN,RECV,FILTERED,WATER,GF,0.7U UG/L	03/26/96-07/30/96	2 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	412	667.5	680.527	3380.	234.	62050.994	249.1	407.2	560.	779.5	893.7
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-02/16/83	211	622.	622.033	1050.	250.	19657.347	140.205	451.8	549.	690.	796.
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	516	3315.01	3938.222	29800.	1110.01	6858116.183	2618.801	2037.01	2642.5	4310.	6018.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	517	0.89	0.913	4.6	0.32	0.1	0.317	0.568	0.765	1.04	1.21
70326	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .002MM	10/07/49-07/23/51	15	3.	6.267	34.	1.	67.352	8.207	1.	3.	7.	20.2
70327	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .004MM	10/07/49-07/23/51	18	7.	9.056	41.	1.	82.761	9.097	1.	4.	11.25	18.5
70328	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .008MM	10/07/49-07/23/51	19	23.	23.158	50.	2.	217.474	14.747	4.	10.	34.	49.
70329	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .016MM	10/07/49-07/23/51	19	44.	46.526	83.	10.	459.041	21.425	16.	29.	64.	83.
70330	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .031MM	10/07/49-07/23/51	18	54.5	54.778	92.	14.	462.183	21.498	22.1	39.	71.5	80.3
70331p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/01/49-06/06/83	125	76.	73.032	99.	20.	323.596	17.989	46.	63.5	87.	95.
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	10/01/49-06/06/83	100	85.	81.91	100.	38.	215.214	14.67	58.	78.	92.	97.9
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	10/01/49-09/19/61	96	98.	96.063	100.	70.	28.754	5.362	90.	95.25	99.	100.
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	10/01/49-09/19/61	85	100.	99.106	100.	76.	10.81	3.288	98.	100.	100.	100.
70335	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM	06/22/50-06/10/60	2	100.	100.	100.	100.	0.	0.	**	**	**	**
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	10/01/49-06/12/91	29	23.	25.172	62.	4.	212.648	14.582	8.	13.	36.	44.
70338p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/01/49-06/12/91	154	38.	40.981	85.	7.	393.091	19.827	17.	24.75	56.25	71.
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	10/01/49-06/12/91	36	40.5	42.667	82.	10.	487.829	22.087	16.	20.	62.25	75.3
70340p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/01/49-06/12/91	155	53.	55.987	97.	12.	529.584	23.013	25.	38.	75.	90.4
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	10/01/49-06/12/91	29	54.	52.793	90.	15.	448.67	21.182	27.	33.5	70.	86.
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/01/59-06/12/91	69	82.	80.638	100.	37.	232.352	15.243	58.	70.	95.	98.
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/01/59-06/12/91	67	92.	89.642	100.	56.	85.718	9.258	78.	86.	97.	98.
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	10/01/59-06/12/91	66	99.	98.167	100.	83.	7.249	2.692	94.7	97.75	100.	100.
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	10/01/59-06/12/91	44	100.	99.864	100.	98.	0.167	0.409	99.	100.	100.	100.
70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	06/10/60-05/02/78	5	100.	100.	100.	100.	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/08/82-02/08/82	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	11/20/80-01/05/81	3	0.02	0.037	0.08	0.01	0.001	0.038	**	**	**	**
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	10/01/64-06/23/81	29	1.6	1.501	2.1	0.03	0.152	0.39	1.1	1.25	1.7	1.8
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	12/01/49-09/22/61	70	1.3	1.686	5.8	0.	1.758	1.326	0.21	0.7	2.525	3.67
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	428	1.1	1.731	150.	0.	53.096	7.287	0.3	0.6	1.8	2.8
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	10/01/64-09/19/65	27	6.	5.481	9.	1.	6.49	2.548	1.8	4.	8.	9.
71870	BROMIDE (MG/L AS BR)	10/01/63-09/19/65	53	0.38	0.375	0.42	0.29	0.001	0.027	0.328	0.365	0.39	0.4
71885	IRON (UG/L AS FE)	12/18/60-05/04/67	135	0.	7.852	70.	0.	200.575	14.162	0.	0.	10.	20.
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	11/20/80-10/15/85	36	0.215	1.209	19.	0.06	13.268	3.643	0.081	0.12	0.58	1.454
71887	NITROGEN, TOTAL, AS NO3 - MG/L	11/20/80-08/13/85	26	4.7	9.	67.	2.8	173.339	13.166	3.01	3.575	7.25	20.9
71890	MERCURY, DISSOLVED (UG/L AS HG)	11/04/87-03/14/91	17	0.1	0.171	0.6	0.05	0.029	0.17	0.05	0.05	0.2	0.52
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/49-09/18/92	327	757.	2483.367	28900.	12.	19178588.129	4379.336	85.8	185.	2640.	6580.
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/59-02/26/86	133	2110.	29519.18	867000.	49.1	0611498723.104	103012.129	281.6	766.	15900.	55420.
80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	09/29/70-03/08/77	18	1.	1.006	5.	0.1	1.208	1.099	0.19	0.3	1.	2.3
80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	09/29/70-03/08/77	18	1.	2.072	14.	0.3	9.517	3.085	0.93	1.	2.	5.
80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	09/29/70-03/08/77	18	17.5	19.778	76.	2.	299.359	17.302	3.8	7.5	25.25	40.9
80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	09/29/70-03/08/77	18	64.5	57.111	91.	13.	857.163	29.277	20.2	26.25	85.	90.1
80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	09/29/70-03/08/77	18	75.	66.111	100.	16.	839.516	28.974	27.7	35.5	90.5	98.2
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	09/29/70-03/08/77	17	74.	66.176	98.	17.	794.279	28.183	29.	37.5	92.	96.4
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	09/29/70-03/08/77	17	87.	69.235	99.	21.	787.566	28.064	32.2	38.	95.	98.2
80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	09/29/70-03/08/77	17	88.	74.059	100.	32.	639.934	25.297	39.2	45.	99.	100.
80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	09/29/70-03/08/77	15	91.	79.933	100.	54.	344.638	18.564	55.2	62.	100.	100.
80173	BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM	04/13/71-08/11/76	11	93.	91.	100.	65.	110.6	10.517	68.6	86.	100.	100.
80174	BED MATERIAL SIEVE DIAMETER,% FINER THAN 64.0MM	08/11/76-08/11/76	1	100.	100.	100.	100.	0.	0.	**	**	**	**
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	10/24/79-09/04/80	3	0.	0.	0.	0.	0.	0.	**	**	**	**
82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	06/20/84-08/31/92	34	0.02	0.028	0.1	0.005	0.001	0.023	0.005	0.01	0.04	0.065
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	10/24/79-08/31/92	36 ##	0.005	0.005	0.005	0.	0.	0.001	0.005	0.005	0.005	0.005
82630	METRIBUZIN (SENCOR), WATER, DISSOLVED UG/L	03/26/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82660	DIETHYLANILINE, 2, 6-,0.7UM FILT,TOT RECV,WTR UG/L	03/26/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82661	TRIFLURALINE, 0.7UM FILT,TOT RECV, WATER UG/L	03/26/96-07/30/96	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
82663	ETHALFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82664	PHORATE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
82665	TERBACIL, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	2 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
82666	LINURON, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
82667	METHYL PARATHION,0.7 UM FILT,TOT RECV,WATER UG/L	03/26/96-07/30/96	2 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
82668	EPTC, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
82669	PEBULATE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82670	TEBUTHIURON, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82671	MOLINATE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
82672	ETHOPROP, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82673	BENFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
82674	CARBOFURAN, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82675	TERBUFOS, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82676	PRONAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82677	DISULFOTON, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82678	TRIALLATE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
82679	PROPANIL, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82680	CARBARYL, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82681	THIOBENCARB, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
82682	DCPA, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
82683	PENDIMETHALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82684	NAPROPAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82685	PROPARGITE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82686	METHYL AZINPHOS, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
82687	PERMETHRIN, CIS, 0.7 UM FILT, TOT RECV, WATER UG/L	03/26/96-07/30/96	2 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0002

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	78	33	0.42	51	13	0.25	16	13	0.81	11	7	0.64			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	3	3	1.00	3	3	1.00									
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	122	0	0.00	81	0	0.00	23	0	0.00	18	0	0.00			
00400	PH	Fresh Chronic	9.	514	1	0.00	312	1	0.00	116	0	0.00	86	0	0.00			
		Other-Lo Lim.	6.5	514	0	0.00	312	0	0.00	116	0	0.00	86	0	0.00			
00403	PH, LAB	Fresh Chronic	9.	70	0	0.00	49	0	0.00	12	0	0.00	9	0	0.00			
		Other-Lo Lim.	6.5	70	0	0.00	49	0	0.00	12	0	0.00	9	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	85	0	0.00	57	0	0.00	15	0	0.00	13	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	58	0	0.00	38	0	0.00	10	0	0.00	10	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	70	0	0.00	48	0	0.00	12	0	0.00	10	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	524	0	0.00	325	0	0.00	114	0	0.00	85	0	0.00			
		Drinking Water	250.	524	0	0.00	325	0	0.00	114	0	0.00	85	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	525	405	0.77	325	305	0.94	115	57	0.50	85	43	0.51			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	497	0	0.00	312	0	0.00	107	0	0.00	78	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	24	0	0.00	18	0	0.00	4	0	0.00	2	0	0.00			
		Drinking Water	50.	24	1	0.04	18	1	0.06	4	0	0.00	2	0	0.00			
01005	BARIUM, DISSOLVED	Drinking Water	2000.	20	0	0.00	16	0	0.00	3	0	0.00	1	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	19	0	0.00	15	0	0.00	3	0	0.00	1	0	0.00			
		Drinking Water	4.	19	0	0.00	15	0	0.00	3	0	0.00	1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	23	0	0.00	18	0	0.00	4	0	0.00	1	0	0.00			
		Drinking Water	5.	23	0	0.00	18	0	0.00	4	0	0.00	1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	25	0	0.00	20	0	0.00	4	0	0.00	1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	25	0	0.00	20	0	0.00	4	0	0.00	1	0	0.00			
		Drinking Water	1300.	25	0	0.00	20	0	0.00	4	0	0.00	1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	25	0	0.00	20	0	0.00	4	0	0.00	1	0	0.00			
		Drinking Water	15.	25	0	0.00	20	0	0.00	4	0	0.00	1	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	16	0	0.00	13	0	0.00	3	0	0.00						
		Drinking Water	100.	16	0	0.00	13	0	0.00	3	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	23	0	0.00	18	0	0.00	4	0	0.00	1	0	0.00			
		Drinking Water	100.	23	0	0.00	18	0	0.00	4	0	0.00	1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	22	1	0.05	17	1	0.06	4	0	0.00	1	0	0.00			
		Drinking Water	5000.	22	0	0.00	17	0	0.00	4	0	0.00	1	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	19	0	0.00	14	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	50.	19	0	0.00	14	0	0.00	3	0	0.00	2	0	0.00			
04035	SIMAZINE, DISSOLVED, WATER, TOTAL RECOVE	Drinking Water	4.	2	0	0.00	1	0	0.00				1	0	0.00			
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	11	6	0.55	8	4	0.50	2	2	1.00	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: BICA0002

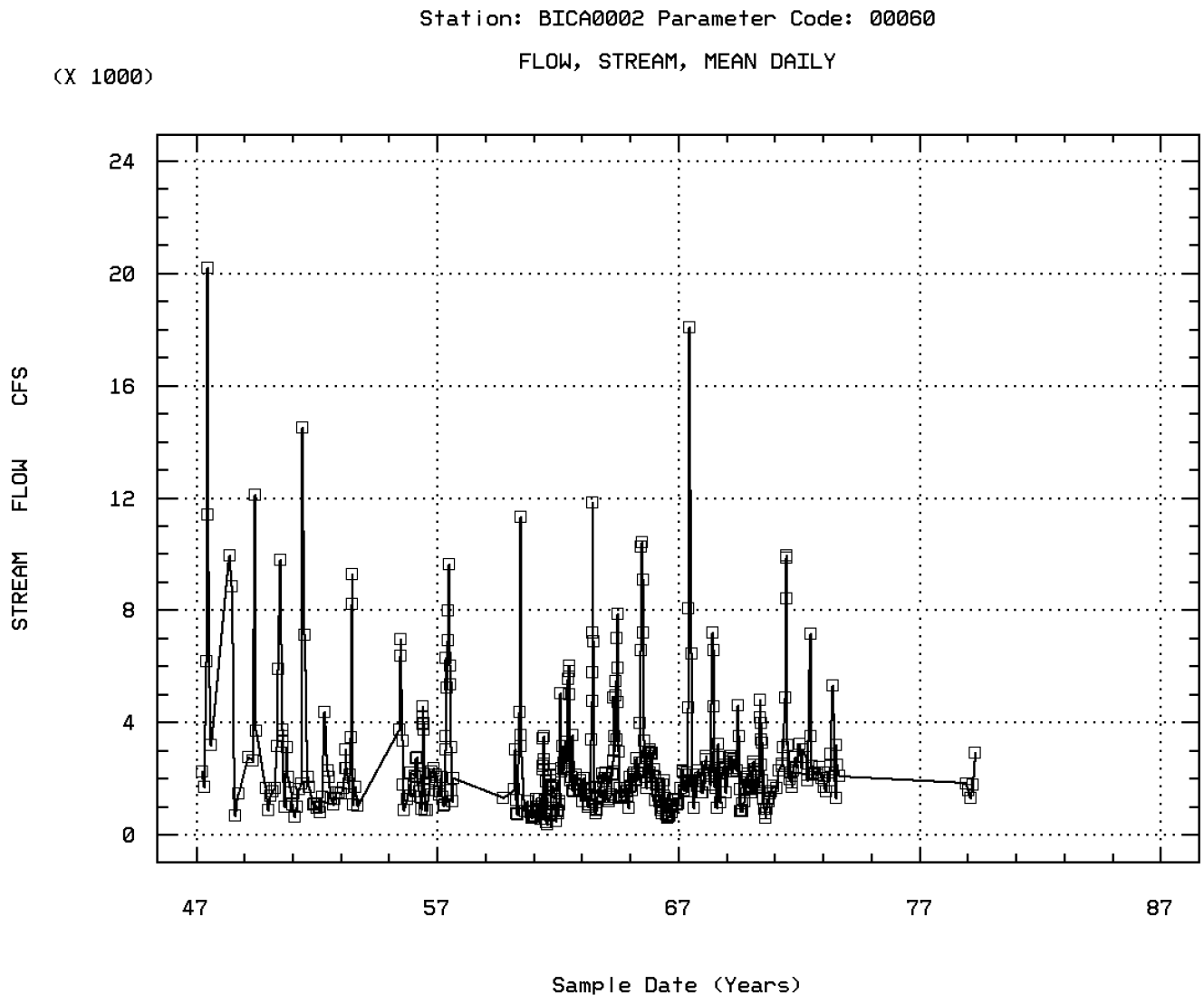
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	38	10	0.26	23	1	0.04	8	5	0.63	7	4	0.57			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	84	38	0.45	58	20	0.34	14	9	0.64	12	9	0.75			
34653	P,P'-DDE, DISSOLVED	Fresh Acute	1050.	2	0	0.00	1	0	0.00				1	0	0.00			
38866	OXAMYL, DISSOLVED	Drinking Water	200.	2	0	0.00	1	0	0.00				1	0	0.00			
38933	CHLORPYRIFOS, DISSOLVED	Fresh Acute	0.083	2	0	0.00	1	0	0.00				1	0	0.00			
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	17	0	0.00	11	0	0.00	4	0	0.00	2	0	0.00			
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP.	Fresh Acute	3.	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39332	ALDRIN IN SUSP. FRAC. OF WAT. SAMP.	Fresh Acute	3.	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	17	0	0.00	11	0	0.00	4	0	0.00	2	0	0.00			
		Drinking Water	0.2	17	0	0.00	11	0	0.00	4	0	0.00	2	0	0.00			
39341	GAMMA-BHC(LINDANE), DISSOLVED	Fresh Acute	2.	11	0	0.00	7	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	0.2	11	0	0.00	7	0	0.00	1	0	0.00	3	0	0.00			
39342	GAMMA-BHC(LINDANE), SUSPENDED	Fresh Acute	2.	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	0.2	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	17	0	0.00	11	0	0.00	4	0	0.00	2	0	0.00			
		Drinking Water	2.	17	0	0.00	11	0	0.00	4	0	0.00	2	0	0.00			
39352	CHLORDANE(TECH MIX & METABS), DISSOLVED	Fresh Acute	2.4	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	2.	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39353	CHLORDANE(TECH MIX & METABS), SUSPENDED	Fresh Acute	2.4	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	2.	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	17	0	0.00	11	0	0.00	4	0	0.00	2	0	0.00			
39361	DDD IN FILT. FRAC. OF WATER SMAPLE	Fresh Acute	0.6	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39362	DDD IN SUSP. FRAC. OF WATER SAMPLE	Fresh Acute	0.6	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	17	0	0.00	11	0	0.00	4	0	0.00	2	0	0.00			
39366	DDE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1050.	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39367	DDE IN SUSP. FRAC. OF WATER SAMPLE	Fresh Acute	1050.	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	17	0	0.00	11	0	0.00	4	0	0.00	2	0	0.00			
39371	DDT IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1.1	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39372	DDT IN SUSP. FRAC. OF WATER SAMPLE	Fresh Acute	1.1	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	17	0	0.00	11	0	0.00	4	0	0.00	2	0	0.00			
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	2.5	11	0	0.00	7	0	0.00	1	0	0.00	3	0	0.00			
39382	DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE	Fresh Acute	2.5	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39388	ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute	0.22	7	0	0.00	4	0	0.00	3	0	0.00						
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	17	0	0.00	11	0	0.00	4	0	0.00	2	0	0.00			
		Drinking Water	2.	17	0	0.00	11	0	0.00	4	0	0.00	2	0	0.00			
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.18	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	2.	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39392	ENDRIN IN SUSP. FRAC. OF WATER SAMPLE	Fresh Acute	0.18	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	2.	9	0	0.00	6	0	0.00	1	0	0.00	2	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	17	0	0.00	11	0	0.00	4	0	0.00	2	0	0.00			
		Drinking Water	0.4	17	0	0.00	11	0	0.00	4	0	0.00	2	0	0.00			
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPL	Fresh Acute	0.52	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	0.4	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39412	HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPL	Fresh Acute	0.52	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	0.4	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	17	0	0.00	11	0	0.00	4	0	0.00	2	0	0.00			
		Drinking Water	0.2	17	0	0.00	11	0	0.00	4	0	0.00	2	0	0.00			
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER	Fresh Acute	0.52	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	0.2	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39422	HEPTACHLOR EPOXIDE IN SUSP. FRAC. WATER	Fresh Acute	0.52	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	0.2	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	3	0	0.00	2	0	0.00	1	0	0.00						
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	15	0	0.00	9	0	0.00	4	0	0.00	2	0	0.00			
39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.065	11	0	0.00	7	0	0.00	1	0	0.00	3	0	0.00			
39543	PARATHION IN SUSP. FRAC. OF WATER SAMPLE	Fresh Acute	0.065	7	0	0.00	4	0	0.00	1	0	0.00	2	0	0.00			
39632	ATRAZINE DISSOLVED IN WATER	Drinking Water	3.	2	0	0.00	1	0	0.00				1	0	0.00			

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

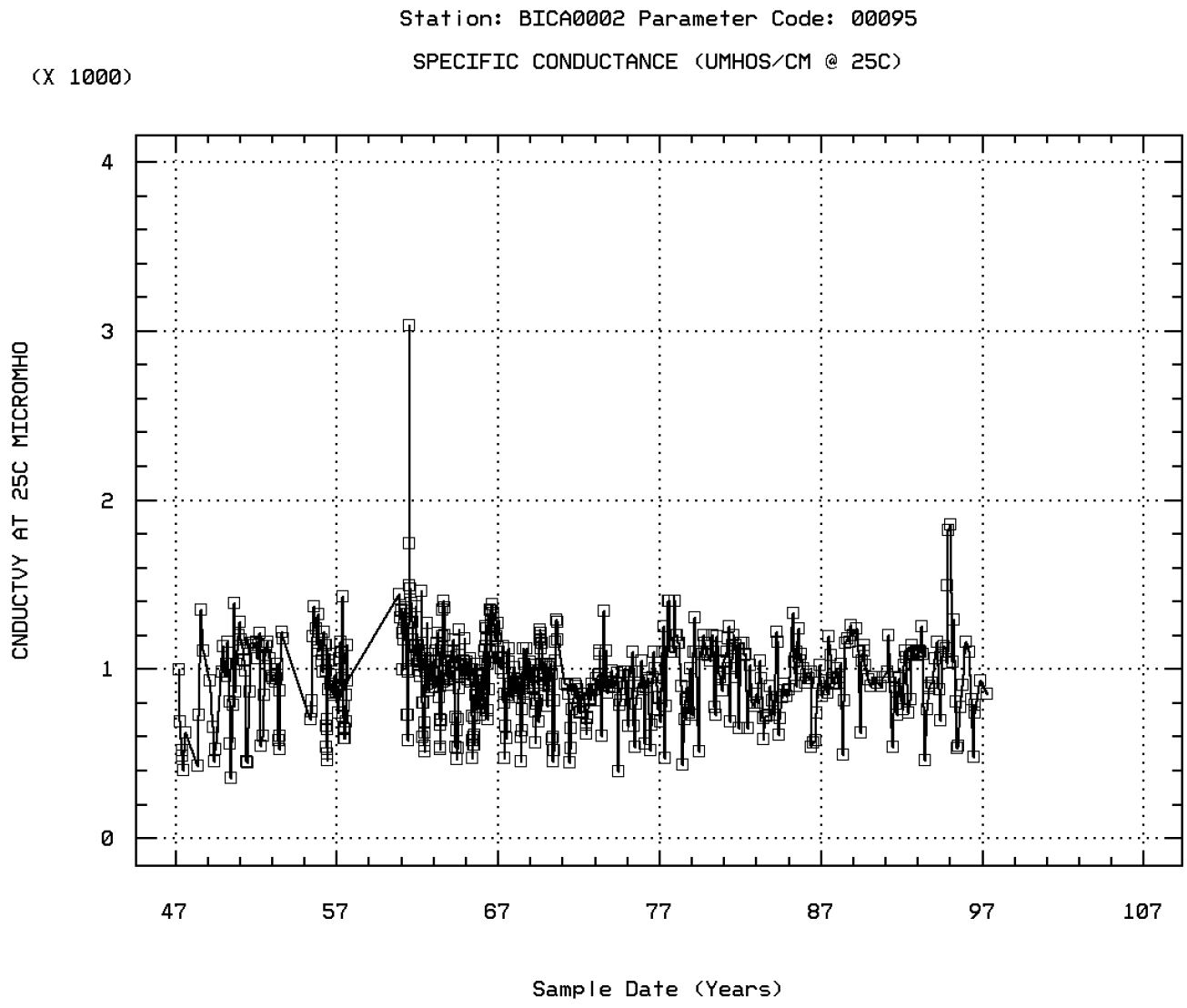
EPA Water Quality Criteria Analysis for Station: BICA0002

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
39720	PICLORAM IN WHOLE WATER SAMPLE	Drinking Water	500.	34	0	0.00	14	0	0.00	9	0	0.00	11	0	0.00			
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	51	0	0.00	24	0	0.00	14	0	0.00	13	0	0.00			
39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	70.	11	0	0.00	7	0	0.00	1	0	0.00	3	0	0.00			
39733	2,4-D IN SUSP. FRAC. OF WATER SAMPLE	Drinking Water	70.	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39760	SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	51	0	0.00	24	0	0.00	14	0	0.00	13	0	0.00			
39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	50.	11	0	0.00	7	0	0.00	1	0	0.00	3	0	0.00			
39763	SILVEX IN SUSP. FRAC. OF WATER SAMPLE	Drinking Water	50.	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
46342	ALACHLOR (LASSO), WATER, DISSOLVED	Drinking Water	2.	2	0	0.00	1	0	0.00				1	0	0.00			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	70	0	0.00	39	0	0.00	21	0	0.00	10	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	428	1	0.00	265	0	0.00	94	0	0.00	69	1	0.01			
71856	NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	27	21	0.78	19	15	0.79	5	4	0.80	3	2	0.67			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	17	0	0.00	13	0	0.00	3	0	0.00	1	0	0.00			
		Drinking Water	2.	17	0	0.00	13	0	0.00	3	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



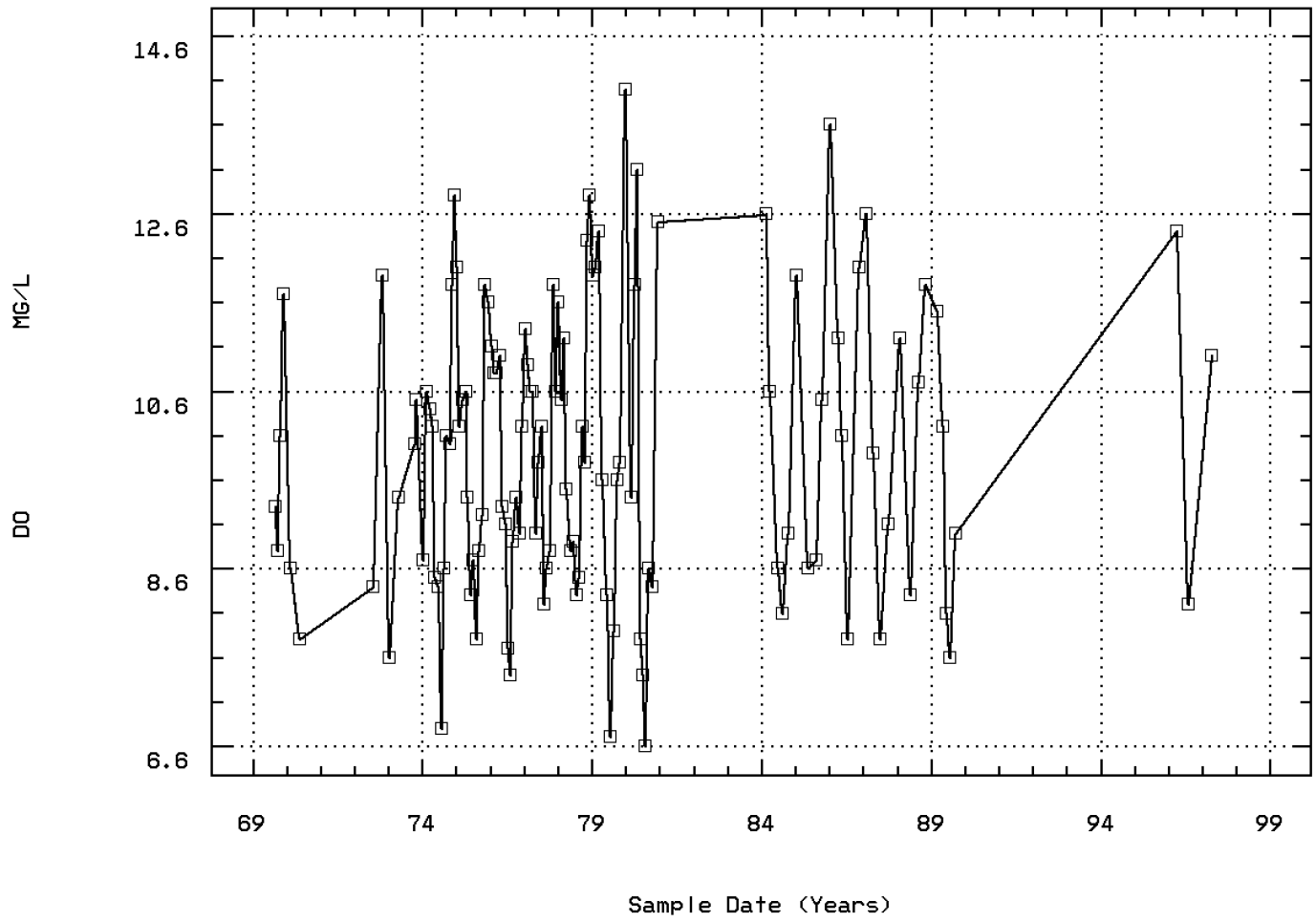
BIGHORN R AT KANE WYO



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00300

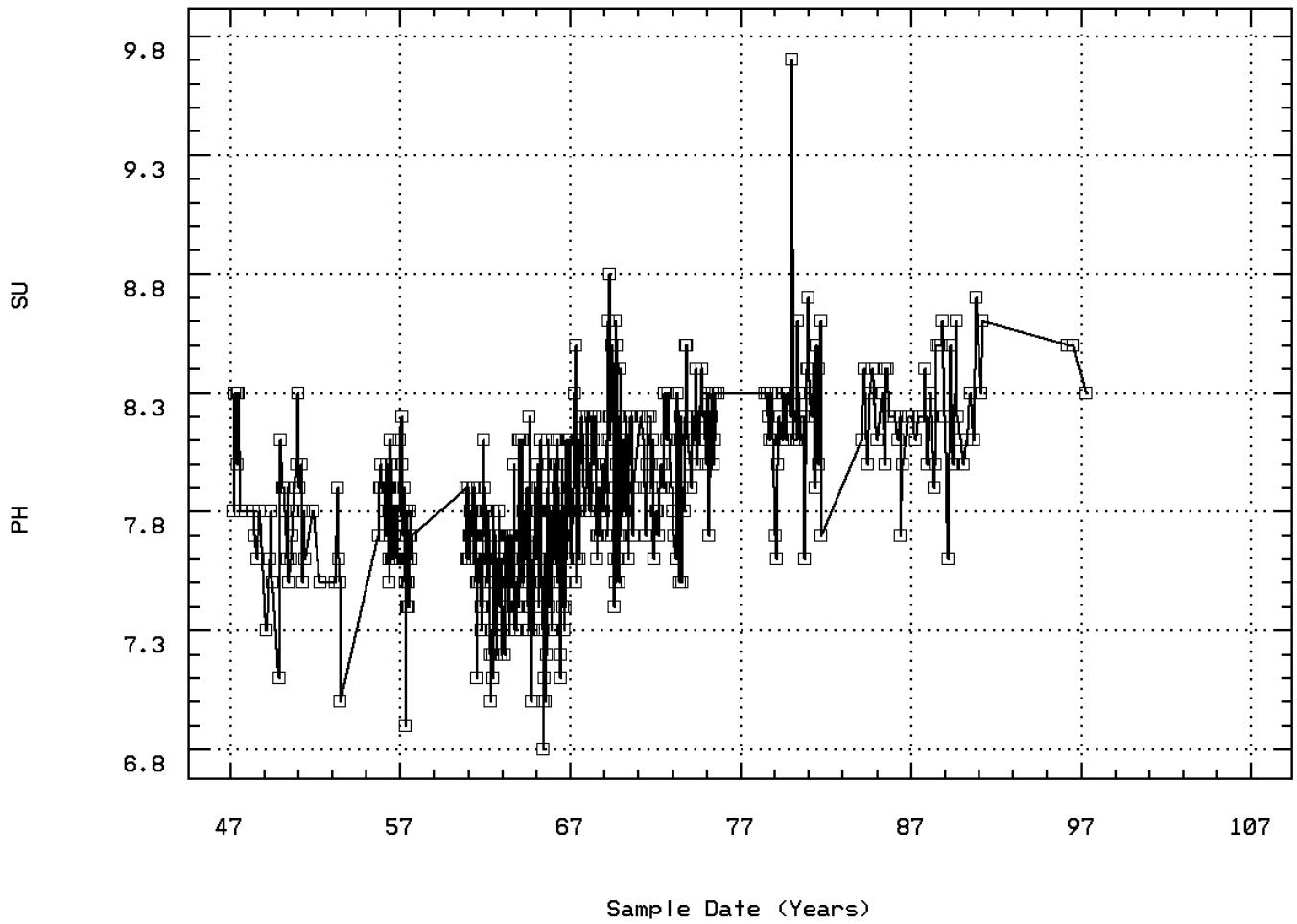
OXYGEN, DISSOLVED



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00400

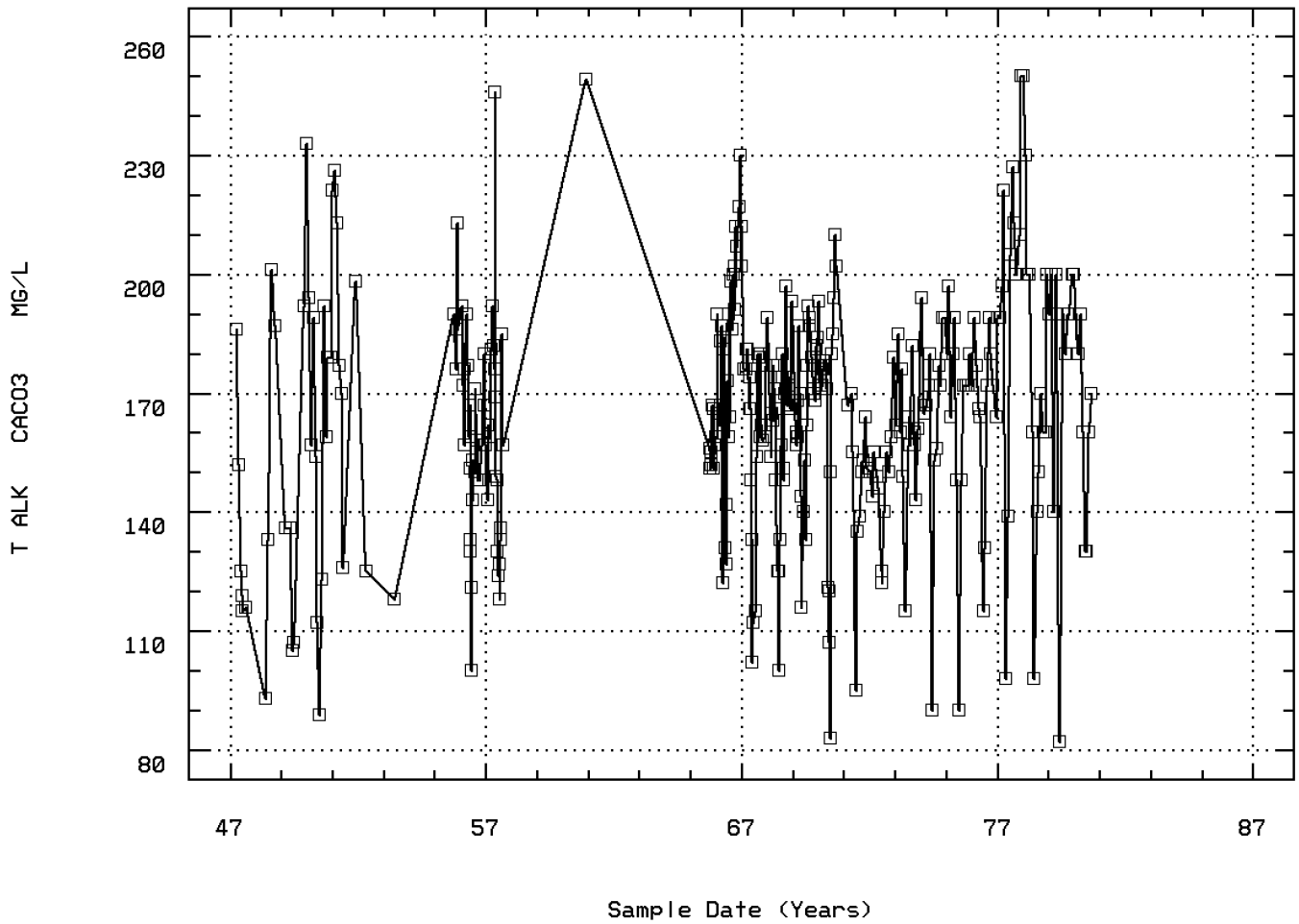
PH (STANDARD UNITS)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00410

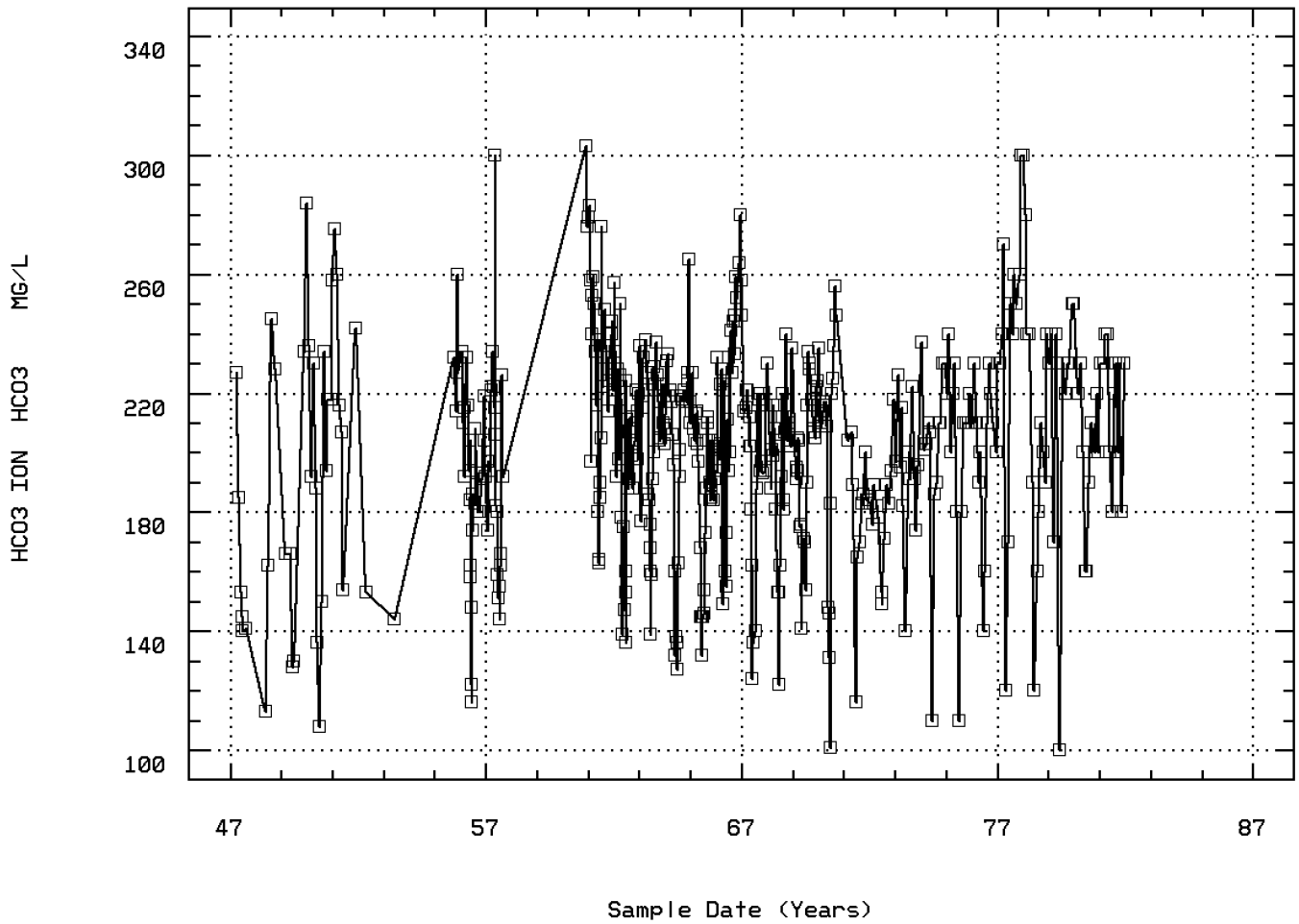
ALKALINITY, TOTAL (MG/L AS CACO3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00440

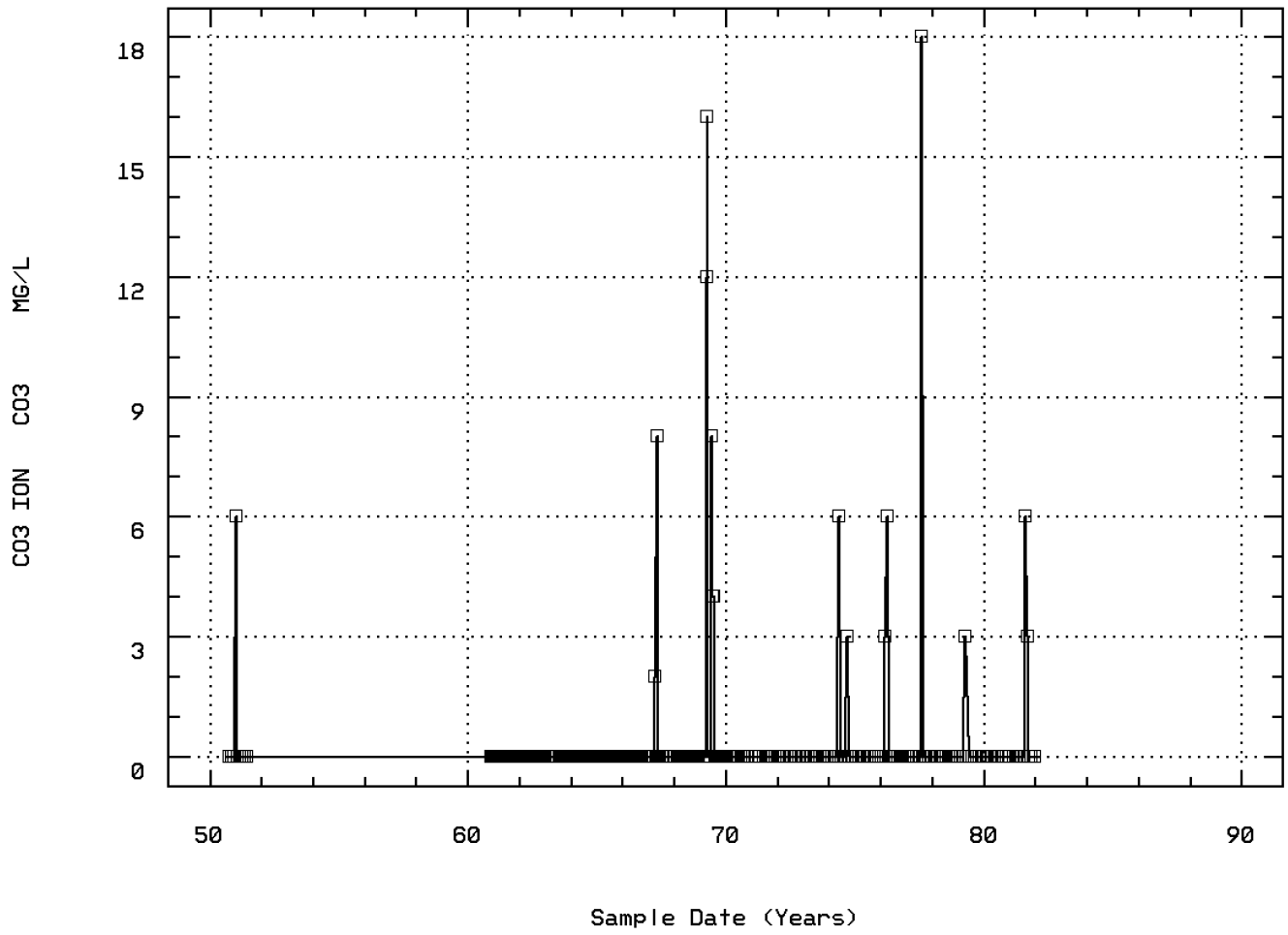
BICARBONATE ION (MG/L AS HCO3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00445

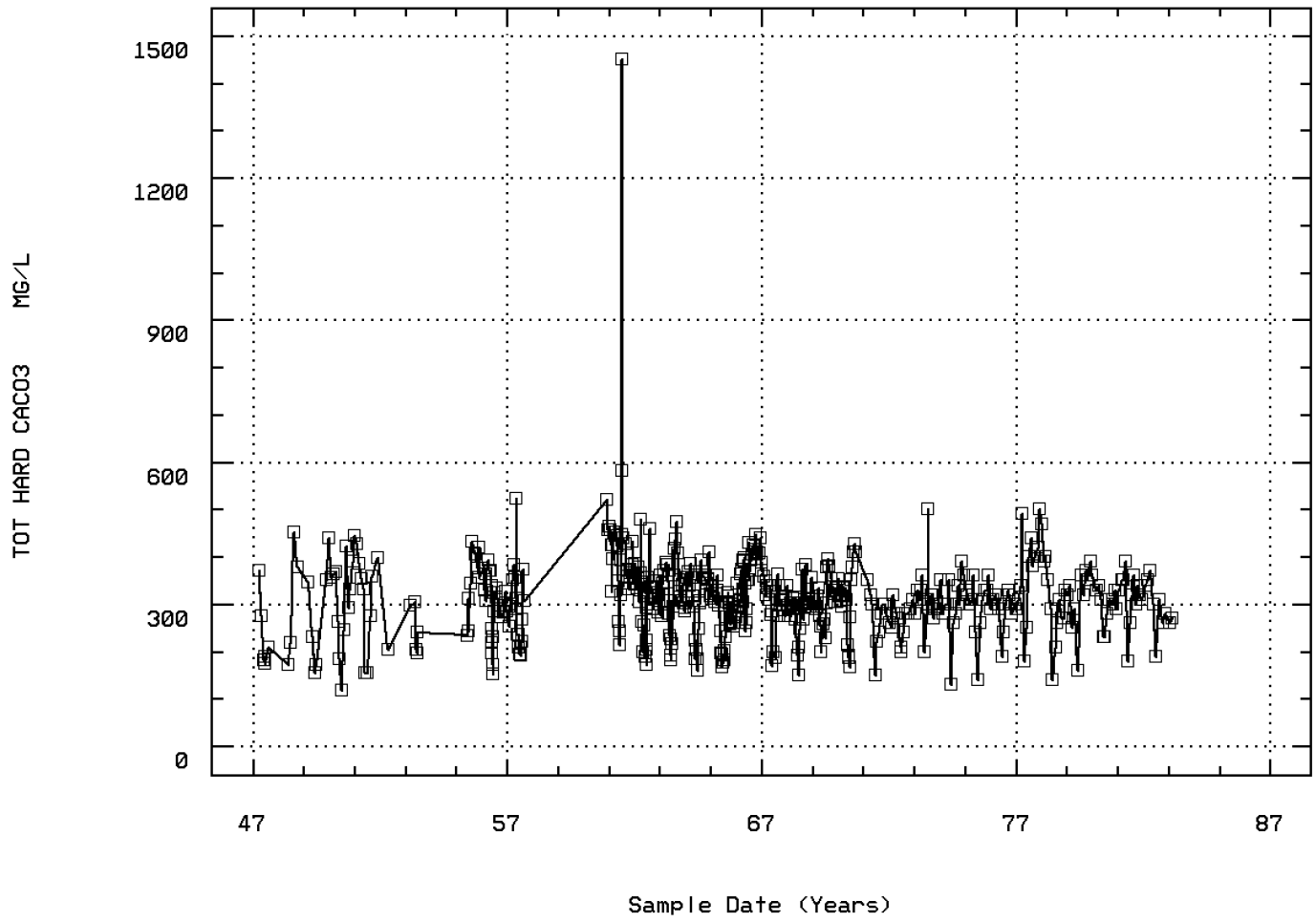
CARBONATE ION (MG/L AS CO3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00900

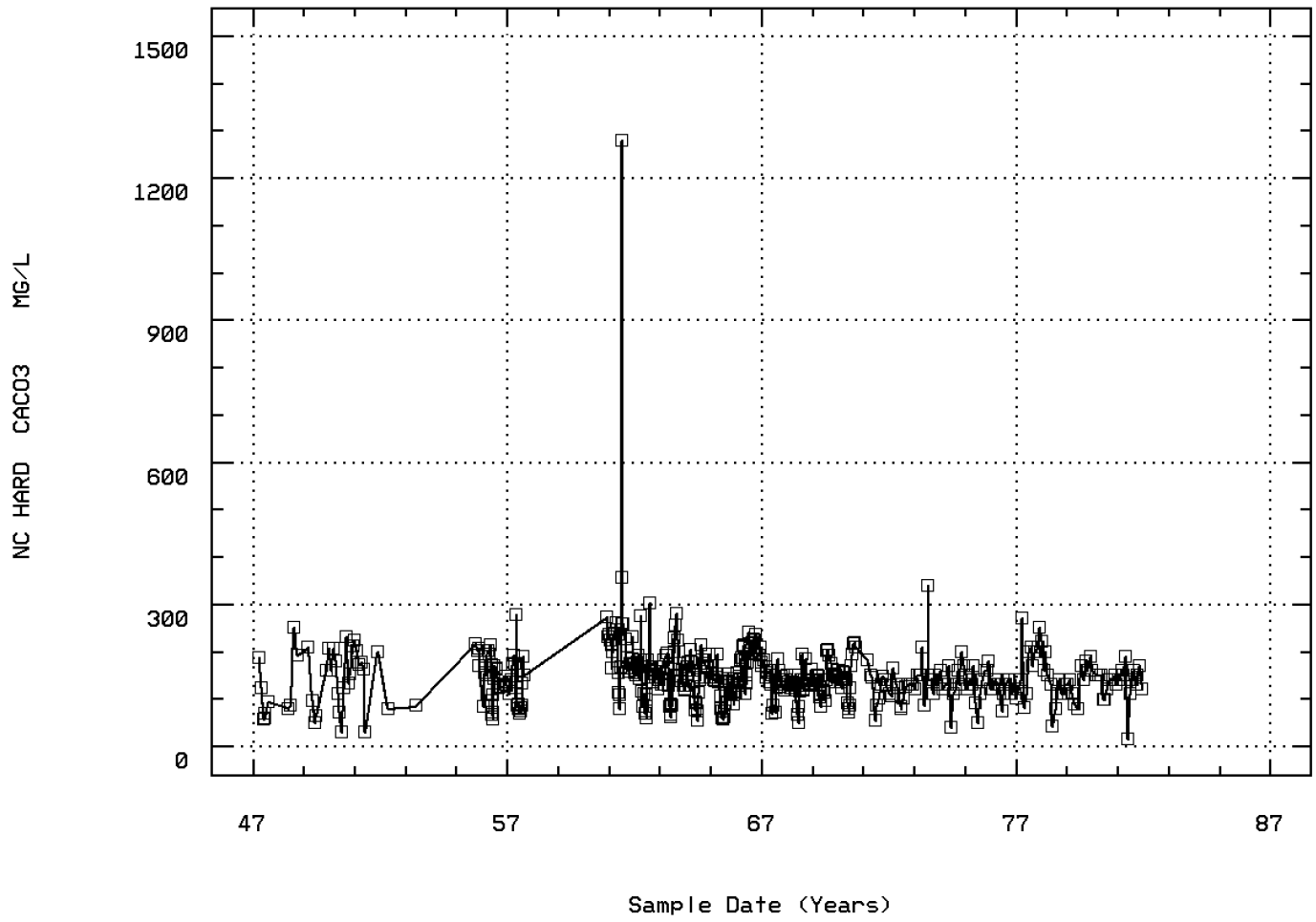
HARDNESS, TOTAL (MG/L AS CACO3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00902

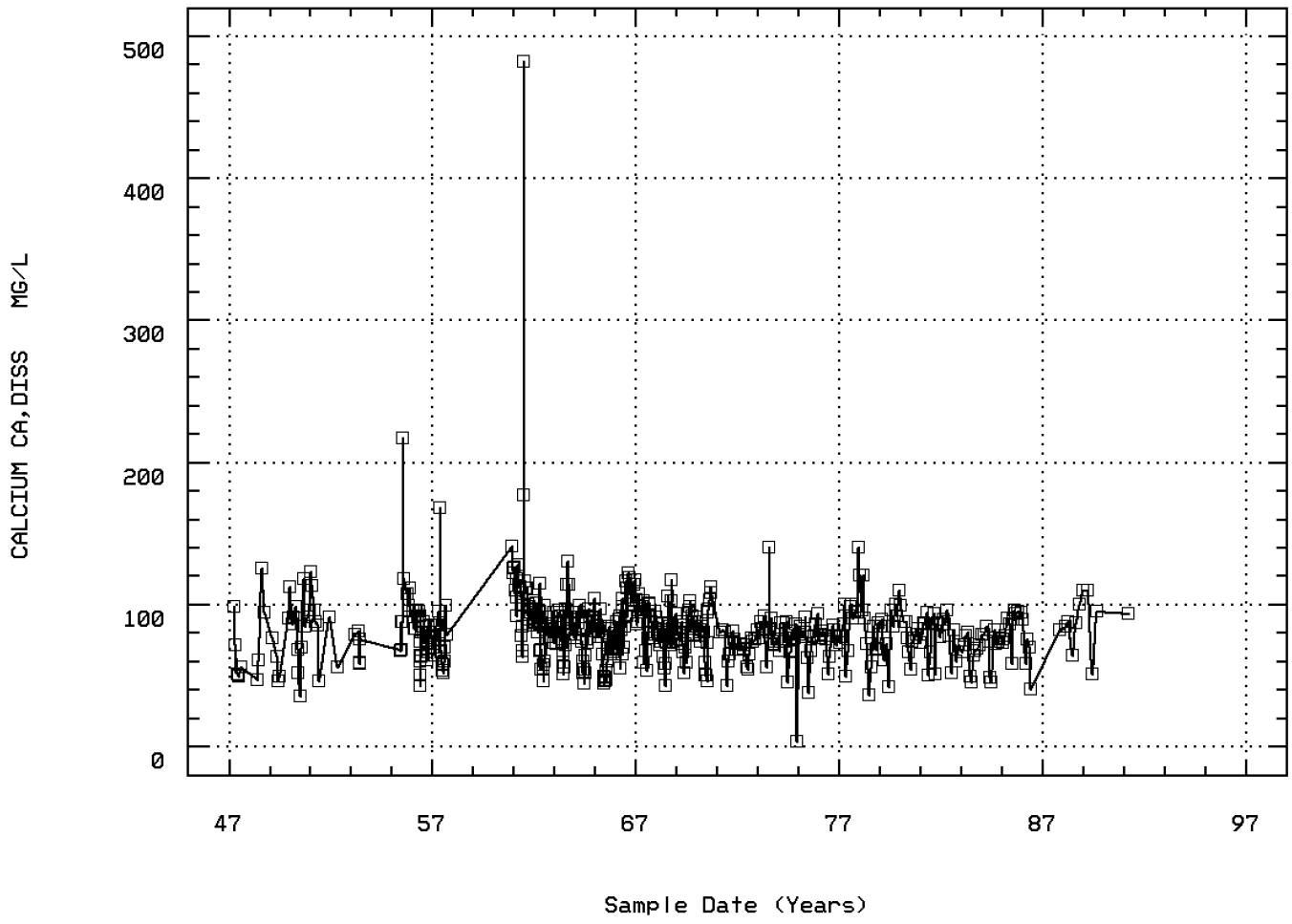
HARDNESS, NON-CARBONATE (MG/L AS CACO3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00915

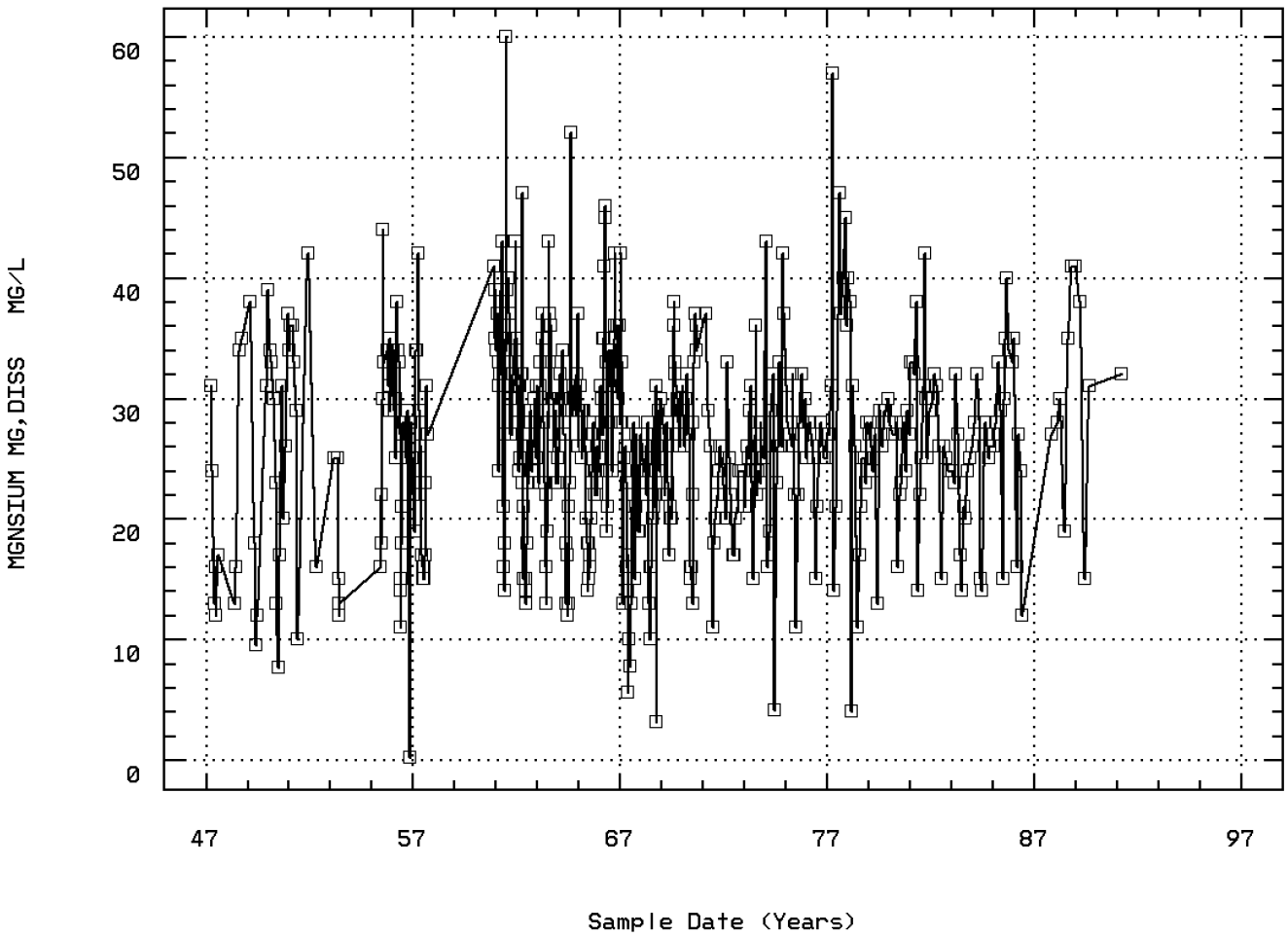
CALCIUM, DISSOLVED (MG/L AS CA)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00925

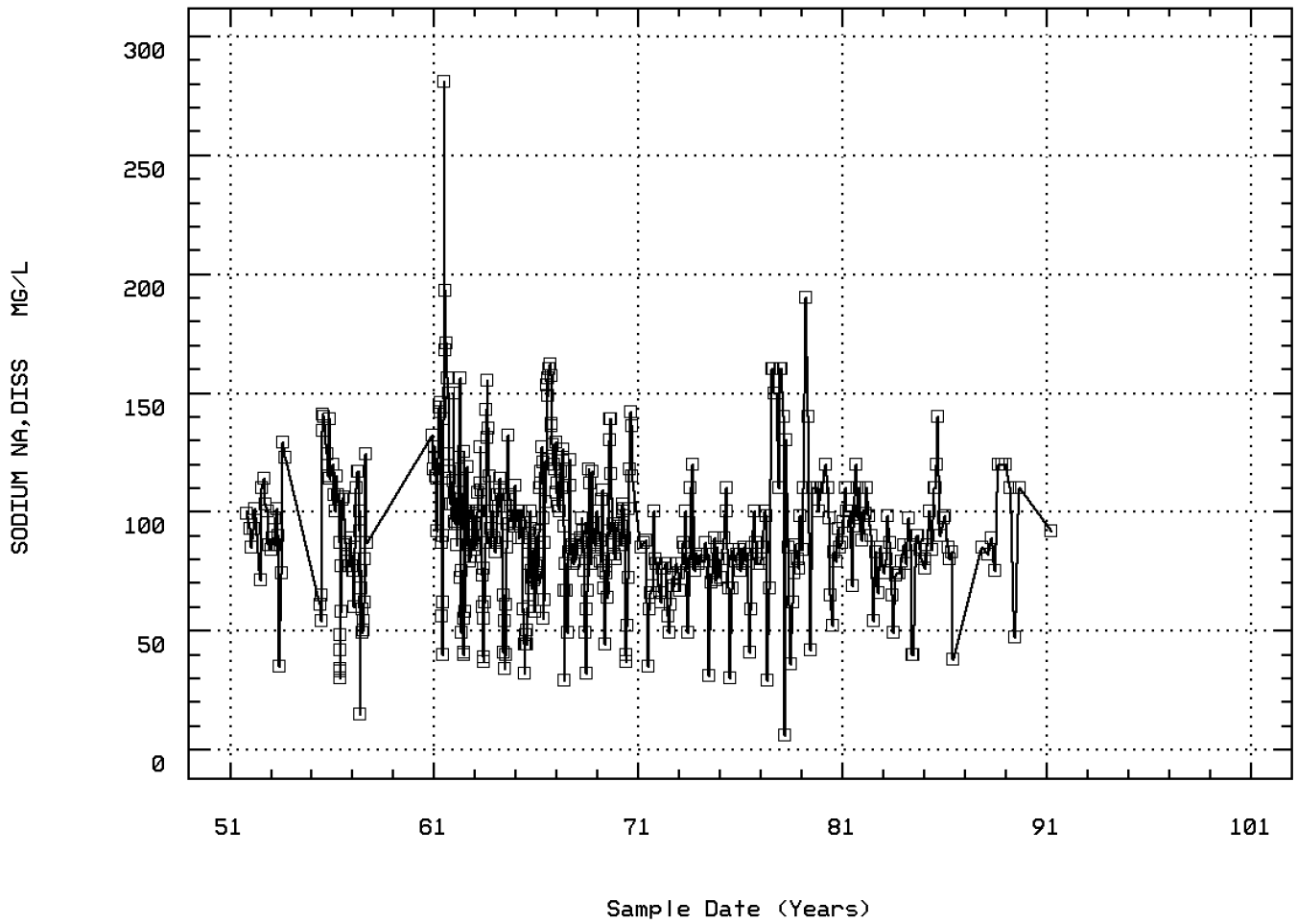
MAGNESIUM, DISSOLVED (MG/L AS MG)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00930

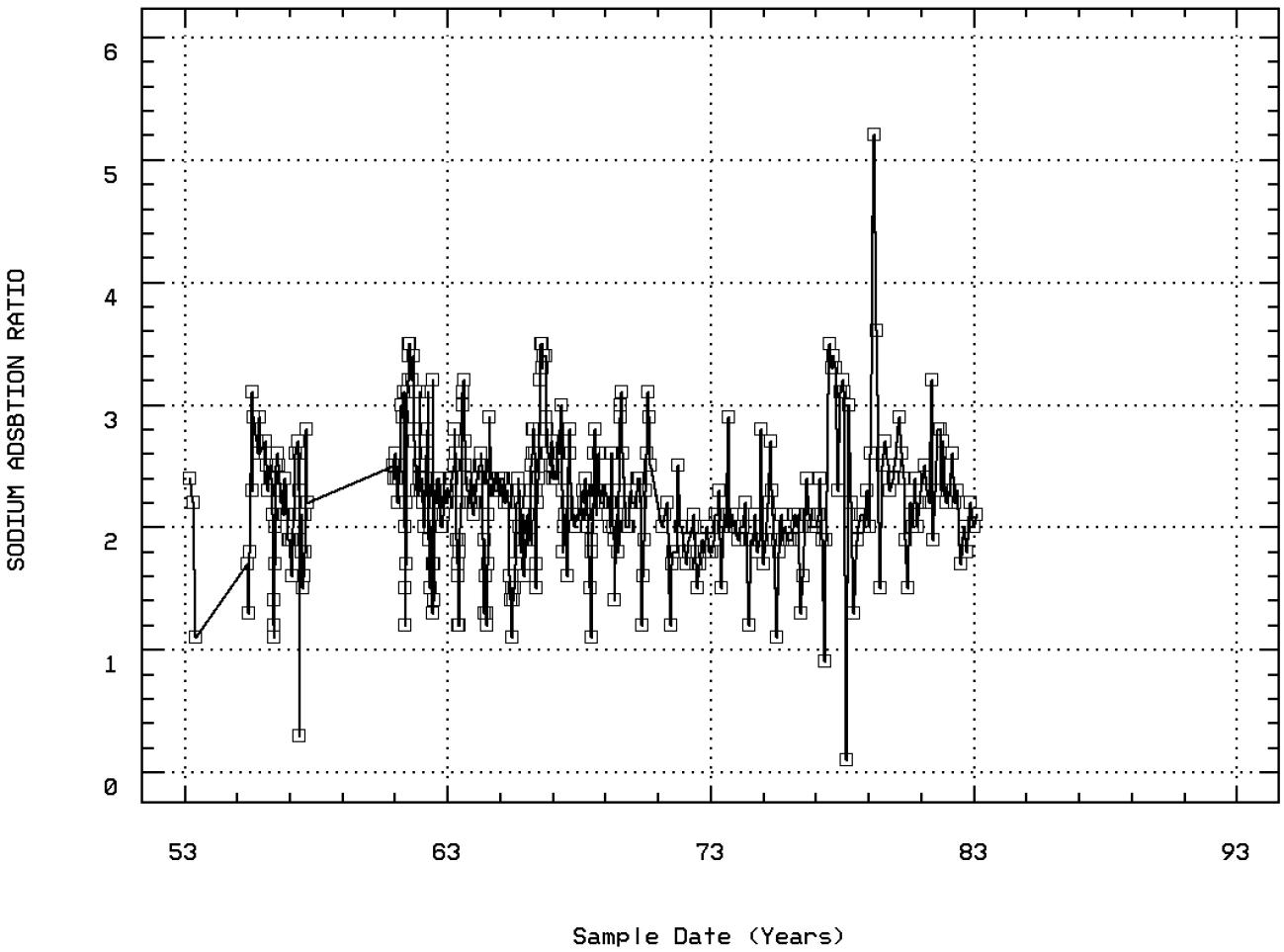
SODIUM, DISSOLVED (MG/L AS NA)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00931

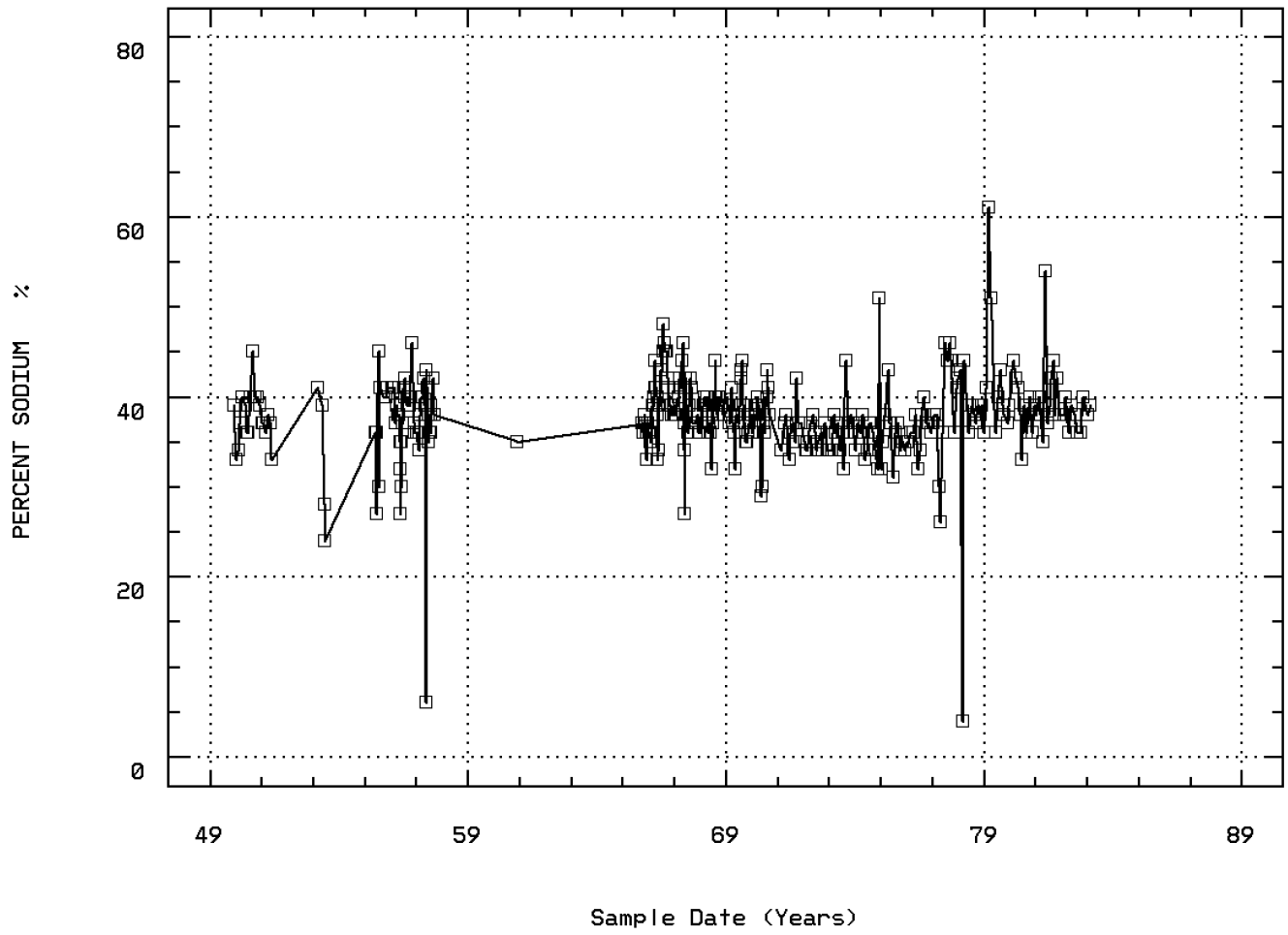
SODIUM ADSORPTION RATIO



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00932

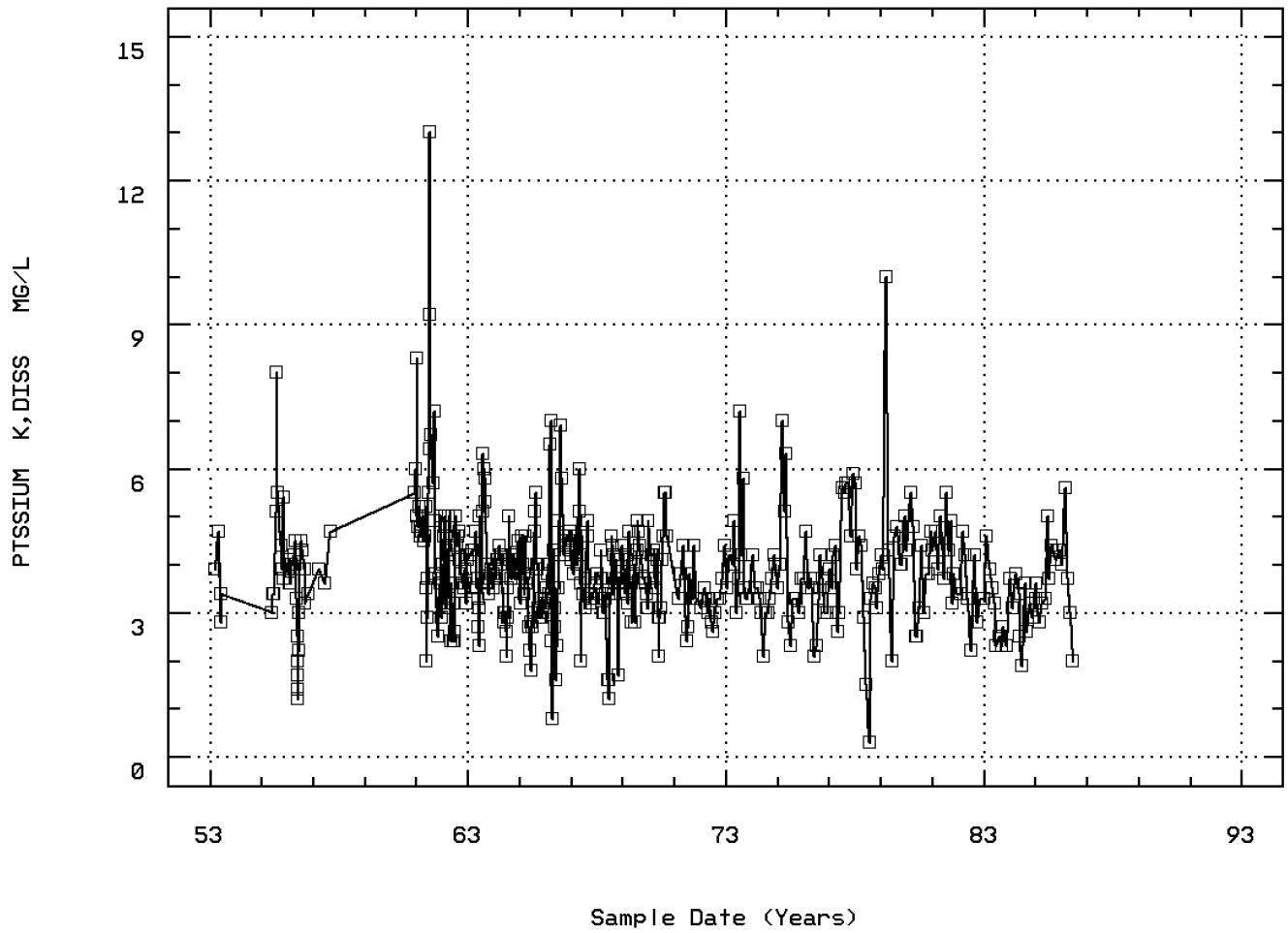
SODIUM, PERCENT



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00935

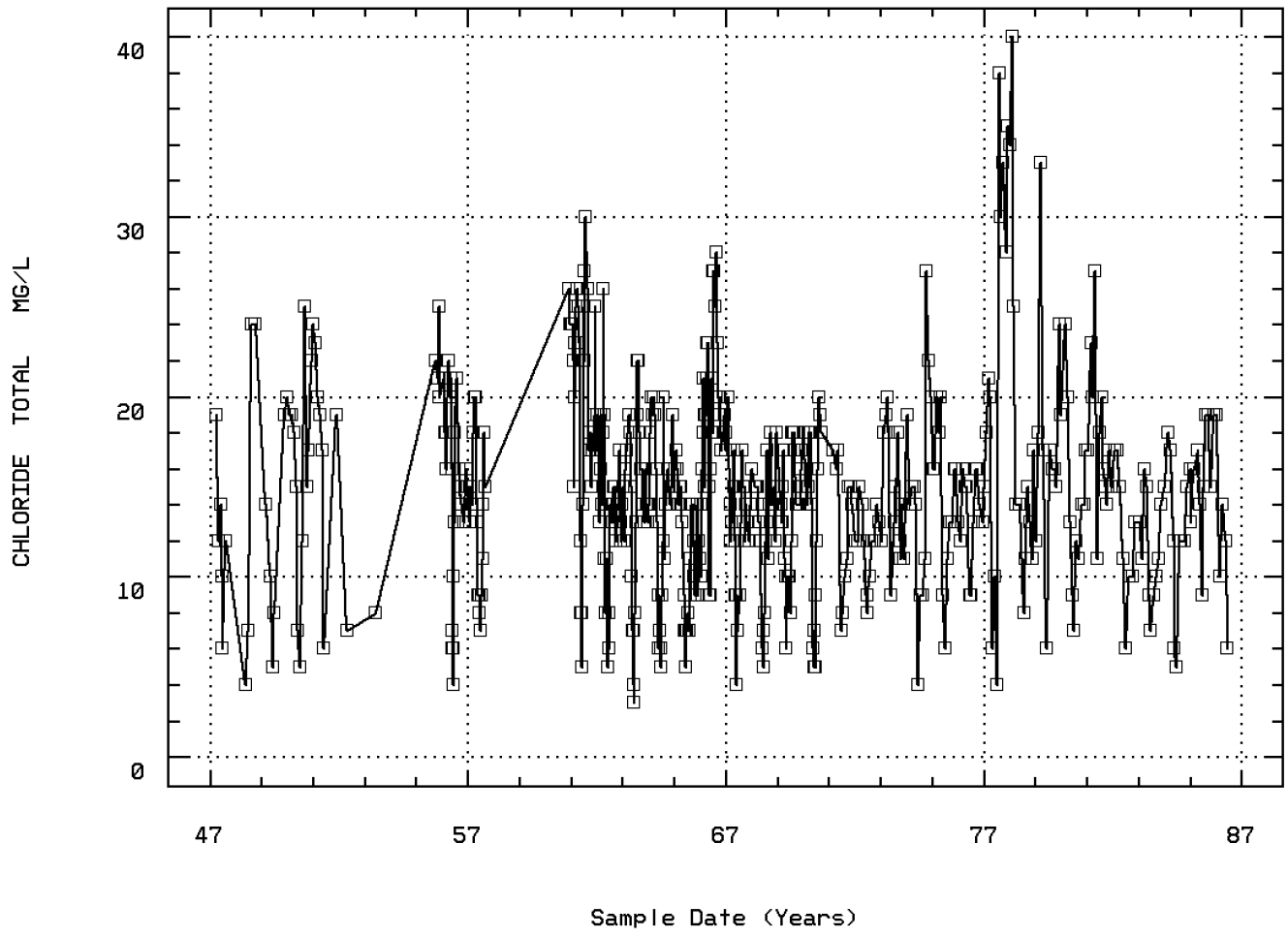
POTASSIUM, DISSOLVED (MG/L AS K)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00940

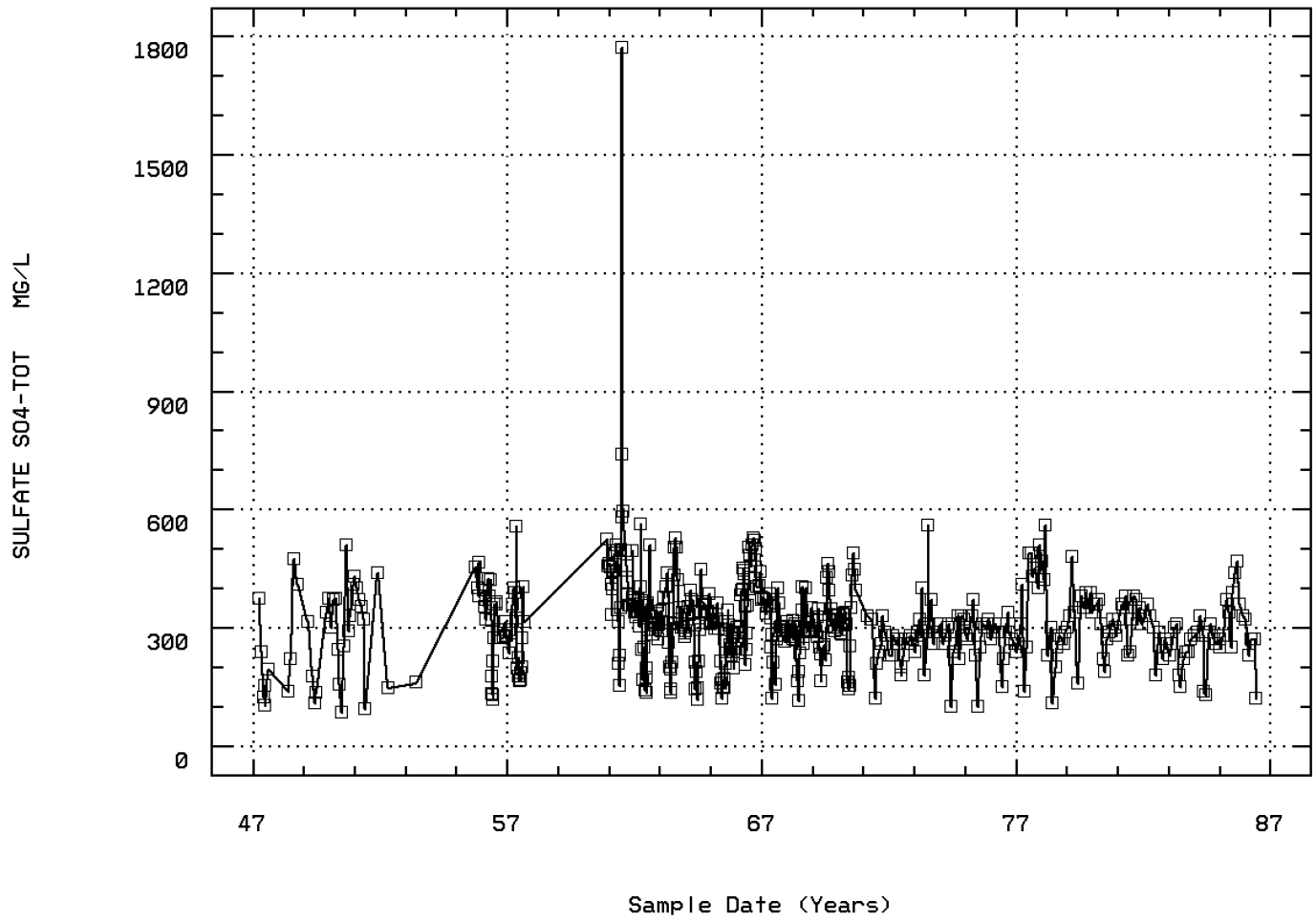
CHLORIDE,TOTAL IN WATER



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00945

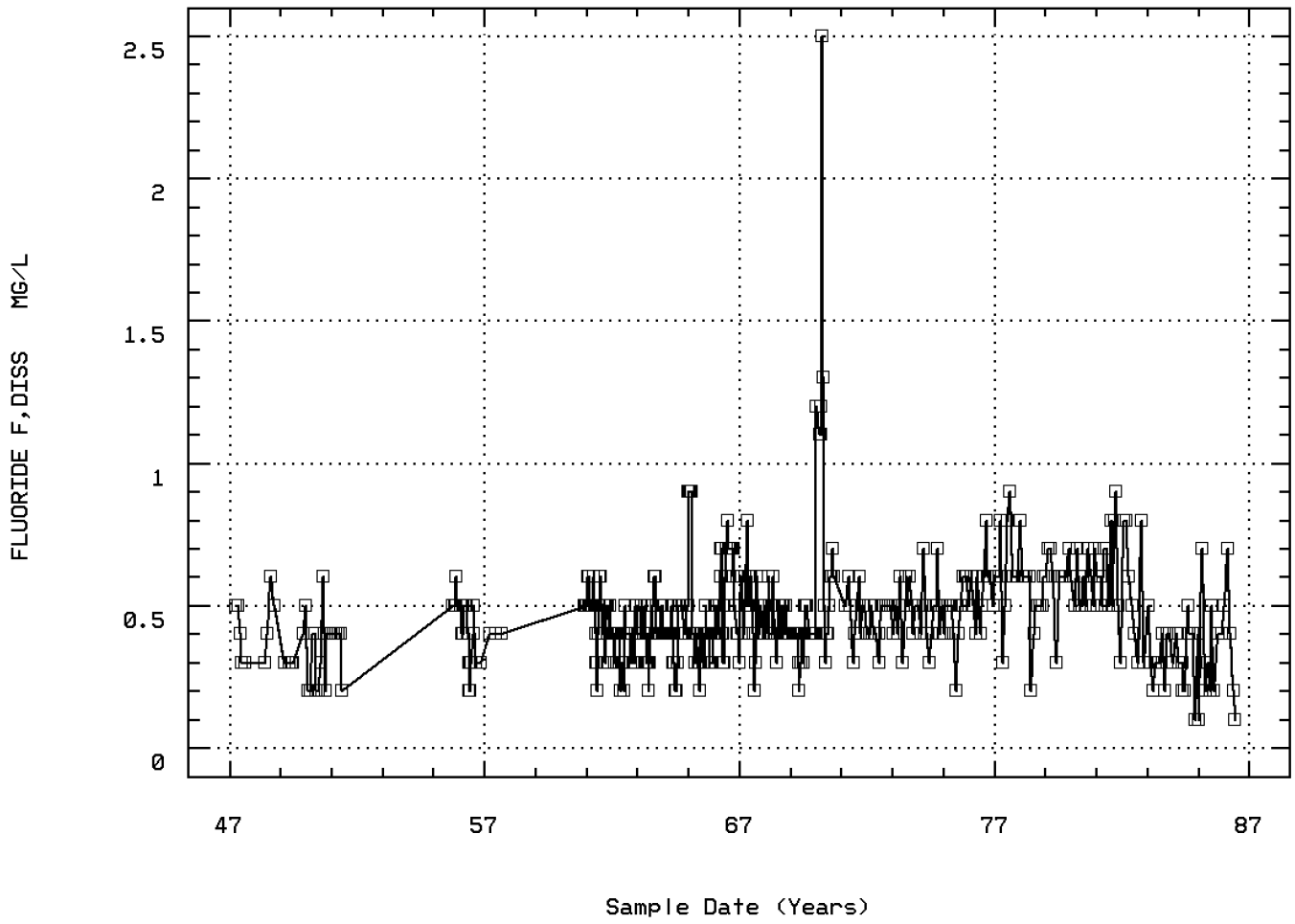
SULFATE, TOTAL (MG/L AS SO4)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00950

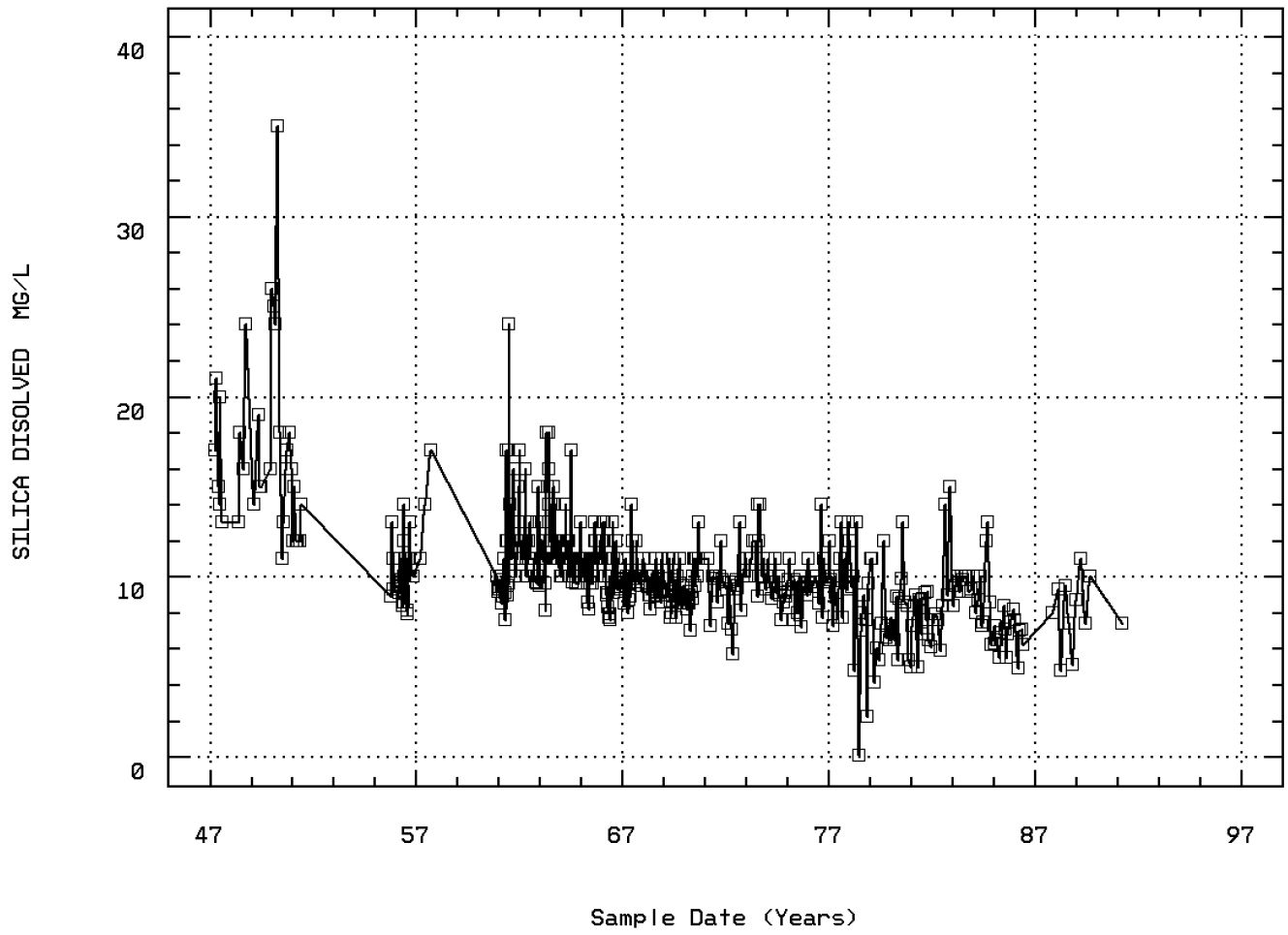
FLUORIDE, DISSOLVED (MG/L AS F)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00955

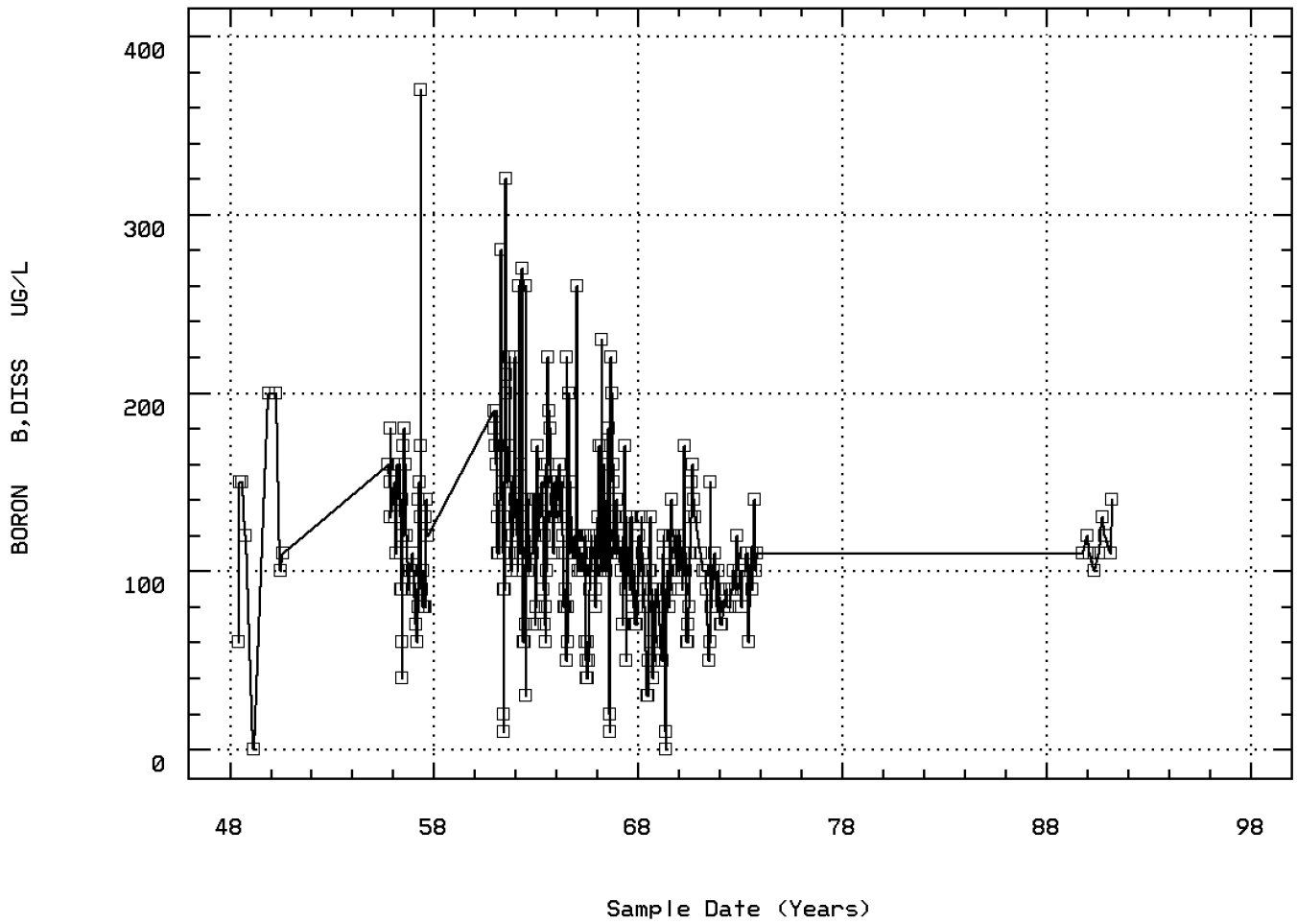
SILICA, DISSOLVED (MG/L AS SI02)



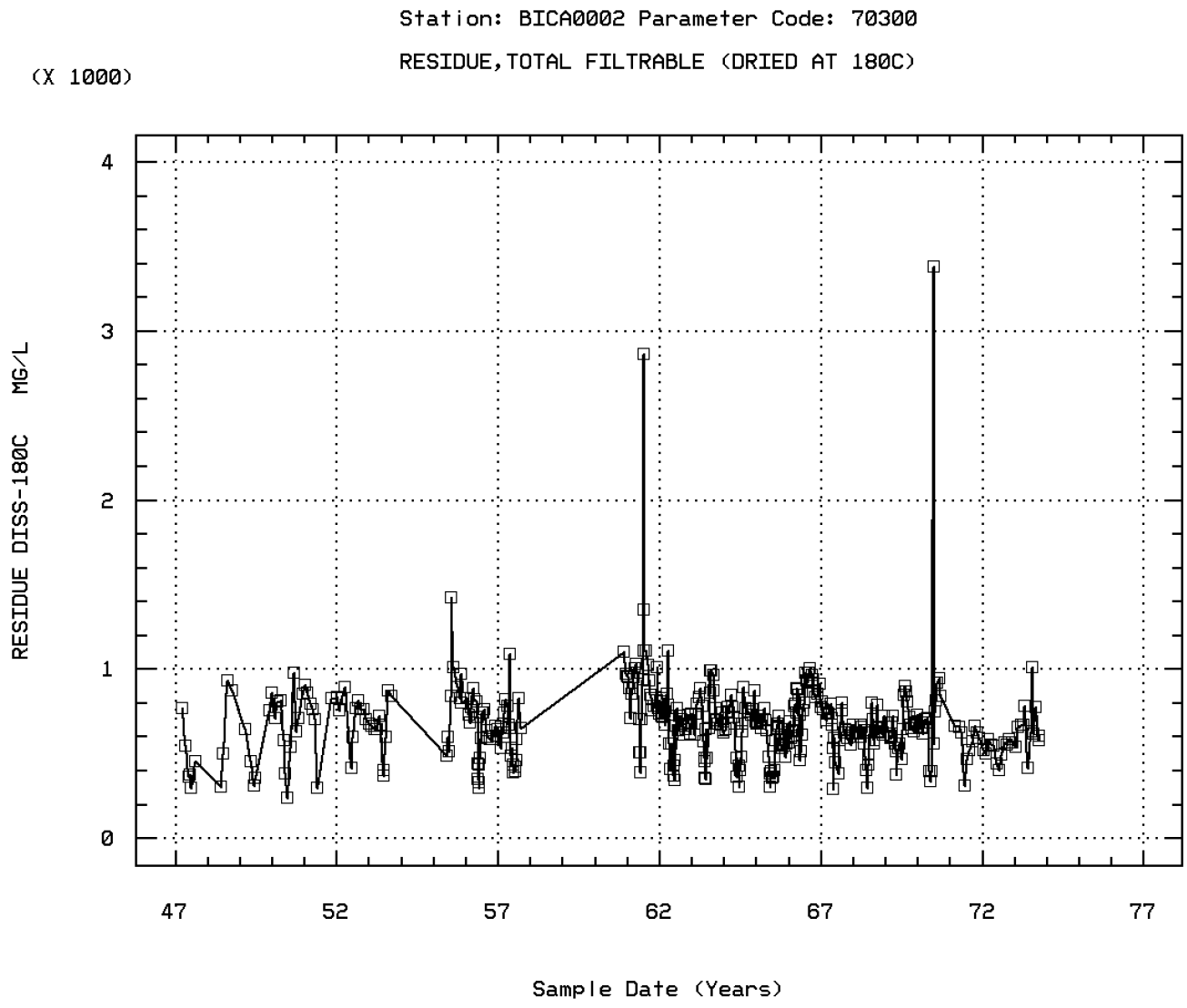
BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 01020

BORON, DISSOLVED (UG/L AS B)



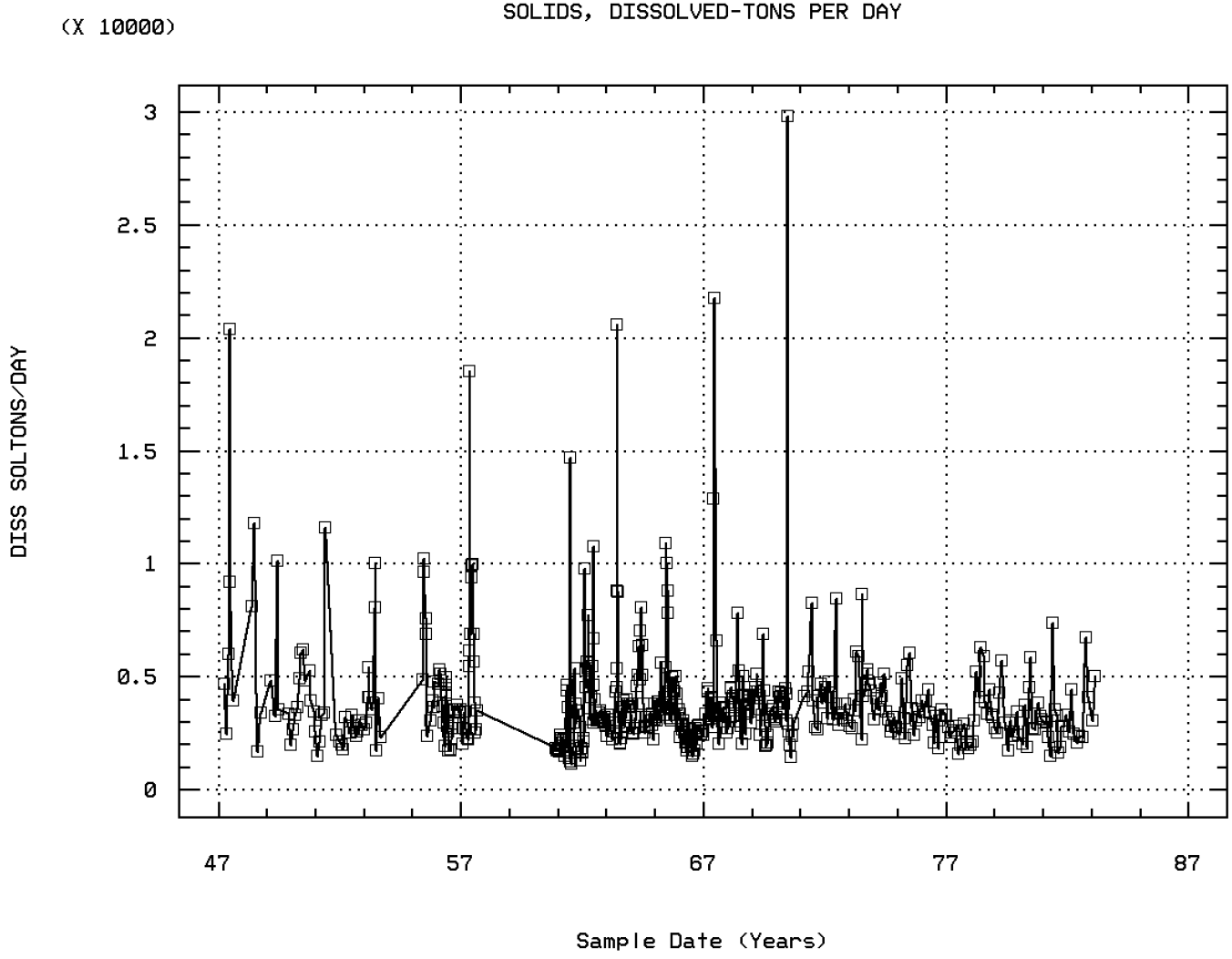
BIGHORN R AT KANE WYO



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70302

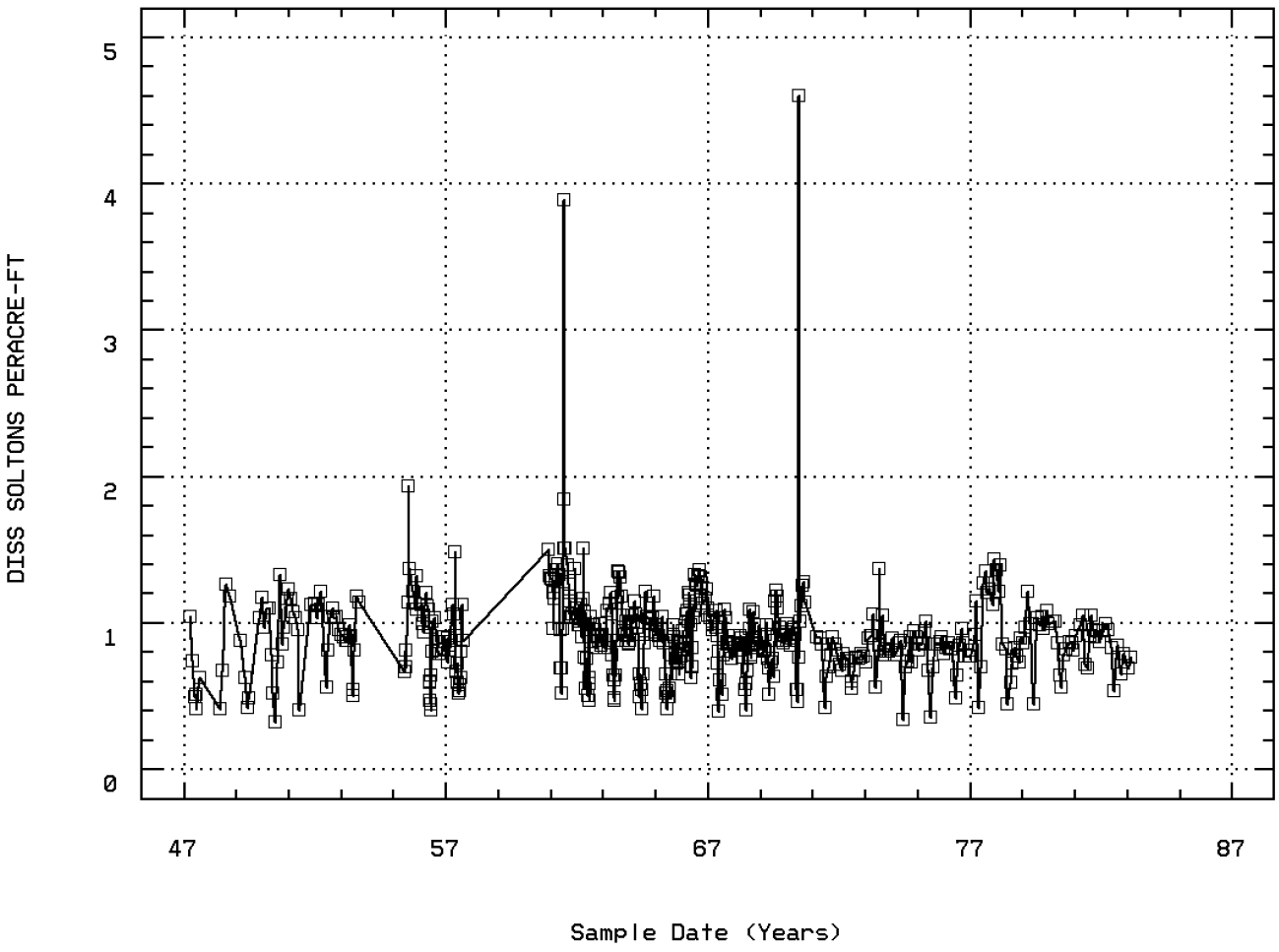
SOLIDS, DISSOLVED-TONS PER DAY



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70303

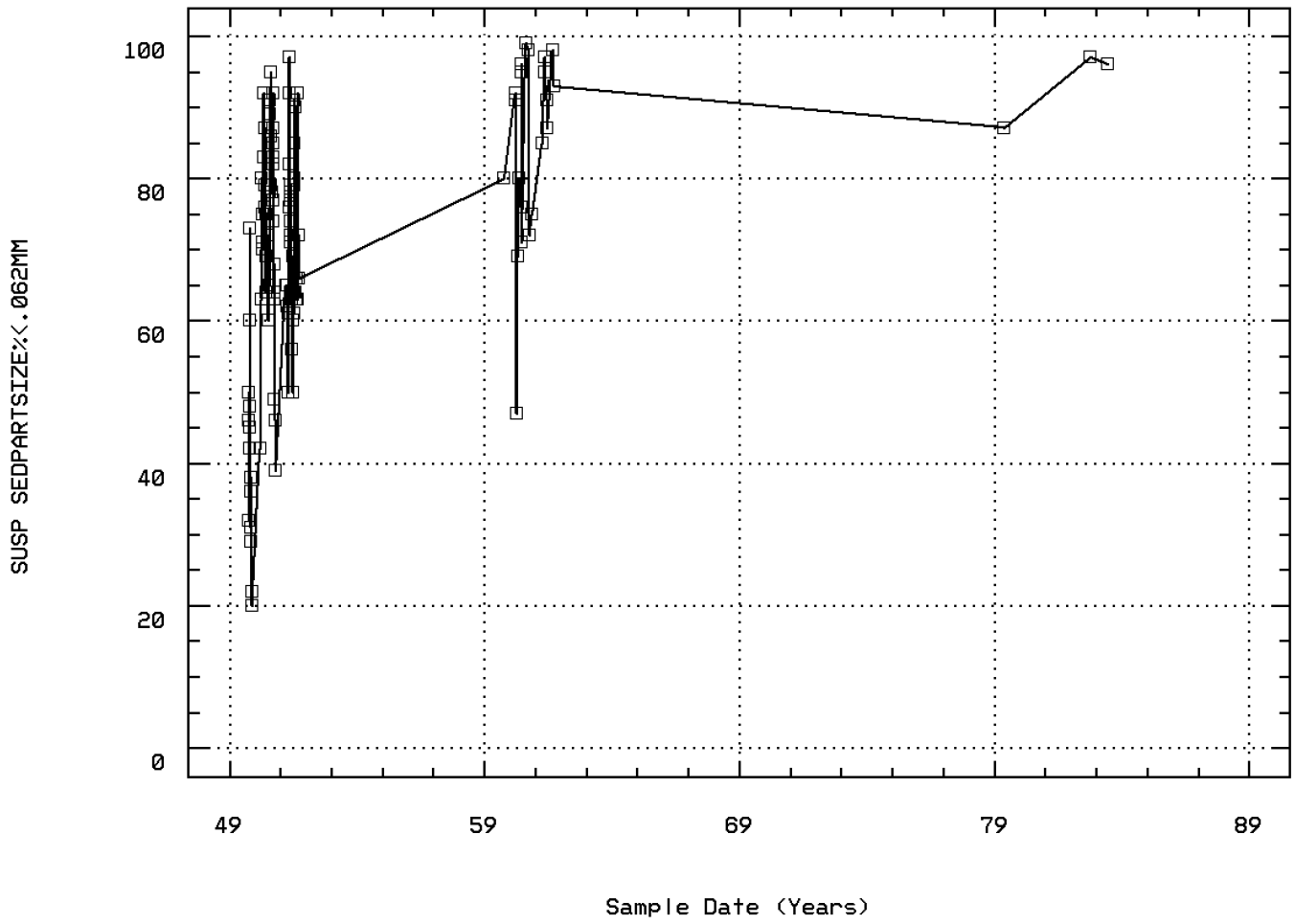
SOLIDS, DISSOLVED-TONS PER ACRE-FT



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70331

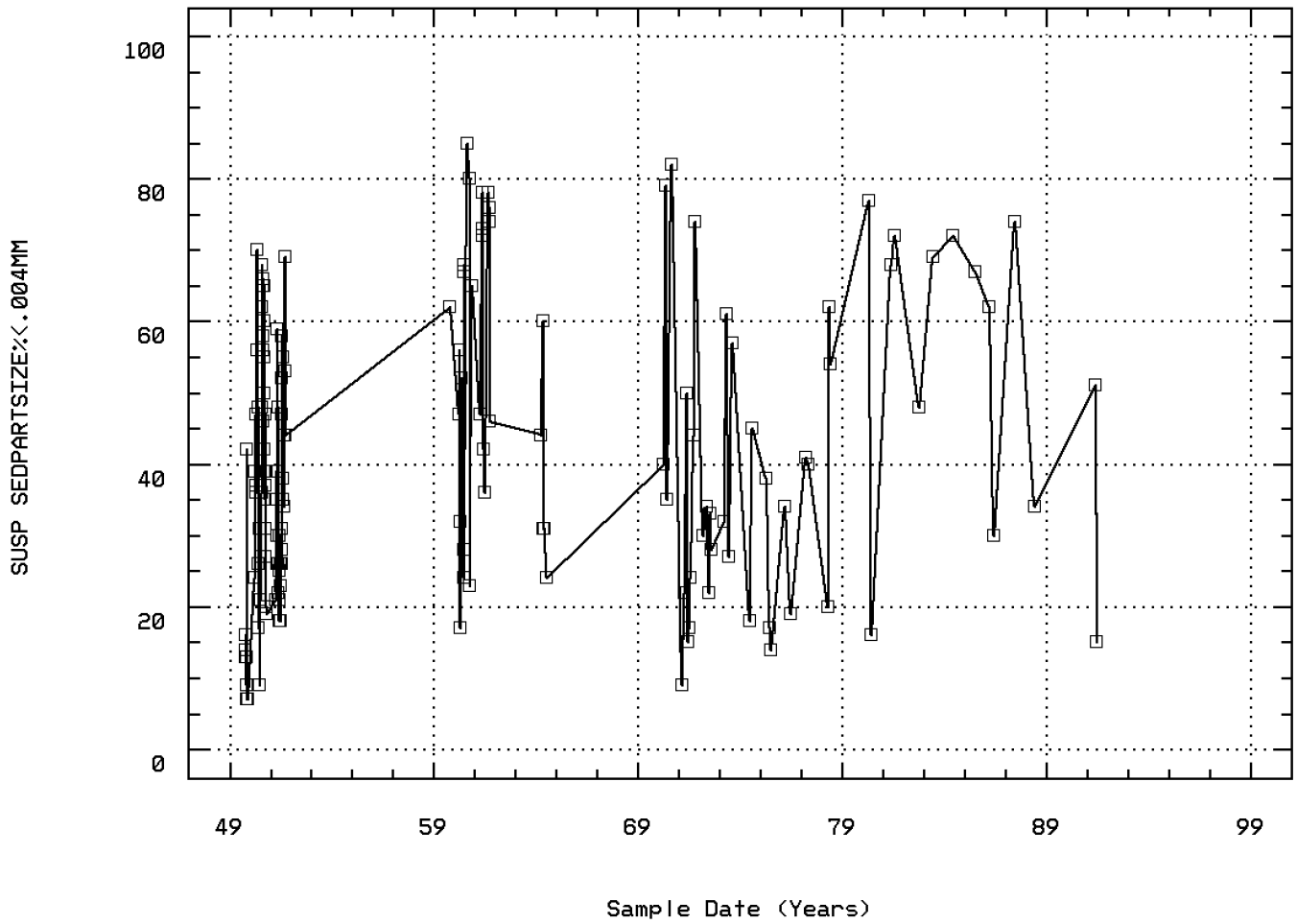
SUSPENDED SED SIEVE DIAMETER,% FINER TH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70338

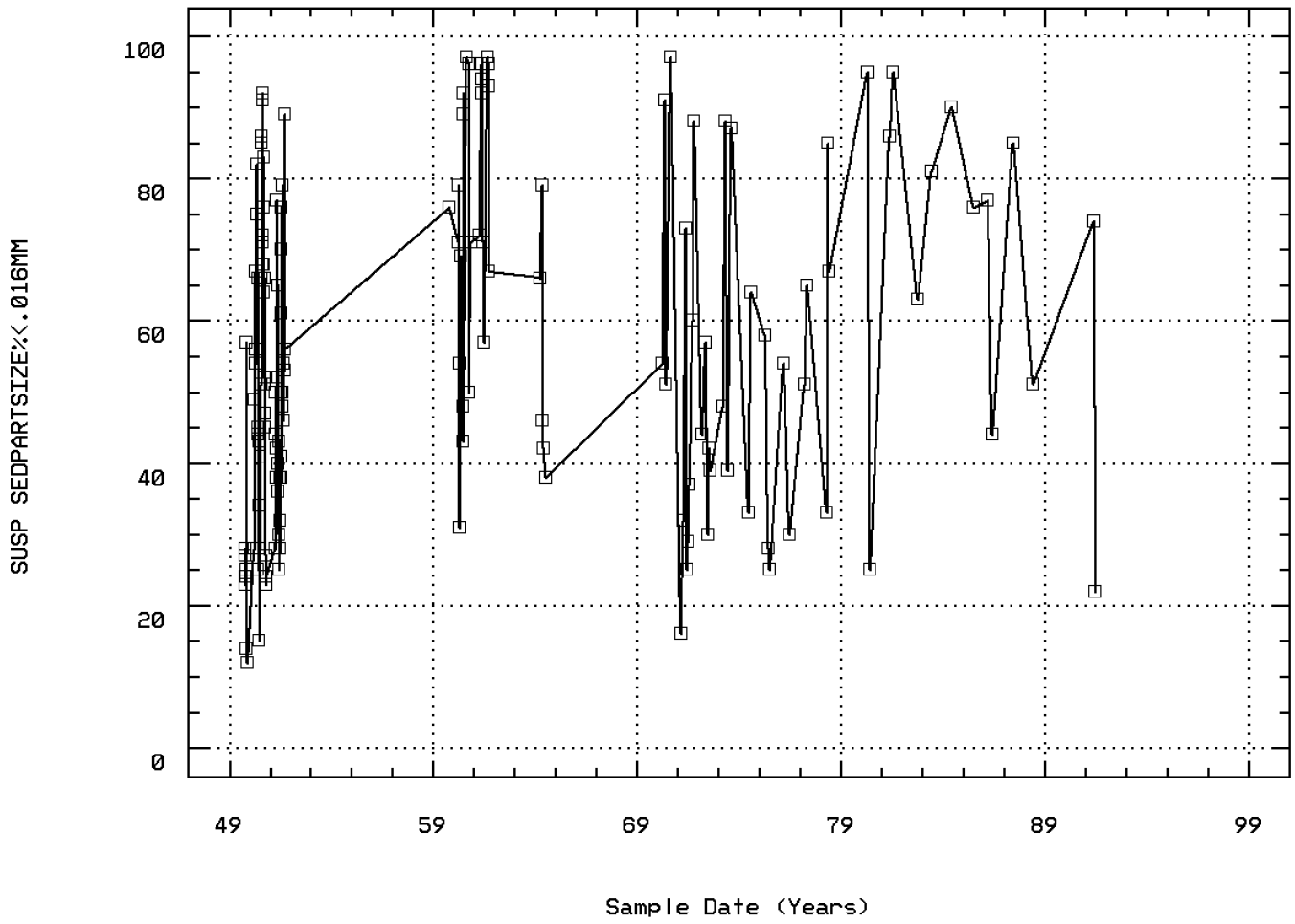
SUS SED FALL DIA(DISTLD WATER)%FINER TH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70340

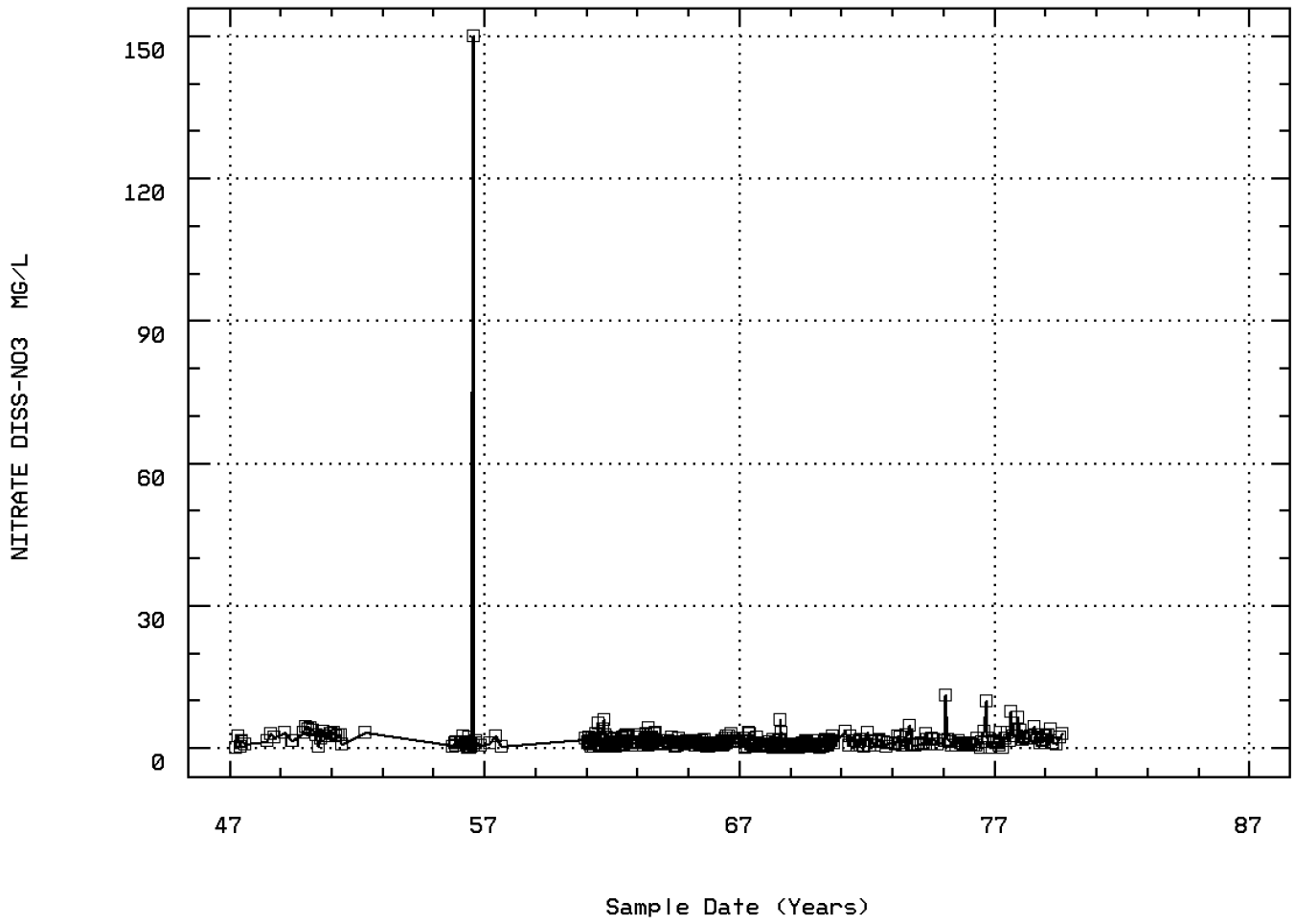
SUS SED FALL DIA(DISTLD WATER)%FINER TH



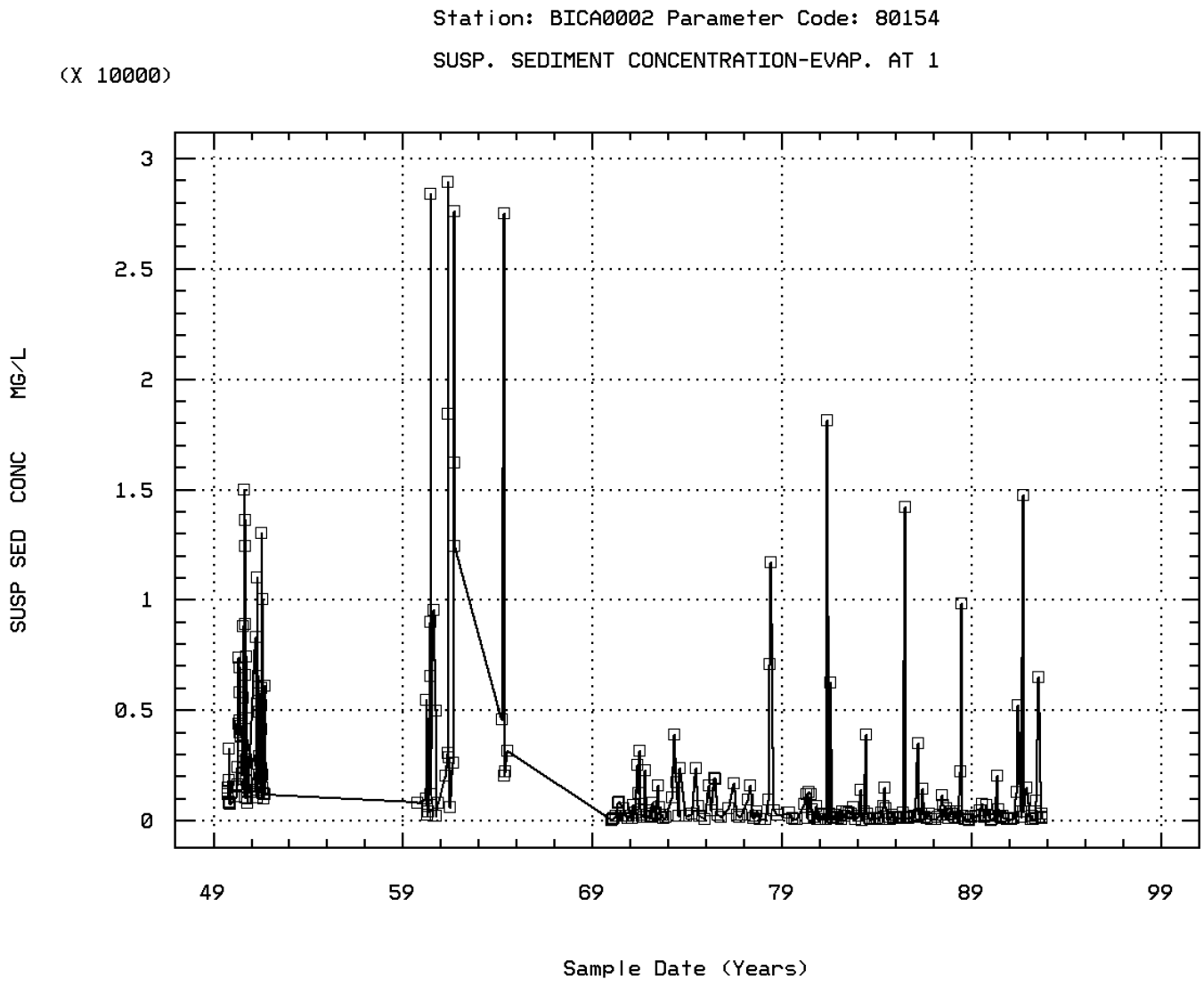
BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 71851

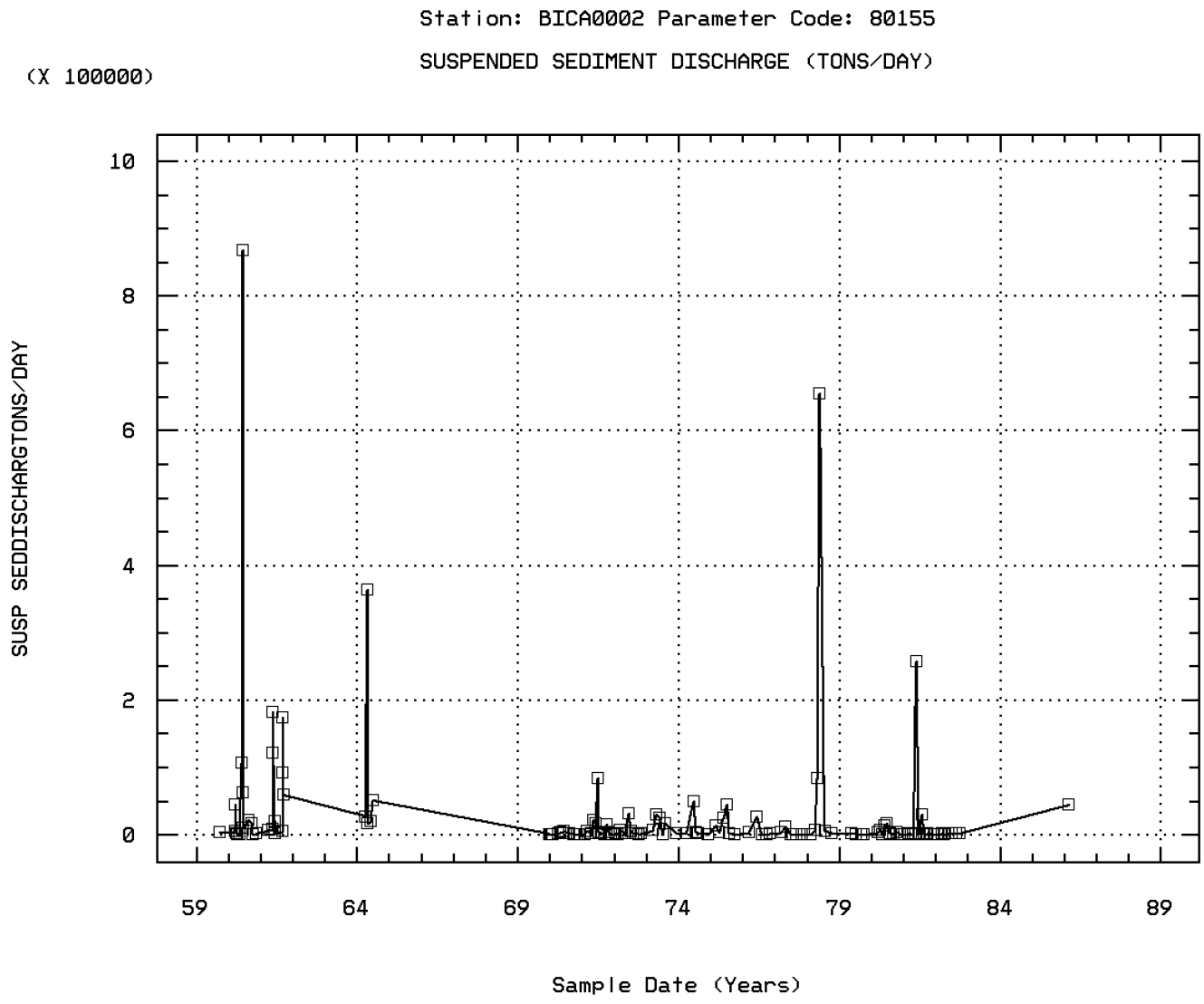
NITRATE NITROGEN, DISSOLVED (MG/L AS NO



BIGHORN R AT KANE WYO



BIGHORN R AT KANE WYO



BIGHORN R AT KANE WYO

Annual Analysis for 1947 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	3	17.	18.	21.	16.	7.	2.646	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	6	4685.	7485.	20200.	1680.	51617510.	7184.533	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	6	571.	619.167	997.	402.	44733.767	211.504	**	**	**	**
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	6	8.15	8.083	8.3	7.8	0.062	0.248	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	6	8.125	8.024	8.3	7.8	0.066	0.257	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	6	0.008	0.009	0.016	0.005	0.	0.005	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/47-09/04/80	6	122.	135.5	186.	115.	801.1	28.304	**	**	**	**
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	6	149.	165.167	227.	140.	1197.767	34.609	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	6	199.	233.5	372.	174.	5981.5	77.34	**	**	**	**
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	6	81.5	98.	186.	56.	2512.4	50.124	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	6	53.5	62.5	98.	49.	369.1	19.212	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	6	16.5	18.833	31.	12.	53.367	7.305	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	6	12.	12.167	19.	6.	18.567	4.309	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	6	174.5	198.333	375.	104.	9899.867	99.498	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	6	0.35	0.383	0.5	0.3	0.01	0.098	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	6	16.	16.667	21.	13.	10.667	3.266	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	6	414.	465.667	766.	298.	28768.667	169.613	**	**	**	**
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	6	5335.	7770.	20400.	2460.	43447680.	6591.485	**	**	**	**
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	6	0.565	0.635	1.04	0.41	0.053	0.229	**	**	**	**
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	6	1.	1.05	2.5	0.	0.863	0.929	**	**	**	**

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

Annual Analysis for 1948 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	4	5135.	5214.5	9920.	668.	23377027.667	4834.98	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	4	919.5	903.75	1350.	426.	166820.25	408.436	**	**	**	**
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	4	7.75	7.725	7.8	7.6	0.009	0.096	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	4	7.747	7.717	7.8	7.6	0.009	0.096	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	4	0.018	0.019	0.025	0.016	0.	0.004	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/47-09/04/80	4	160.	153.5	201.	93.	2486.333	49.863	**	**	**	**
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	4	195.	187.	245.	113.	3715.333	60.954	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	4	298.	304.75	452.	171.	17487.583	132.241	**	**	**	**
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	4	138.	151.25	251.	78.	7094.917	84.231	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	4	77.5	81.75	125.	47.	1219.583	34.923	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	4	25.	24.5	35.	13.	135.	11.619	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	4	15.5	14.75	24.	4.	115.583	10.751	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	4	315.	311.	474.	140.	24630.667	156.942	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	4	0.45	0.45	0.6	0.3	0.017	0.129	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	4	17.	17.75	24.	13.	21.583	4.646	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	4	135.	120.	150.	60.	1800.	42.426	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	4	682.	648.5	928.	302.	89873.	299.788	**	**	**	**
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	4	5735.	6235.	11800.	1670.	21133500.	4597.119	**	**	**	**
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	4	0.925	0.88	1.26	0.41	0.166	0.408	**	**	**	**
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	4	1.95	1.975	3.	1.	0.749	0.866	**	**	**	**

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Annual Analysis for 1949 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	5	2770.	4576.	12100.	1650.	18223280.	4268.873	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/49-04/14/97	15	1900.	1911.333	2370.	1360.	71155.238	266.749	1534.	1730.	2100.	2370.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	5	652.	708.	980.	453.	56841.5	238.415	**	**	**	**

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Annual Analysis for 1949 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	5	7.5	7.46	7.8	7.1	0.073	0.27	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	5	7.5	7.393	7.8	7.1	0.079	0.28	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	5	0.032	0.04	0.079	0.016	0.001	0.025	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/47-09/04/80	5	136.	135.2	192.	105.	1233.7	35.124	**	**	**	**
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	5	166.	164.8	234.	128.	1839.2	42.886	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	5	231.	251.	352.	154.	8819.	93.91	**	**	**	**
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	5	95.	115.8	210.	49.	4575.7	67.644	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	5	63.	64.8	90.	46.	341.7	18.485	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	5	18.	21.7	38.	9.5	152.2	12.337	**	**	**	**
00932p	SODIUM, PERCENT	12/01/49-02/16/83	1	39.	39.	39.	39.	0.	0.	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	5	10.	11.2	19.	5.	29.7	5.45	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	5	178.	215.6	338.	110.	10990.8	104.837	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	5	0.3	0.32	0.4	0.3	0.002	0.045	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	5	15.	15.8	19.	14.	3.7	1.924	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	2	100.	100.	200.	0.	20000.	141.421	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	5	454.	502.6	754.	308.	36597.8	191.306	**	**	**	**
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	5	3530.	5012.	10100.	3250.	8488670.	2913.532	**	**	**	**
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	5	0.62	0.686	1.03	0.42	0.068	0.261	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/01/49-06/06/83	14	40.	40.857	73.	20.	209.055	14.459	21.	30.5	48.5	66.5
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	10/01/49-06/06/83	14	55.5	57.857	90.	38.	262.286	16.195	38.5	43.25	68.25	87.
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	10/01/49-09/19/61	13	90.	88.	100.	70.	99.167	9.958	72.	81.	99.	100.
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	10/01/49-09/19/61	10	96.5	94.	100.	76.	58.222	7.63	76.9	91.75	99.	99.9
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/01/49-06/12/91	9	13.	14.889	42.	7.	113.361	10.647	7.	8.	15.	42.
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/01/49-06/12/91	9	24.	26.	57.	12.	165.5	12.865	12.	18.5	27.5	57.
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	5	1.4	2.08	3.3	1.	1.267	1.126	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/49-09/18/92	14	1240.	1414.143	3240.	734.	710747.363	843.058	734.	794.	1555.	3240.

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Annual Analysis for 1950 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	5	8.3	8.68	11.7	5.6	6.157	2.481	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	14	2565.	3031.	9780.	860.	5679355.538	2383.14	917.	1470.	3562.5	7845.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/49-04/14/97	55	2810.	3351.6	10150.	860.	6397459.467	2529.32	1380.	1650.	3330.	9330.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	12	992.5	938.417	1390.	355.	82672.447	287.528	414.7	791.25	1152.5	1333.
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	12	7.85	7.808	8.1	7.5	0.032	0.178	7.53	7.625	7.9	8.07
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	12	7.847	7.774	8.1	7.5	0.033	0.182	7.53	7.625	7.9	8.07
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	12	0.014	0.017	0.032	0.008	0.	0.007	0.009	0.013	0.024	0.03
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/47-09/04/80	12	169.	163.333	233.	89.	1608.97	40.112	95.9	130.75	191.25	221.3
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	12	206.	199.	284.	108.	2395.273	48.942	116.4	159.5	233.	269.6
00445p	CARBONATE ION (MG/L AS CO3)	10/03/50-12/17/81	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	12	343.5	314.583	440.	119.	9378.811	96.844	138.5	250.5	384.5	434.6
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	12	157.	151.25	230.	30.	3687.295	60.723	42.6	113.25	206.75	224.3
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	12	88.5	83.417	118.	35.	568.629	23.846	40.1	68.5	97.5	116.2
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	12	28.	25.892	39.	7.7	97.614	9.88	9.29	17.75	33.75	38.4
00932p	SODIUM, PERCENT	12/01/49-02/16/83	12	39.	38.25	45.	33.	10.568	3.251	33.3	36.	40.	43.5
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	12	17.5	16.167	25.	5.	34.152	5.844	5.6	12.75	19.75	24.1
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	12	315.	308.75	510.	85.	13123.295	114.557	106.6	246.75	375.	480.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	12	0.35	0.333	0.6	0.2	0.019	0.137	0.2	0.2	0.4	0.57
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	12	18.	19.75	35.	11.	44.023	6.635	11.6	16.	24.75	32.3
01020p	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	3	110.	136.667	200.	100.	3033.333	55.076	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	12	710.	673.25	975.	234.	45936.568	214.328	277.8	548.5	842.	939.9
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	11	3910.	4196.364	6180.	1990.	1838725.455	1355.996	2122.	3310.	5240.	6156.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	12	0.97	0.917	1.33	0.32	0.085	0.292	0.38	0.742	1.145	1.282
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/01/49-06/06/83	46	77.5	74.957	95.	39.	178.043	13.343	56.7	68.75	83.5	92.
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	10/01/49-06/06/83	32	87.5	84.156	96.	52.	96.523	9.825	67.3	81.75	90.	92.

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Annual Analysis for 1950 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	10/01/49-09/19/61	32	99.	97.344	100.	84.	11.007	3.318	93.3	97.	99.	100.
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	10/01/49-09/19/61	28	100.	99.571	100.	91.	2.995	1.731	98.9	100.	100.	100.
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/01/49-06/12/91	38	39.	41.237	70.	9.	274.078	16.555	19.9	26.75	56.	65.1
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/01/49-06/12/91	39	54.	55.872	92.	15.	433.641	20.824	25.	43.	71.	85.
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	12	2.85	2.8	4.4	0.3	1.558	1.248	0.51	2.175	3.925	4.31
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/49-09/18/92	46	3910.	4754.087	15000.	788.	13209430.57	3634.478	1259.	2122.5	6670.	9929.

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Annual Analysis for 1951 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	30	16.7	15.69	25.	5.	27.908	5.283	8.3	11.925	19.175	22.15
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	11	1600.	3060.	14500.	650.	17553980.	4189.747	720.	1050.	2060.	13020.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/49-04/14/97	44	5080.	5377.955	14500.	1330.	14831095.719	3851.116	1550.	1822.5	7755.	10500.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	11	1120.	982.818	1280.	444.	81199.764	284.956	445.8	866.	1150.	1258.
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	7	7.8	7.843	8.3	7.5	0.07	0.264	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	7	7.8	7.78	8.3	7.5	0.074	0.272	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	7	0.016	0.017	0.032	0.005	0.	0.009	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/47-09/04/80	7	198.	190.143	226.	126.	1252.476	35.39	**	**	**	**
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	7	242.	230.286	275.	154.	1725.571	41.54	**	**	**	**
00445p	CARBONATE ION (MG/L AS CO3)	10/03/50-12/17/81	6	0.	1.	6.	0.	6.	2.449	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	10	356.5	328.6	445.	154.	10708.711	103.483	154.2	244.5	405.5	443.3
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	7	177.	166.857	224.	30.	4082.143	63.892	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	7	91.	91.714	123.	46.	599.905	24.493	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	7	34.	31.429	42.	10.	104.619	10.228	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	1	99.	99.	99.	99.	0.	0.	**	**	**	**
00932p	SODIUM, PERCENT	12/01/49-02/16/83	6	37.	36.333	38.	33.	3.067	1.751	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	7	19.	18.286	24.	6.	35.238	5.936	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	7	370.	344.	440.	95.	13847.	117.673	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	6	0.4	0.367	0.4	0.2	0.007	0.082	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	6	12.	12.833	15.	12.	1.767	1.329	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	7	790.	732.714	906.	296.	41598.238	203.956	**	**	**	**
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	7	2570.	3840.	11600.	1500.	12131866.667	3483.083	**	**	**	**
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	7	1.07	0.994	1.23	0.4	0.077	0.277	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/01/49-06/06/83	38	72.	72.342	97.	50.	136.664	11.69	59.6	63.	80.	91.1
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	10/01/49-06/06/83	28	81.	82.964	97.	66.	63.813	7.988	70.6	79.	90.	93.1
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	10/01/49-09/19/61	28	97.	96.964	99.	91.	3.221	1.795	94.9	96.	98.	99.
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	10/01/49-09/19/61	28	100.	99.893	100.	98.	0.173	0.416	99.9	100.	100.	100.
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/01/49-06/12/91	31	34.	36.129	69.	18.	185.783	13.63	21.	26.	47.	57.4
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/01/49-06/12/91	31	46.	48.677	89.	25.	273.959	16.552	28.4	38.	56.	76.8
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	6	2.6	2.4	3.1	0.7	0.764	0.874	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/49-09/18/92	38	3520.	4273.368	13000.	968.	9981515.482	3159.354	1169.	1615.	5812.5	10100.

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Annual Analysis for 1952 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	12	1315.	1612.	4380.	804.	949117.091	974.226	844.8	995.	1905.	3750.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	12	1070.	999.25	1210.	547.	48332.386	219.846	563.8	883.75	1155.	1195.
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/47-09/04/80	1	125.	125.	125.	125.	0.	0.	**	**	**	**

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

Annual Analysis for 1952 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	1	153.	153.	153.	153.	0.	0.	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	1	204.	204.	204.	204.	0.	0.	**	**	**	**
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	1	79.	79.	79.	79.	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	1	56.	56.	56.	56.	0.	0.	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	10	96.5	95.6	114.	71.	163.6	12.791	72.4	85.75	104.75	113.6
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	1	147.	147.	147.	147.	0.	0.	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	11	762.	736.455	890.	410.	17675.473	132.949	446.6	699.	824.	878.2
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	11	2560.	2577.273	3270.	1790.	244561.818	494.532	1828.	2110.	3050.	3260.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	11	1.04	1.002	1.21	0.56	0.032	0.18	0.61	0.95	1.12	1.194
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	1	3.3	3.3	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 box-and-whisker plot

Annual Analysis for 1953 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	13	2120.	3037.692	9260.	1020.	6916735.897	2629.969	1040.	1550.	3250.	8836.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	13	945.	900.538	1220.	526.	45601.436	213.545	546.4	737.5	999.5	1204.
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	5	7.5	7.5	7.9	7.	0.105	0.324	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	5	7.5	7.396	7.9	7.	0.119	0.344	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	5	0.032	0.04	0.1	0.013	0.001	0.034	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/47-09/04/80	1	118.	118.	118.	118.	0.	0.	**	**	**	**
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	1	144.	144.	144.	144.	0.	0.	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	5	240.	248.8	304.	197.	2536.7	50.366	**	**	**	**
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	1	87.	87.	87.	87.	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	5	75.	70.4	81.	58.	122.8	11.082	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	5	15.	18.	25.	12.	42.	6.481	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	12	87.5	85.75	129.	35.	812.568	28.506	35.	76.5	100.	127.2
00931p	SODIUM ADSORPTION RATIO	03/11/53-02/16/83	4	1.65	1.675	2.4	1.	0.529	0.727	**	**	**	**
00932p	SODIUM, PERCENT	12/01/49-02/16/83	4	33.5	33.	41.	24.	68.667	8.287	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/11/53-06/06/86	4	3.65	3.7	4.7	2.8	0.647	0.804	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	1	162.	162.	162.	162.	0.	0.	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	12	662.	645.417	868.	364.	21518.992	146.694	374.8	609.	709.	859.6
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	12	3915.	4386.667	10000.	1730.	5813278.788	2411.074	1904.	2717.5	5087.5	9418.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	12	0.9	0.878	1.18	0.5	0.04	0.199	0.512	0.828	0.965	1.168

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

Annual Analysis for 1955 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	10	1996.5	2966.3	6950.	874.	4587626.011	2141.874	913.2	1355.25	4387.5	6891.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	10	1170.	1083.4	1370.	700.	57930.044	240.687	704.9	798.5	1260.	1365.
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	4	7.9	7.875	8.	7.7	0.016	0.126	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	4	7.9	7.861	8.	7.7	0.016	0.127	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	4	0.013	0.014	0.02	0.01	0.	0.004	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/47-09/04/80	4	188.	191.25	213.	176.	244.917	15.65	**	**	**	**
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	4	229.5	233.25	260.	214.	375.583	19.38	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	10	350.	346.8	432.	234.	4619.733	67.969	235.	295.	409.5	430.8
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	4	204.	198.5	216.	170.	399.	19.975	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	10	97.	105.8	217.	67.	1808.178	42.523	67.1	83.	112.75	207.1
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	10	30.5	29.2	44.	16.	71.733	8.47	16.2	21.	34.25	43.1

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Annual Analysis for 1955 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	10	119.5	108.7	141.	54.	1228.9	35.056	54.7	64.	139.25	140.9
00931p	SODIUM ADSORPTION RATIO	03/11/53-02/16/83	10	2.6	2.39	3.1	1.3	0.359	0.599	1.34	1.775	2.9	3.08
00932p	SODIUM, PERCENT	12/01/49-02/16/83	10	40.	37.7	45.	27.	30.678	5.539	27.3	34.5	41.	44.6
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/11/53-06/06/86	10	4.15	4.58	8.	3.	2.226	1.492	3.04	3.4	5.425	7.75
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	4	21.5	22.	25.	20.	4.667	2.16	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	4	427.5	425.	465.	380.	1716.667	41.433	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	4	0.5	0.525	0.6	0.5	0.002	0.05	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	4	10.15	10.55	13.	8.9	3.497	1.87	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	4	155.	155.	180.	130.	433.333	20.817	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	10	834.	834.9	1420.	483.	75582.989	274.924	486.1	574.	980.	1379.
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	10	4810.	5691.	10200.	2380.	7529587.778	2744.009	2446.	3482.5	8097.5	10145.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	10	1.135	1.136	1.93	0.66	0.139	0.373	0.664	0.783	1.333	1.874
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	4	0.7	0.75	1.3	0.3	0.197	0.443	**	**	**	**

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

Annual Analysis for 1956 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	24	2105.5	2267.625	4576.	860.	1210683.462	1100.311	872.	1558.25	2753.25	4078.5
00080	COLOR (PLATINUM-COBALT UNITS)	11/01/56-11/19/69	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	24	935.5	904.167	1220.	460.	47967.71	219.015	518.5	737.75	1080.	1155.
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	24	7.8	7.8	8.1	7.5	0.027	0.164	7.6	7.625	7.9	8.05
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	24	7.8	7.771	8.1	7.5	0.028	0.167	7.6	7.625	7.9	8.05
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	24	0.016	0.017	0.032	0.008	0.	0.006	0.009	0.013	0.024	0.025
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/47-09/04/80	23	157.	156.522	192.	100.	478.806	21.882	124.6	148.	172.	186.
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	24	191.5	187.708	234.	116.	916.998	30.282	135.	175.5	209.5	225.5
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	24	303.	294.125	392.	152.	4276.897	65.398	184.	254.	338.5	374.
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	24	136.5	136.	213.	57.	1927.826	43.907	69.	100.	168.5	197.5
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	24	80.	77.333	96.	43.	219.449	14.814	55.	64.5	91.	95.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	24	26.5	23.675	38.	0.2	84.344	9.184	11.	15.75	29.	34.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	24	87.	82.292	120.	30.	764.303	27.646	33.5	62.75	105.75	111.
00931p	SODIUM ADSORPTION RATIO	03/11/53-02/16/83	24	2.25	2.067	2.7	1.	0.285	0.534	1.1	1.75	2.5	2.6
00932p	SODIUM, PERCENT	12/01/49-02/16/83	24	38.	37.	46.	27.	23.217	4.818	28.5	35.	40.75	41.5
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/11/53-06/06/86	21	3.6	3.257	4.5	1.2	1.064	1.031	1.46	2.35	4.05	4.46
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	24	16.	14.708	22.	4.	30.824	5.552	6.	10.75	19.5	21.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	24	305.	292.792	425.	117.	8473.389	92.051	131.	229.5	363.75	407.5
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	21	0.3	0.352	0.5	0.2	0.012	0.108	0.2	0.3	0.45	0.5
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	21	10.	10.381	14.	7.9	3.08	1.755	8.16	9.15	11.	13.8
01020p	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	24	120.	122.5	180.	40.	1219.565	34.922	75.	100.	157.5	165.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	24	650.5	626.208	882.	292.	28097.911	167.624	335.5	498.5	753.75	822.
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	24	3465.	3449.583	5320.	1710.	1172360.688	1082.756	1765.	2735.	4297.5	5035.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	24	0.885	0.851	1.2	0.4	0.052	0.227	0.455	0.678	1.025	1.115
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	20	0.85	8.385	150.	0.	1111.647	33.341	0.01	0.325	1.525	2.49

** - Less than 9 observations ## - Computed with 50% or 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 BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	20	2540.	3612.5	9610.	1020.	6860777.632	2619.309	1065.	1430.	5850.	7881.
00080	COLOR (PLATINUM-COBALT UNITS)	11/01/56-11/19/69	2	6.5	6.5	10.	3.	24.5	4.95	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	20	874.	881.55	1430.	588.	48227.839	219.608	593.1	698.75	1036.25	1158.
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	20	7.65	7.655	8.2	6.9	0.084	0.289	7.4	7.5	7.8	8.09
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	20	7.647	7.553	8.2	6.9	0.095	0.308	7.4	7.5	7.8	8.09

** - 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 1957 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	20	0.023	0.028	0.126	0.006	0.001	0.025	0.008	0.016	0.032	0.04
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/47-09/04/80	20	157.	158.7	246.	118.	905.484	30.091	124.3	133.75	179.75	191.3
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	20	192.	193.6	300.	144.	1348.147	36.717	151.4	163.	219.5	233.2
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	20	287.5	289.75	524.	191.	6558.513	80.985	194.5	224.	341.75	383.
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	20	129.5	131.05	278.	69.	2693.524	51.899	73.7	87.	166.	191.7
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	20	74.	77.65	168.	52.	635.292	25.205	53.4	61.	85.	98.6
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	20	22.5	23.4	42.	15.	56.674	7.528	15.1	17.	28.5	34.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	20	75.	77.68	124.	14.6	751.711	27.417	49.1	59.25	98.	117.
00931p	SODIUM ADSORPTION RATIO	03/11/53-02/16/83	20	2.	2.	2.8	0.3	0.321	0.567	1.51	1.65	2.525	2.69
00932p	SODIUM, PERCENT	12/01/49-02/16/83	20	38.	36.75	43.	6.	58.408	7.643	34.1	36.	40.	42.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/11/53-06/06/86	3	3.9	4.067	4.7	3.6	0.323	0.569	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	20	14.	13.25	20.	7.	15.355	3.919	8.1	9.	15.	19.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	20	282.5	287.75	556.	165.	10055.145	100.275	169.	198.25	351.	404.5
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	3	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	3	14.	14.	17.	11.	9.	3.	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	20	95.	117.	370.	60.	4474.737	66.893	71.	80.	137.5	168.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	20	631.	618.3	1090.	385.	30926.537	175.859	395.	466.25	720.25	822.8
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	20	3695.	5507.5	18500.	2020.	16263230.263	4032.77	2215.	2670.	6890.	9984.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	20	0.855	0.84	1.48	0.52	0.058	0.24	0.534	0.63	0.978	1.12
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	3	0.9	1.167	2.4	0.2	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 box-and-whisker plot

Annual Analysis for 1959 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	1	10.6	10.6	10.6	10.6	0.	0.	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	1	1300.	1300.	1300.	1300.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/49-04/14/97	1	1300.	1300.	1300.	1300.	0.	0.	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/01/49-06/06/83	1	80.	80.	80.	80.	0.	0.	**	**	**	**
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	10/01/49-06/06/83	1	86.	86.	86.	86.	0.	0.	**	**	**	**
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	10/01/49-09/19/61	1	97.	97.	97.	97.	0.	0.	**	**	**	**
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	10/01/49-09/19/61	1	100.	100.	100.	100.	0.	0.	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/01/49-06/12/91	1	62.	62.	62.	62.	0.	0.	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/01/49-06/12/91	1	76.	76.	76.	76.	0.	0.	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/49-09/18/92	1	805.	805.	805.	805.	0.	0.	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/59-02/26/86	1	2830.	2830.	2830.	2830.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	12	15.3	14.308	22.2	1.7	46.004	6.783	2.03	11.	20.3	21.87
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	15	1190.	2305.667	11300.	609.	7718816.952	2778.276	633.	748.	3160.	7148.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/49-04/14/97	13	1210.	2563.615	11300.	724.	8464602.256	2909.399	733.6	808.	3340.	8532.
00080	COLOR (PLATINUM-COBALT UNITS)	11/01/56-11/19/69	2	7.5	7.5	8.	7.	0.5	0.707	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	2	1370.	1370.	1440.	1300.	9800.	98.995	**	**	**	**
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	2	7.75	7.75	7.9	7.6	0.045	0.212	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	2	7.725	7.725	7.9	7.6	0.046	0.215	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	2	0.019	0.019	0.025	0.013	0.	0.009	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/47-09/04/80	1	249.	249.	249.	249.	0.	0.	**	**	**	**
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	2	289.5	289.5	303.	276.	364.5	19.092	**	**	**	**
00445p	CARBONATE ION (MG/L AS CO3)	10/03/50-12/17/81	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	2	489.	489.	521.	457.	2048.	45.255	**	**	**	**

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Annual Analysis for 1960 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	2	252.	252.	273.	231.	882.	29.698	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	2	133.	133.	141.	125.	128.	11.314	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	2	38.	38.	41.	35.	18.	4.243	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	2	125.	125.	132.	118.	98.	9.899	**	**	**	**
00931p	SODIUM ADSORPTION RATIO	03/11/53-02/16/83	2	2.45	2.45	2.5	2.4	0.005	0.071	**	**	**	**
00932p	SODIUM, PERCENT	12/01/49-02/16/83	1	35.	35.	35.	35.	0.	0.	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/11/53-06/06/86	2	5.75	5.75	6.	5.5	0.125	0.354	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	2	25.	25.	26.	24.	2.	1.414	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	2	491.	491.	525.	457.	2312.	48.083	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	2	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	2	9.6	9.6	10.	9.2	0.32	0.566	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	2	185.	185.	190.	180.	50.	7.071	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	2	1036.	1036.	1100.	972.	8192.	90.51	**	**	**	**
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	2	1755.005	1755.005	1810.	1700.01	6048.9	77.775	**	**	**	**
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	2	1.41	1.41	1.5	1.32	0.016	0.127	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/01/49-06/06/83	13	80.	81.615	99.	47.	232.756	15.256	55.8	71.5	95.5	98.6
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	10/01/49-06/06/83	13	85.	86.231	100.	56.	164.026	12.807	63.6	78.	97.5	99.6
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	10/01/49-09/19/61	12	98.5	97.083	100.	92.	8.992	2.999	92.3	94.	99.75	100.
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	10/01/49-09/19/61	9	100.	99.889	100.	99.	0.111	0.333	99.	100.	100.	100.
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/01/49-06/12/91	13	52.	49.538	85.	17.	525.936	22.933	19.4	26.	67.5	83.
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/01/49-06/12/91	13	71.	68.462	97.	31.	474.436	21.782	35.8	49.	90.5	96.6
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	2	1.55	1.55	2.1	1.	0.605	0.778	**	**	**	**
71885	IRON (UG/L AS FE)	12/18/60-05/04/67	1	10.	10.	10.	10.	0.	0.	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/49-09/18/92	13	1160.	5250.846	28400.	205.	60033761.141	7748.146	217.	519.5	7755.	20860.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/59-02/26/86	13	9900.	87391.154	867000.	459.55	856316567.474	236339.41	465.4	1250.5	53200.	562600.

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Annual Analysis for 1961 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	10	16.95	15.49	22.2	7.2	26.005	5.1	7.48	10.825	19.15	22.15
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	39	1210.	1404.051	3485.	370.	673985.524	820.966	534.	724.	2090.	2510.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/49-04/14/97	10	1925.	1765.	2510.	660.	444627.778	666.804	703.	1180.	2355.	2502.
00080	COLOR (PLATINUM-COBALT UNITS)	11/01/56-11/19/69	28	5.	4.893	12.	0.	7.21	2.685	0.	3.25	6.	8.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	29	1240.	1252.862	3030.	577.	175869.98	419.369	729.	1070.	1355.	1490.
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	29	7.7	7.645	8.1	7.1	0.041	0.203	7.4	7.5	7.8	7.9
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	29	7.7	7.596	8.1	7.1	0.044	0.209	7.4	7.5	7.8	7.9
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	29	0.02	0.025	0.079	0.008	0.	0.014	0.013	0.016	0.032	0.04
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	29	232.	227.966	283.	163.	997.32	31.58	180.	209.5	249.	276.
00445p	CARBONATE ION (MG/L AS CO3)	10/03/50-12/17/81	29	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	29	396.	426.172	1450.	214.	44388.791	210.686	262.	351.	446.	465.
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	29	214.	239.069	1280.	80.	43109.138	207.627	114.	166.5	239.	260.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	29	105.	117.034	482.	63.	5373.463	73.304	78.	93.	114.5	128.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	29	34.	32.655	60.	14.	84.163	9.174	18.	27.	38.	43.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	29	123.	126.138	281.	40.	2061.766	45.407	62.	103.	148.	171.
00931p	SODIUM ADSORPTION RATIO	03/11/53-02/16/83	29	2.6	2.638	3.5	1.2	0.341	0.584	1.7	2.35	3.1	3.4
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/11/53-06/06/86	29	4.8	5.159	13.	2.	4.775	2.185	2.9	3.7	5.6	8.3
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	29	22.	19.69	30.	5.	38.722	6.223	8.	16.	25.	26.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	29	442.	468.138	1770.	154.	76662.552	276.88	229.	356.5	495.5	595.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	29	0.5	0.469	0.6	0.2	0.01	0.1	0.3	0.4	0.5	0.6
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	29	11.	11.8	24.	7.6	11.879	3.447	8.9	9.45	13.	17.
01020p	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	29	150.	150.69	320.	10.	4220.936	64.969	90.	110.	180.	220.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	29	883.	933.966	2860.	385.	176243.606	419.814	505.	762.	1004.5	1110.
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	29	2270.01	2987.598	14670.1	1110.01	6220919.519	2494.177	1300.01	1800.01	3560.005	4630.01
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	29	1.2	1.271	3.89	0.52	0.326	0.571	0.69	1.035	1.365	1.51
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/01/49-06/06/83	10	96.	93.9	98.	85.	22.989	4.795	85.2	90.	98.	98.

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Annual Analysis for 1961 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	10/01/49-06/06/83	10	97.5	96.	98.	88.	10.	3.162	88.6	94.75	98.	98.
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	10/01/49-09/19/61	10	99.	98.6	100.	95.	1.822	1.35	95.3	98.75	99.	99.9
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	10/01/49-09/19/61	9	100.	100.	100.	100.	0.	0.	100.	100.	100.	100.
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/01/49-06/12/91	10	72.5	62.2	78.	36.	292.178	17.093	36.6	45.	76.5	78.
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/01/49-06/12/91	10	92.5	83.5	97.	57.	225.611	15.02	58.	70.	96.	96.9
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	28	1.2	1.632	5.8	0.2	1.996	1.413	0.3	0.625	2.15	4.02
71885	IRON (UG/L AS FE)	12/18/60-05/04/67	28	0.	4.286	20.	0.	32.804	5.727	0.	0.	10.	10.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/49-09/18/92	10	7735.	11469.7	28900.	597.	118360647.567	10879.368	740.3	2480.	20700.	28770.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/59-02/26/86	10	39200.	66928.	182000.	1950.	5067178706.667	71184.118	2224.	6272.5	134250.	181200.

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Annual Analysis for 1962 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	32	2183.	2574.781	6000.	747.	2067646.628	1437.931	1090.9	1584.5	3071.25	5376.8
00080	COLOR (PLATINUM-COBALT UNITS)	11/01/56-11/19/69	30	5.	5.067	7.	3.	0.754	0.868	4.	5.	5.25	6.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	32	989.5	956.781	1460.	511.	41725.273	204.268	605.1	877.25	1057.5	1147.
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	32	7.55	7.491	7.9	7.	0.056	0.237	7.2	7.3	7.675	7.8
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	32	7.547	7.427	7.9	7.	0.061	0.246	7.2	7.3	7.675	7.8
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	32	0.028	0.037	0.1	0.013	0.	0.022	0.016	0.021	0.05	0.063
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	32	205.5	201.5	257.	136.	921.29	30.353	148.8	188.	223.75	232.8
00445p	CARBONATE ION (MG/L AS CO3)	10/03/50-12/17/81	32	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	32	322.5	314.813	479.	171.	4791.19	69.218	199.8	284.75	348.5	383.2
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	32	151.	149.594	303.	59.	2557.991	50.577	76.3	117.25	169.5	189.3
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	30	84.	81.367	115.	46.	244.861	15.648	55.2	71.75	91.	98.8
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	30	26.	26.2	47.	13.	48.51	6.965	15.	23.	30.25	32.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	32	95.	90.75	156.	40.	609.419	24.686	50.8	79.5	100.	121.8
00931p	SODIUM ADSORPTION RATIO	03/11/53-02/16/83	32	2.3	2.2	3.2	1.3	0.17	0.413	1.56	2.	2.375	2.74
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/11/53-06/06/86	30	3.85	3.8	5.	2.4	0.655	0.809	2.42	3.2	4.45	4.98
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	31	14.	13.935	26.	5.	18.662	4.32	8.	12.	17.	19.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	32	326.5	312.688	563.	136.	8202.48	90.568	170.2	273.	354.25	393.8
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	30	0.4	0.363	0.5	0.2	0.007	0.081	0.21	0.3	0.4	0.49
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	30	11.	11.693	17.	9.5	3.258	1.805	9.73	10.75	12.25	14.8
01020p	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	30	110.	123.667	270.	30.	3086.092	55.553	61.	100.	140.	250.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	31	680.	665.839	1110.	343.	24243.006	155.702	410.	611.	740.	822.2
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	31	3500.01	4283.558	10760.1	1630.01	4589630.188	2142.342	2148.01	3020.01	5370.	7488.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	31	0.92	0.905	1.51	0.47	0.045	0.212	0.556	0.83	1.01	1.116
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	30	1.1	1.2	2.7	0.2	0.437	0.661	0.41	0.7	1.55	2.3
71885	IRON (UG/L AS FE)	12/18/60-05/04/67	30	10.	11.667	70.	0.	297.126	17.237	0.	0.	12.5	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 1963 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	26	1680.5	2679.731	11820.	753.	6711900.925	2590.734	879.9	1316.5	2494.5	6974.9
00080	COLOR (PLATINUM-COBALT UNITS)	11/01/56-11/19/69	24	7.	6.5	11.	2.	6.348	2.519	3.	4.25	8.	10.5
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	26	1018.5	990.885	1400.	523.	55358.106	235.283	628.9	876.	1160.	1353.
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	26	7.5	7.519	8.	7.2	0.036	0.19	7.3	7.375	7.7	7.7
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	26	7.5	7.482	8.	7.2	0.037	0.194	7.3	7.375	7.7	7.7
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	26	0.032	0.033	0.063	0.01	0.	0.013	0.02	0.02	0.042	0.05
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	26	207.5	203.308	238.	139.	756.862	27.511	159.7	182.25	226.25	236.3
00445p	CARBONATE ION (MG/L AS CO3)	10/03/50-12/17/81	26	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	26	328.5	323.	473.	181.	5607.36	74.882	209.5	279.	373.75	423.3

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Annual Analysis for 1963 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	26	160.5	156.308	279.	61.	3071.182	55.418	78.2	124.75	193.	236.8
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	26	86.5	84.692	130.	51.	341.102	18.469	56.	71.75	94.	114.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	26	28.5	27.115	43.	13.	60.826	7.799	15.1	22.75	33.	37.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	26	95.5	94.731	155.	37.	902.925	30.049	50.2	75.25	112.75	137.4
00931p	SODIUM ADSORPTION RATIO	03/11/53-02/16/83	26	2.3	2.254	3.2	1.2	0.256	0.506	1.48	1.9	2.525	3.03
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/11/53-06/06/86	26	4.05	4.158	6.3	2.3	0.951	0.975	2.98	3.5	4.775	5.86
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	26	14.5	13.615	22.	3.	26.406	5.139	6.1	9.5	17.25	19.9
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	26	330.5	331.846	528.	136.	10977.015	104.771	179.	273.5	407.25	505.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	26	0.4	0.412	0.6	0.2	0.009	0.095	0.3	0.375	0.5	0.53
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	26	12.	12.642	18.	8.1	5.81	2.41	9.88	11.	14.	16.6
01020p	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	26	135.	132.308	220.	60.	1482.462	38.503	70.	107.5	152.5	183.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	26	713.5	698.308	990.	345.	32661.662	180.725	422.	598.25	837.25	972.3
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	26	3245.01	4318.858	20580.1	2010.01	13904487.587	3728.872	2161.01	2555.01	4052.508	8759.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	26	0.97	0.95	1.35	0.47	0.06	0.246	0.571	0.818	1.14	1.319
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	26	1.5	1.719	4.2	0.6	0.978	0.989	0.67	0.9	2.625	3.03
71885	IRON (UG/L AS FE)	12/18/60-05/04/67	26	0.	4.615	20.	0.	33.846	5.818	0.	0.	10.	10.

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Annual Analysis for 1964 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	5	14.4	13.88	19.4	7.8	29.427	5.425	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	30	2077.5	2815.133	7845.	950.	3566230.533	1888.447	1263.8	1387.5	3788.5	5892.1
00080	COLOR (PLATINUM-COBALT UNITS)	11/01/56-11/19/69	25	5.	4.8	15.	1.	7.667	2.769	1.6	3.	6.	7.4
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	25	1020.	935.28	1230.	467.	45497.71	213.302	536.8	799.	1075.	1174.
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	25	7.6	7.672	8.2	7.	0.087	0.295	7.3	7.5	7.9	8.1
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	25	7.6	7.574	8.2	7.	0.097	0.311	7.3	7.5	7.9	8.1
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	25	0.025	0.027	0.1	0.006	0.	0.02	0.008	0.013	0.032	0.05
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	25	213.	199.76	265.	127.	1308.19	36.169	134.4	177.5	221.	231.8
00445p	CARBONATE ION (MG/L AS CO3)	10/03/50-12/17/81	25	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	25	318.	308.36	411.	159.	4925.907	70.185	184.6	269.5	356.	388.6
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	25	149.	144.48	214.	55.	1781.843	42.212	74.8	117.	176.	198.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	25	83.	79.32	104.	44.	276.56	16.63	52.	68.5	93.	97.8
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	25	29.	26.96	52.	12.	72.957	8.541	13.	22.	31.	35.2
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	25	97.	89.16	132.	34.	651.64	25.527	40.6	75.	107.	112.2
00931p	SODIUM ADSORPTION RATIO	03/11/53-02/16/83	25	2.3	2.176	2.9	1.2	0.189	0.434	1.3	2.	2.4	2.54
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/11/53-06/06/86	25	3.9	3.74	5.	2.1	0.445	0.667	2.72	3.25	4.15	4.44
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	25	14.	13.84	20.	5.	22.14	4.705	6.	10.	18.5	20.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	25	333.	301.24	447.	118.	7128.607	84.431	147.2	249.5	357.	390.6
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	25	0.4	0.388	0.5	0.2	0.009	0.093	0.2	0.35	0.45	0.5
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	25	11.	11.276	17.	9.6	2.529	1.59	9.66	10.	12.	13.4
01020p	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	25	120.	128.	260.	50.	2316.667	48.132	72.	100.	150.	208.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	25	715.	660.16	893.	301.	26293.723	162.153	383.4	553.	764.	854.6
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	25	3270.01	3935.607	8070.	2230.01	2518604.121	1587.011	2498.01	2765.01	4960.	6628.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	25	0.97	0.898	1.21	0.41	0.048	0.22	0.52	0.755	1.035	1.162
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/01/49-06/12/91	5	31.	38.	60.	24.	203.5	14.265	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/01/49-06/12/91	5	46.	54.2	79.	38.	308.2	17.556	**	**	**	**
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	25	1.	1.084	2.2	0.3	0.222	0.471	0.46	0.75	1.35	1.8
71885	IRON (UG/L AS FE)	12/18/60-05/04/67	25	0.	7.2	50.	0.	212.667	14.583	0.	0.	10.	38.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/49-09/18/92	5	3130.	7880.	27500.	2000.	121301450.	11013.694	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/59-02/26/86	5	25900.	95140.	363000.	16200.	22595088000.	150316.626	**	**	**	**

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Annual Analysis for 1965 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	30	2703.5	3477.333	10400.	1562.	6360601.885	2522.023	1701.1	2015.5	3094.	8879.9
00080	COLOR (PLATINUM-COBALT UNITS)	11/01/56-11/19/69	26	5.	5.385	11.	3.	4.006	2.002	3.	4.	6.25	8.6
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	30	841.	830.033	1060.	473.	28586.102	169.074	554.7	715.5	973.	1026.4
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	30	7.6	7.56	8.1	6.8	0.108	0.329	7.01	7.375	7.8	8.
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	30	7.6	7.431	8.1	6.8	0.125	0.354	7.01	7.375	7.8	8.
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	30	0.025	0.037	0.158	0.008	0.001	0.034	0.01	0.016	0.042	0.098
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/47-09/04/80	8	155.5	156.875	167.	151.	40.411	6.357	**	**	**	**
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	30	194.	188.4	227.	132.	675.972	25.999	145.	171.75	208.5	214.
00445p	CARBONATE ION (MG/L AS CO3)	10/03/50-12/17/81	30	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	30	272.5	272.3	362.	168.	2838.493	53.278	183.1	240.25	318.	327.7
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	30	117.5	117.7	195.	57.	1113.528	33.37	63.2	89.5	143.25	152.9
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	30	70.5	70.1	97.	44.	190.645	13.807	47.1	63.75	81.	84.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	30	24.	23.733	31.	14.	22.34	4.727	16.1	20.	28.25	29.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	30	76.5	75.3	100.	32.	419.045	20.471	44.	58.75	94.25	99.8
00931p	SODIUM ADSORPTION RATIO	03/11/53-02/16/83	30	2.05	1.957	2.4	1.1	0.141	0.376	1.4	1.6	2.3	2.4
00932p	SODIUM, PERCENT	12/01/49-02/16/83	8	37.	36.375	38.	33.	2.268	1.506	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/11/53-06/06/86	30	3.25	3.47	5.5	1.8	0.721	0.849	2.7	2.9	4.	4.69
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	30	12.	11.4	17.	5.	11.352	3.369	7.	8.75	14.	15.9
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	30	260.5	256.6	363.	121.	4525.628	67.273	149.2	205.5	314.25	335.4
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	30	0.4	0.427	0.9	0.2	0.039	0.198	0.3	0.3	0.4	0.9
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	30	11.	10.733	13.	8.2	0.944	0.972	9.6	10.	11.	12.
01020p	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	30	100.	92.333	120.	40.	673.678	25.955	50.	75.	110.	120.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	30	577.	568.467	764.	304.	16406.189	128.087	362.	476.75	676.	715.8
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	30	3975.01	4680.345	10890.1	3030.01	4187759.236	2046.402	3104.01	3287.51	4987.5	8710.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	30	0.785	0.773	1.04	0.41	0.03	0.174	0.493	0.65	0.92	0.977
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	30	0.9	0.85	1.7	0.2	0.186	0.431	0.2	0.5	1.125	1.4
71885	IRON (UG/L AS FE)	12/18/60-05/04/67	22	0.	4.091	10.	0.	25.325	5.032	0.	0.	10.	10.

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Annual Analysis for 1966 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	1	12.8	12.8	12.8	12.8	0.	0.	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	31	1070.	1221.323	2340.	582.	207028.626	455.004	669.4	884.	1550.	1892.8
00080	COLOR (PLATINUM-COBALT UNITS)	11/01/56-11/19/69	7	3.	3.	3.	3.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	31	1130.	1099.613	1380.	700.	37552.445	193.785	832.4	905.	1260.	1338.
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	31	7.7	7.703	8.1	7.1	0.068	0.26	7.32	7.6	7.9	8.08
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	31	7.7	7.624	8.1	7.1	0.074	0.272	7.32	7.6	7.9	8.08
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	31	0.02	0.024	0.079	0.008	0.	0.016	0.008	0.013	0.025	0.048
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/47-09/04/80	31	181.	177.355	230.	122.	676.37	26.007	133.2	162.	198.	211.
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	31	221.	216.258	280.	149.	999.731	31.619	162.6	198.	241.	257.6
00445p	CARBONATE ION (MG/L AS CO3)	10/03/50-12/17/81	31	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	31	370.	358.968	448.	242.	3270.166	57.185	276.6	306.	405.	429.
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	31	191.	181.613	240.	111.	1344.578	36.668	129.8	147.	210.	224.6
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	31	91.	91.484	122.	55.	337.591	18.374	69.2	75.	108.	116.8
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	31	31.	31.839	46.	19.	41.806	6.466	24.	27.	35.	41.8
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	31	118.	113.194	162.	55.	940.628	30.67	74.	87.	136.	156.8
00931p	SODIUM ADSORPTION RATIO	03/11/53-02/16/83	31	2.6	2.568	3.5	1.5	0.302	0.549	1.9	2.1	2.8	3.4
00932p	SODIUM, PERCENT	12/01/49-02/16/83	31	39.	39.806	48.	33.	14.361	3.79	35.	37.	43.	45.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/11/53-06/06/86	31	4.	3.981	7.	0.8	2.482	1.576	1.74	3.1	4.6	6.82
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	31	19.	18.677	28.	9.	24.359	4.935	10.2	16.	21.	26.6
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	31	399.	387.129	528.	207.	8885.249	94.262	251.6	290.	457.	508.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	31	0.5	0.545	0.8	0.3	0.021	0.143	0.4	0.4	0.7	0.7
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	31	9.9	10.148	13.	7.6	2.643	1.626	7.9	9.1	11.	13.
01020p	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	31	130.	130.645	230.	10.	2279.57	47.745	100.	100.	160.	196.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	31	796.	779.032	1000.	458.	23563.766	153.505	568.8	628.	914.	972.

** - Less than 9 observations ## - Computed with 50% or 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 BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	31	2460.01	2410.977	3560.01	1460.01	257335.686	507.283	1720.01	2040.01	2810.01	3024.01
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	31	1.08	1.059	1.36	0.62	0.043	0.208	0.778	0.85	1.24	1.318
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	31	1.	1.174	2.9	0.4	0.377	0.614	0.52	0.7	1.3	2.34
71885	IRON (UG/L AS FE)	12/18/60-05/04/67	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 box-and-whisker plot

Annual Analysis for 1967 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	3	8.3	6.967	12.	0.6	33.823	5.816	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	23	2010.	3103.609	18060.	938.	13484103.613	3672.071	1150.	1557.	2280.	7425.6
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	23	921.	926.174	1130.	469.	30733.514	175.31	619.4	844.	1060.	1126.
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	23	7.9	7.93	8.5	7.5	0.063	0.251	7.6	7.8	8.1	8.26
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	23	7.9	7.864	8.5	7.5	0.068	0.26	7.6	7.8	8.1	8.26
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	23	0.013	0.014	0.032	0.003	0.	0.008	0.006	0.008	0.016	0.025
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/47-09/04/80	23	166.	163.13	212.	102.	725.755	26.94	113.2	154.	180.	193.6
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	23	202.	198.87	258.	124.	1083.482	32.916	137.6	188.	220.	236.
00445p	CARBONATE ION (MG/L AS CO3)	10/03/50-12/17/81	23	0.	0.435	8.	0.	2.893	1.701	0.	0.	0.	1.2
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	23	310.	304.	389.	170.	3221.091	56.755	191.2	278.	340.	368.8
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	23	144.	140.13	184.	68.	1016.119	31.877	77.4	126.	161.	180.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	23	94.	88.13	107.	53.	206.119	14.357	62.2	79.	98.	102.6
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	23	21.	20.365	42.	5.6	70.824	8.416	8.68	14.	26.	31.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	23	86.	90.957	126.	29.	594.771	24.388	56.2	78.	111.	122.6
00931p	SODIUM ADSORPTION RATIO	03/11/53-02/16/83	23	2.2	2.257	3.	1.	0.203	0.45	1.68	2.1	2.6	2.92
00932p	SODIUM, PERCENT	12/01/49-02/16/83	23	38.	38.478	46.	27.	14.352	3.788	34.8	37.	41.	43.2
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/11/53-06/06/86	23	3.8	3.952	6.	2.	0.681	0.825	3.14	3.4	4.6	5.02
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	23	13.	13.087	20.	4.	13.901	3.728	7.8	12.	15.	17.6
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	23	305.	306.391	400.	121.	5262.885	72.546	179.4	270.	370.	382.8
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	23	0.5	0.483	0.8	0.2	0.017	0.13	0.3	0.4	0.6	0.6
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	23	10.	10.087	14.	8.	1.625	1.275	8.58	9.6	10.	12.
01020p	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	23	100.	101.739	170.	50.	660.474	25.7	70.	90.	110.	130.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	23	640.	639.217	806.	288.	18587.542	136.336	405.2	574.	754.	796.8
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-02/16/83	5	623.	604.4	631.	562.	1001.8	31.651	**	**	**	**
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	23	3350.01	4653.93	21750.1	2030.01	18571021.458	4309.411	2438.01	2990.01	4090.01	10350.06
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	23	0.87	0.87	1.1	0.39	0.035	0.187	0.55	0.78	1.03	1.086
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	23	1.1	1.204	3.1	0.1	0.659	0.812	0.24	0.5	1.5	2.68
71885	IRON (UG/L AS FE)	12/18/60-05/04/67	2	70.	70.	70.	70.	0.	0.	**	**	**	**

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Annual Analysis for 1968 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	27	2290.	2602.148	7210.	938.	2001043.054	1414.582	1430.	1890.	2690.	4954.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	27	912.	890.37	1120.	450.	21116.627	145.316	629.2	862.	948.	1056.
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	27	7.8	7.896	8.2	7.6	0.031	0.176	7.7	7.8	8.	8.2
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	27	7.8	7.864	8.2	7.6	0.032	0.179	7.7	7.8	8.	8.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	27	0.016	0.014	0.025	0.006	0.	0.005	0.006	0.01	0.016	0.02
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/47-09/04/80	27	166.	161.407	197.	100.	465.635	21.579	125.	151.	174.	189.8
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	27	202.	196.889	240.	122.	684.487	26.163	153.	184.	212.	231.
00445p	CARBONATE ION (MG/L AS CO3)	10/03/50-12/17/81	27	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	27	298.	291.	382.	149.	2474.154	49.741	206.4	268.	311.	358.8
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	27	131.	129.481	194.	49.	873.259	29.551	80.4	120.	140.	166.6

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Annual Analysis for 1968 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	27	79.	79.333	117.	43.	234.154	15.302	57.4	73.	86.	102.8
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	27	24.	22.711	31.	3.2	40.376	6.354	12.4	21.	27.	29.2
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	27	88.	85.852	118.	32.	337.593	18.374	57.	83.	93.	113.
00931p	SODIUM ADSORPTION RATIO	03/11/53-02/16/83	27	2.2	2.178	2.8	1.1	0.109	0.33	1.74	2.1	2.3	2.6
00932p	SODIUM, PERCENT	12/01/49-02/16/83	27	39.	38.481	44.	32.	4.336	2.082	36.	38.	40.	40.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/11/53-06/06/86	27	3.6	3.389	4.6	1.2	0.796	0.892	1.6	3.3	3.8	4.4
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	27	14.	13.037	18.	5.	11.114	3.334	6.8	12.	15.	17.2
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	27	292.	288.926	404.	115.	3742.61	61.177	185.	270.	315.	361.6
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	27	0.4	0.437	0.6	0.3	0.005	0.074	0.38	0.4	0.5	0.52
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	27	9.5	9.644	11.	8.2	0.55	0.742	8.84	9.1	10.	11.
01020p	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	27	80.	82.222	130.	30.	717.949	26.795	38.	60.	100.	122.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	27	624.	607.926	798.	296.	11418.61	106.858	424.	576.	656.	731.6
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-02/16/83	27	611.	601.148	802.	276.	12696.593	112.679	408.8	576.	653.	738.4
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	27	3930.01	3925.93	7790.	2020.01	1273488.467	1128.489	2656.008	3020.01	4490.	5256.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	27	0.85	0.827	1.09	0.4	0.022	0.147	0.572	0.78	0.89	0.998
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	27	0.6	0.948	5.9	0.1	1.423	1.193	0.18	0.3	1.2	2.06

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Annual Analysis for 1969 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	7	1.	6.357	20.	0.	64.56	8.035	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	29	1830.	2007.172	4600.	810.	709527.862	842.335	844.	1615.	2580.	2800.
00080	COLOR (PLATINUM-COBALT UNITS)	11/01/56-11/19/69	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	28	966.	956.143	1230.	563.	25090.646	158.4	742.1	883.	1027.5	1192.
00300	OXYGEN, DISSOLVED MG/L	08/29/69-04/14/97	4	9.7	9.975	11.7	8.8	1.609	1.269	**	**	**	**
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	28	8.1	8.054	8.8	7.4	0.147	0.383	7.5	7.7	8.4	8.6
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	28	8.1	7.902	8.8	7.4	0.171	0.413	7.5	7.7	8.4	8.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	28	0.008	0.013	0.04	0.002	0.	0.01	0.003	0.004	0.02	0.032
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/47-09/04/80	24	170.	167.042	192.	116.	368.737	19.203	136.5	157.5	181.75	188.
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	24	205.	199.958	234.	141.	618.129	24.862	162.	179.5	220.25	229.
00445p	CARBONATE ION (MG/L AS CO3)	10/03/50-12/17/81	24	0.	1.833	16.	0.	18.058	4.249	0.	0.	0.	10.
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/19/69-07/28/89	1	0.11	0.11	0.11	0.11	0.	0.	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	23	318.	309.043	396.	199.	2290.316	47.857	239.	274.	334.	379.2
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	23	144.	142.826	204.	83.	960.332	30.989	99.2	119.	153.	197.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	24	83.	80.833	102.	52.	143.797	11.992	62.5	72.75	88.	97.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	24	27.	26.917	38.	17.	25.993	5.098	20.	22.25	29.75	34.5
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	23	88.	91.565	139.	44.	541.893	23.279	65.6	77.	105.	135.4
00931p	SODIUM ADSORPTION RATIO	03/11/53-02/16/83	23	2.2	2.243	3.1	1.4	0.161	0.401	1.84	2.	2.6	2.96
00932p	SODIUM, PERCENT	12/01/49-02/16/83	23	38.	38.13	44.	32.	7.482	2.735	35.	37.	39.	42.6
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/11/53-06/06/86	23	3.7	3.783	4.9	2.8	0.348	0.59	2.92	3.4	4.2	4.7
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	24	14.	13.792	18.	6.	10.955	3.31	9.	11.25	17.	18.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	24	312.	313.125	463.	166.	4944.288	70.316	225.5	262.	343.5	435.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	23	0.4	0.396	0.5	0.2	0.005	0.071	0.3	0.4	0.4	0.5
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	23	9.	9.178	11.	7.7	0.874	0.935	7.82	8.6	9.6	11.
01020p	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	23	100.	92.609	140.	0.	1229.249	35.061	26.	80.	120.	120.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	24	658.	650.417	894.	376.	15335.645	123.837	486.	563.	708.5	854.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-02/16/83	23	625.	638.957	885.	365.	15710.953	125.343	476.2	547.	703.	844.4
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	24	3435.	3523.751	6880.	1920.01	1243307.377	1115.037	2005.01	2840.	4290.	4815.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	24	0.895	0.885	1.22	0.51	0.029	0.17	0.66	0.763	0.96	1.165
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	24	0.6	0.654	1.5	0.1	0.15	0.388	0.2	0.325	0.875	1.3
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/49-09/18/92	1	13.	13.	13.	13.	0.	0.	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/59-02/26/86	1	58.	58.	58.	58.	0.	0.	**	**	**	**

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Annual Analysis for 1970 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	17	7.	8.	23.	0.	58.344	7.638	0.	0.	15.	19.8
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	34	1825.	2053.441	4790.	577.	929448.496	964.079	903.5	1422.5	2462.5	3665.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	21	953.	902.286	1290.	450.	61990.614	248.979	515.6	689.5	1040.	1258.
00300	OXYGEN, DISSOLVED MG/L	08/29/69-04/14/97	2	8.2	8.2	8.6	7.8	0.32	0.566	**	**	**	**
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	21	8.	7.967	8.2	7.6	0.031	0.177	7.72	7.8	8.1	8.2
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	21	8.	7.932	8.2	7.6	0.033	0.181	7.72	7.8	8.1	8.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	21	0.01	0.012	0.025	0.006	0.	0.005	0.006	0.008	0.016	0.019
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/47-09/04/80	19	176.	165.474	210.	83.	1153.263	33.96	107.	150.	185.	202.
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	19	214.	201.737	256.	101.	1705.538	41.298	131.	183.	225.	246.
00445p	CARBONATE ION (MG/L AS CO3)	10/03/50-12/17/81	19	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/19/69-07/28/89	2	0.11	0.11	0.2	0.02	0.016	0.127	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	19	318.	310.895	428.	168.	5803.877	76.183	186.	272.	354.	410.
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	19	142.	145.421	218.	71.	1952.813	44.191	79.	122.	170.	215.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	19	82.	80.368	112.	46.	359.246	18.954	50.	73.	94.	108.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	19	28.	26.842	37.	13.	52.363	7.236	15.	22.	32.	36.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	18	94.5	92.167	142.	37.	811.441	28.486	39.7	82.5	106.	136.6
00931p	SODIUM ADSORPTION RATIO	03/11/53-02/16/83	18	2.25	2.211	3.1	1.2	0.243	0.493	1.2	2.125	2.425	2.92
00932p	SODIUM, PERCENT	12/01/49-02/16/83	18	38.	37.611	43.	29.	11.546	3.398	29.9	36.75	39.25	41.2
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/11/53-06/06/86	17	4.2	4.024	5.5	2.1	0.839	0.916	2.74	3.3	4.6	5.5
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	19	15.	13.842	20.	5.	25.251	5.025	5.	9.	18.	19.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	19	309.	306.211	488.	144.	9684.287	98.409	152.	253.	352.	448.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	17	0.6	0.847	2.5	0.3	0.293	0.541	0.38	0.45	1.15	1.54
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	17	9.2	9.6	13.	7.	2.093	1.447	7.96	8.6	11.	11.4
01020p	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	18	110.	110.556	170.	60.	1040.85	32.262	60.	87.5	132.5	161.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	19	698.	810.947	3380.	336.	413461.497	643.01	396.	614.	814.	942.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-02/16/83	17	687.	649.765	924.	327.	29550.691	171.903	363.	567.	760.5	904.
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	19	3800.	4778.422	29800.	1430.	37464357.726	6120.813	1950.	2900.	4230.	4450.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	19	0.95	1.104	4.6	0.46	0.765	0.875	0.54	0.84	1.11	1.28
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/01/49-06/12/91	4	59.5	59.	82.	35.	622.	24.94	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/01/49-06/12/91	4	72.5	73.25	97.	51.	581.583	24.116	**	**	**	**
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	19	0.7	0.963	2.5	0.1	0.45	0.671	0.2	0.4	1.6	1.8
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/49-09/18/92	12	186.	277.25	862.	12.	86707.841	294.462	21.	66.5	470.5	843.4
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/59-02/26/86	12	789.	1301.917	5730.	49.	2838017.72	1684.642	93.7	288.5	1111.5	5118.

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Annual Analysis for 1971 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	17	14.	13.5	25.5	0.	63.5	7.969	1.6	6.75	20.5	22.7
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	17	2430.	3732.353	9920.	1650.	7964481.618	2822.141	1698.	2095.	4030.	9880.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	11	854.	778.455	910.	446.	27217.073	164.976	462.6	647.	902.	910.
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	11	8.	7.982	8.2	7.6	0.042	0.204	7.62	7.9	8.2	8.2
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	11	8.	7.935	8.2	7.6	0.044	0.21	7.62	7.9	8.2	8.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	11	0.01	0.012	0.025	0.006	0.	0.006	0.006	0.006	0.013	0.024
00405	CARBON DIOXIDE (MG/L AS CO2)	11/30/71-10/07/81	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/47-09/04/80	10	152.	147.9	170.	95.	471.878	21.723	99.	138.	164.75	169.7
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	10	185.	180.4	207.	116.	696.267	26.387	120.9	168.75	201.	206.7
00445p	CARBONATE ION (MG/L AS CO3)	10/03/50-12/17/81	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/30/71-08/23/79	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	10	290.	274.	350.	150.	3271.111	57.194	157.	235.	305.	347.
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	10	135.	126.5	183.	55.	1354.722	36.807	58.	97.	147.75	179.7
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	10	74.5	71.2	82.	43.	149.956	12.246	44.7	63.75	80.25	81.9
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	10	24.5	23.8	37.	11.	47.511	6.893	11.7	19.5	26.75	36.2
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	10	79.	74.7	100.	35.	338.233	18.391	37.4	64.25	87.25	98.8
00931p	SODIUM ADSORPTION RATIO	03/11/53-02/16/83	10	2.	1.93	2.5	1.2	0.118	0.343	1.25	1.775	2.125	2.47
00932p	SODIUM, PERCENT	12/01/49-02/16/83	10	37.	36.6	42.	33.	6.044	2.459	33.1	34.75	37.25	41.6

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Annual Analysis for 1971 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/11/53-06/06/86	10	3.3	3.47	4.4	2.4	0.422	0.65	2.43	3.15	3.95	4.4
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	10	14.5	13.	17.	7.	13.778	3.712	7.1	9.5	16.25	17.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	10	285.	270.	330.	120.	4422.222	66.5	129.	232.5	322.5	330.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	10	0.5	0.48	0.6	0.3	0.008	0.092	0.31	0.4	0.525	0.6
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	10	9.95	9.83	12.	7.3	1.567	1.252	7.43	9.425	10.25	11.9
01020p	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	12	100.	94.167	150.	50.	662.879	25.746	53.	80.	107.5	138.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	10	607.	568.	664.	308.	12706.667	112.724	323.4	502.5	658.	664.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-02/16/83	10	586.	556.1	666.	292.	13799.878	117.473	307.7	483.5	648.	665.4
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	10	4120.	4384.	8250.	2640.	2447826.667	1564.553	2651.	3575.	4790.	7946.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	10	0.83	0.773	0.9	0.42	0.023	0.153	0.441	0.683	0.893	0.9
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/01/49-06/12/91	8	23.	31.875	74.	9.	491.268	22.165	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/01/49-06/12/91	8	34.5	45.	88.	16.	655.429	25.601	**	**	**	**
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	10	1.4	1.39	3.4	0.3	0.985	0.993	0.32	0.5	1.975	3.31
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/49-09/18/92	12	464.5	979.083	3140.	116.	1126370.811	1061.306	121.4	182.5	2007.5	2948.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/59-02/26/86	12	3730.	12696.583	83700.	517.	547381675.72	23396.189	604.9	971.5	15600.	64860.

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Annual Analysis for 1972 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	17	11.	9.647	24.	0.	62.399	7.899	0.	1.25	16.75	19.2
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	17	2220.	2695.882	7150.	1940.	1520450.735	1233.066	1996.	2110.	2895.	4222.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/49-04/14/97	1	2010.	2010.	2010.	2010.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	14	815.5	784.071	910.	614.	7556.995	86.931	639.5	713.75	855.75	894.
00300	OXYGEN, DISSOLVED MG/L	08/29/69-04/14/97	2	10.15	10.15	11.9	8.4	6.125	2.475	**	**	**	**
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	14	8.	8.014	8.3	7.7	0.038	0.196	7.75	7.875	8.15	8.3
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	14	8.	7.975	8.3	7.7	0.04	0.2	7.75	7.875	8.15	8.3
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	14	0.01	0.011	0.02	0.005	0.	0.005	0.005	0.007	0.013	0.018
00405	CARBON DIOXIDE (MG/L AS CO2)	11/30/71-10/07/81	4	3.45	3.25	4.6	1.5	2.257	1.502	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/47-09/04/80	12	149.5	147.833	179.	122.	225.242	15.008	122.9	141.	155.	173.
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	12	182.5	180.417	218.	149.	328.447	18.123	150.2	172.25	189.	210.8
00445p	CARBONATE ION (MG/L AS CO3)	10/03/50-12/17/81	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/30/71-08/23/79	4	0.25	0.313	0.7	0.05	0.076	0.275	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	12	275.	265.833	320.	200.	1317.424	36.296	203.	242.5	287.5	317.
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	12	124.5	117.75	165.	78.	562.023	23.707	79.8	101.5	130.	154.8
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	12	70.	69.167	82.	54.	63.97	7.998	54.6	65.75	74.75	80.2
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	12	22.	22.417	33.	17.	18.083	4.252	17.	20.	24.	30.6
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	12	70.5	68.083	78.	49.	88.629	9.414	51.1	61.25	76.	78.
00931p	SODIUM ADSORPTION RATIO	03/11/53-02/16/83	12	1.8	1.825	2.1	1.5	0.028	0.166	1.56	1.7	1.975	2.07
00932p	SODIUM, PERCENT	12/01/49-02/16/83	12	35.	35.333	38.	34.	2.061	1.435	34.	34.	36.75	37.7
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/11/53-06/06/86	12	3.3	3.275	4.4	2.6	0.215	0.463	2.66	3.	3.45	4.19
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	12	12.	11.917	15.	8.	4.265	2.065	8.3	10.5	13.75	14.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	12	260.	246.667	280.	180.	1060.606	32.567	186.	230.	270.	280.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	12	0.45	0.442	0.5	0.3	0.004	0.067	0.33	0.4	0.5	0.5
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	12	9.4	9.158	13.	5.7	3.648	1.91	6.12	7.575	9.95	12.4
01020p	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	12	90.	88.333	120.	70.	196.97	14.035	70.	80.	97.5	114.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	12	546.	523.333	584.	402.	3262.788	57.121	412.8	491.5	563.5	583.4
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-02/16/83	12	544.5	520.333	589.	396.	4031.333	63.493	404.1	481.5	576.	588.4
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	12	3565.	4007.5	8460.	2860.	2338584.091	1529.243	2920.	3107.5	4430.	7350.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	12	0.745	0.712	0.79	0.55	0.006	0.076	0.565	0.67	0.768	0.79
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/01/49-06/12/91	5	30.	29.4	34.	22.	22.8	4.775	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/01/49-06/12/91	5	42.	42.4	57.	30.	95.3	9.762	**	**	**	**
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	12	1.2	1.225	3.1	0.2	0.542	0.736	0.26	0.725	1.4	2.68
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/49-09/18/92	11	244.	423.909	1590.	91.	193162.091	439.502	98.8	173.	573.	1433.4
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/59-02/26/86	11	1480.	4833.273	30700.	518.	77328433.018	8793.659	580.	1120.	5400.	25876.

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Annual Analysis for 1973 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	18	7.25	9.833	25.5	0.	62.706	7.919	0.45	1.75	15.75	21.
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	15	2420.	2499.333	5310.	1310.	928206.667	963.435	1436.	1930.	2880.	4026.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/49-04/14/97	7	2880.	2738.571	3430.	1520.	378047.619	614.856	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/10/73-07/29/80	2	17.5	17.5	20.	15.	12.5	3.536	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	16	930.	953.375	1340.	600.	25725.183	160.391	749.1	884.25	1060.5	1179.
00300	OXYGEN, DISSOLVED MG/L	08/29/69-04/14/97	4	9.7	9.375	10.5	7.6	1.603	1.266	**	**	**	**
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	16	8.	7.994	8.5	7.5	0.109	0.33	7.5	7.725	8.275	8.5
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	16	7.989	7.882	8.5	7.5	0.122	0.349	7.5	7.725	8.275	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	16	0.01	0.013	0.032	0.003	0.	0.01	0.003	0.005	0.019	0.032
00405	CARBON DIOXIDE (MG/L AS CO2)	11/30/71-10/07/81	14	3.15	4.121	10.	0.9	8.503	2.916	0.95	1.85	7.125	8.9
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/47-09/04/80	14	160.	159.143	185.	115.	295.209	17.182	129.	155.	167.	183.5
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	14	195.	193.929	226.	140.	445.148	21.099	157.	188.75	203.75	224.
00445p	CARBONATE ION (MG/L AS CO3)	10/03/50-12/17/81	14	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/30/71-08/23/79	13	0.25	0.361	1.1	0.09	0.091	0.301	0.098	0.125	0.585	0.912
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/19/69-07/28/89	3	0.08	0.107	0.23	0.01	0.013	0.112	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	14	305.	313.571	500.	200.	4224.725	64.998	235.	287.5	330.	430.
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	14	145.	154.643	340.	85.	3601.786	60.015	97.5	127.5	150.	275.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	14	81.	83.	140.	56.	354.	18.815	63.5	73.5	88.5	116.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	14	25.5	25.571	36.	15.	24.11	4.91	18.	22.75	28.25	33.5
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	14	80.	83.5	120.	49.	305.192	17.47	58.	77.25	90.25	115.
00931p	SODIUM ADSORPTION RATIO	03/11/53-02/16/83	14	2.	2.057	2.9	1.5	0.092	0.303	1.65	1.975	2.1	2.6
00932p	SODIUM, PERCENT	12/01/49-02/16/83	14	36.	36.357	44.	32.	7.786	2.79	33.	34.	37.25	41.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/11/53-06/06/86	14	3.85	4.164	7.2	3.	1.296	1.139	3.15	3.45	4.375	6.5
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	14	13.5	14.5	20.	9.	12.269	3.503	10.	11.75	18.	19.5
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	14	290.	312.857	560.	180.	7775.824	88.181	210.	275.	332.5	480.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	14	0.5	0.486	0.6	0.3	0.007	0.086	0.35	0.4	0.525	0.6
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	14	11.	11.086	14.	8.9	2.477	1.574	9.1	10.	12.	14.
01020p	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	12	100.	100.833	140.	60.	371.97	19.287	66.	92.5	110.	131.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	12	640.	660.167	1010.	410.	21934.152	148.102	447.8	582.5	747.5	941.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-02/16/83	14	615.5	633.143	986.	398.	17995.67	134.148	463.5	577.	673.	870.5
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	14	4370.	4556.429	8650.	2220.	2728670.879	1651.869	2455.	3312.5	5467.5	7360.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	14	0.845	0.884	1.37	0.56	0.035	0.187	0.645	0.795	0.945	1.215
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/01/49-06/12/91	4	44.5	44.25	61.	27.	296.917	17.231	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/01/49-06/12/91	4	67.5	65.5	88.	39.	659.	25.671	**	**	**	**
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	13	1.1	1.592	4.8	0.4	1.744	1.321	0.44	0.55	2.6	4.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/49-09/18/92	6	1370.	1568.5	3900.	181.	2035021.5	1426.542	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/59-02/26/86	6	11010.	13170.167	30300.	641.	154145828.167	12415.548	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	15	10.5	10.1	23.	0.	63.686	7.98	0.3	1.	19.5	21.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/49-04/14/97	15	2200.	2538.667	7590.	1430.	2147355.238	1465.386	1502.	1750.	2700.	4704.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/10/73-07/29/80	11	10.	48.364	250.	1.	5556.055	74.539	1.	2.	75.	218.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	12	905.	869.083	992.	395.	26980.992	164.259	512.9	823.	979.5	988.4
00300	OXYGEN, DISSOLVED MG/L	08/29/69-04/14/97	12	10.05	9.742	12.8	6.8	2.686	1.639	7.28	8.525	10.55	12.5
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	12	8.15	8.15	8.4	7.9	0.023	0.151	7.93	8.025	8.2	8.4
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	12	8.147	8.127	8.4	7.9	0.023	0.153	7.93	8.025	8.2	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	12	0.007	0.007	0.013	0.004	0.	0.003	0.004	0.006	0.009	0.012
00405	CARBON DIOXIDE (MG/L AS CO2)	11/30/71-10/07/81	12	2.2	2.392	4.	1.4	0.703	0.838	1.4	1.825	2.85	3.94
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/47-09/04/80	12	172.	167.	194.	90.	751.455	27.413	108.9	158.25	186.75	192.5
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	12	208.5	202.	237.	110.	1079.636	32.858	132.8	192.75	225.	234.9
00445p	CARBONATE ION (MG/L AS CO3)	10/03/50-12/17/81	12	0.	0.75	6.	0.	3.477	1.865	0.	0.	0.	5.1
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/30/71-08/23/79	12	0.23	0.299	0.68	0.16	0.026	0.16	0.16	0.18	0.41	0.617
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/19/69-07/28/89	12	0.01	0.014	0.05	0.005	0.	0.014	0.005	0.005	0.018	0.044

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Annual Analysis for 1974 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	12	300.	303.333	390.	130.	4496.97	67.059	169.	280.	350.	381.
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	12	130.	136.667	200.	40.	1642.424	40.527	61.	120.	167.5	191.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	12	75.	68.917	88.	3.	587.72	24.243	15.6	66.25	86.75	87.7
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	12	27.5	27.508	43.	4.1	124.574	11.161	7.67	20.	36.	42.7
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	12	79.5	75.75	89.	31.	233.295	15.274	42.7	71.75	84.25	88.4
00931p	SODIUM ADSORPTION RATIO	03/11/53-02/16/83	12	1.9	1.967	2.8	1.2	0.128	0.358	1.38	1.9	2.075	2.62
00932p	SODIUM, PERCENT	12/01/49-02/16/83	12	36.	36.583	51.	32.	24.083	4.907	32.3	34.	37.	47.1
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/11/53-06/06/86	12	3.4	3.4	4.2	2.1	0.358	0.598	2.37	3.	3.925	4.2
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	12	14.5	14.917	27.	4.	40.447	6.36	5.5	9.5	19.75	25.5
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	12	290.	271.667	330.	100.	4215.152	64.924	136.	245.	317.5	330.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	12	0.5	0.483	0.7	0.3	0.014	0.119	0.33	0.4	0.5	0.7
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	12	9.1	9.4	11.	7.6	0.978	0.989	7.9	8.825	10.	11.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-02/16/83	12	612.	580.083	690.	250.	14137.174	118.9	329.5	537.75	660.5	681.9
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	12	3305.	3539.167	5120.	2560.	646226.515	803.882	2623.	2880.	4110.	5000.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	12	0.835	0.789	0.94	0.34	0.026	0.161	0.448	0.732	0.898	0.928
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/01/49-06/12/91	2	31.5	31.5	45.	18.	364.5	19.092	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/01/49-06/12/91	2	48.5	48.5	64.	33.	480.5	21.92	**	**	**	**
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	12	1.	1.317	3.	0.7	0.505	0.711	0.7	0.8	1.8	2.73
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/49-09/18/92	5	274.	703.2	2370.	66.	911816.7	954.891	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/59-02/26/86	5	2060.	11229.2	48600.	276.	438568903.2	20942.037	**	**	**	**

** - 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 box-and-whisker plot

Annual Analysis for 1975 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	16	10.	9.094	21.5	0.	56.707	7.53	0.	0.25	14.75	20.1
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/02/75-04/14/97	2	25.	25.	31.5	18.5	84.5	9.192	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/49-04/14/97	16	1945.	2695.625	8800.	1140.	3665852.917	1914.642	1350.	1560.	2987.5	6007.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/10/73-07/29/80	13	10.	47.5	300.	1.	6927.583	83.232	1.4	5.	65.	220.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	12	910.	865.	1100.	540.	28681.818	169.357	576.	692.5	975.	1085.
00300	OXYGEN, DISSOLVED MG/L	08/29/69-04/14/97	12	9.8	9.908	12.	7.8	2.019	1.421	7.95	8.725	11.35	11.94
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	9	8.2	8.133	8.3	7.7	0.043	0.206	7.7	8.	8.3	8.3
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	9	8.2	8.084	8.3	7.7	0.045	0.213	7.7	8.	8.3	8.3
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	9	0.006	0.008	0.02	0.005	0.	0.005	0.005	0.005	0.01	0.02
00405	CARBON DIOXIDE (MG/L AS CO2)	11/30/71-10/07/81	9	1.9	2.578	6.4	1.4	2.539	1.594	1.4	1.55	3.2	6.4
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/47-09/04/80	12	172.	166.	197.	90.	783.091	27.984	107.4	152.	180.	194.6
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	12	210.	202.5	240.	110.	1165.909	34.145	131.	185.	220.	237.
00445p	CARBONATE ION (MG/L AS CO3)	10/03/50-12/17/81	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/30/71-08/23/79	12	0.24	0.423	2.5	0.09	0.437	0.661	0.105	0.145	0.335	1.873
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/19/69-07/28/89	12	0.03	0.04	0.09	0.01	0.001	0.025	0.013	0.02	0.065	0.084
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	12	315.	299.167	360.	140.	3753.788	61.268	170.	270.	330.	360.
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	12	140.	133.5	180.	50.	1336.091	38.1(091)5(0.)-8.f.270.		330.	360.	

Annual Analysis for 1989 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	3	31.	28.	38.	15.	139.	11.79	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	3	110.	89.	110.	47.	1323.	36.373	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	3	10.	9.467	11.	7.4	3.453	1.858	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	2	115.	115.	120.	110.	50.	7.071	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	10/03/76-07/28/89	3	28.	141.333	370.	26.	39217.333	198.034	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	10/03/76-07/28/89	3	1.447	1.81	2.568	1.415	0.431	0.657	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			64.582								
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/49-09/18/92	9	202.	322.889	757.	19.	65357.111	255.65	19.	182.5	568.5	757.

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Annual Analysis for 1990 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	9	15.	14.667	26.	0.	87.313	9.344	0.	5.5	23.	26.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/02/75-04/14/97	8	24.5	19.	34.	-9.	234.071	15.299	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/49-04/14/97	8	1350.	1524.375	3870.	820.	953646.268	976.548	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	5	920.	924.	950.	900.	630.	25.1	**	**	**	**
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	5	8.1	8.24	8.7	8.	0.078	0.279	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	5	8.1	8.182	8.7	8.	0.082	0.287	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	5	0.008	0.007	0.01	0.002	0.	0.003	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/17/80-03/14/91	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/17/80-03/14/91	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/17/80-03/14/91	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	5	110.	114.	130.	100.	130.	11.402	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/49-09/18/92	8	172.5	408.25	2000.	38.	436438.5	660.635	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	9	16.5	13.833	25.	0.	84.	9.165	0.	4.25	21.75	25.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/02/75-04/14/97	9	21.	19.722	34.	4.	155.194	12.458	4.	6.75	33.	34.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/49-04/14/97	10	2280.	4681.	13700.	1080.	19691476.667	4437.508	1091.	1437.5	8700.	13302.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	9	890.	848.333	1200.	535.	46293.75	215.16	535.	635.	967.5	1200.
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	2	8.45	8.45	8.6	8.3	0.045	0.212	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	2	8.425	8.425	8.6	8.3	0.046	0.215	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	2	0.004	0.004	0.005	0.003	0.	0.002	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/17/80-03/14/91	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/17/80-03/14/91	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/17/80-03/14/91	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	1	93.	93.	93.	93.	0.	0.	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	1	32.	32.	32.	32.	0.	0.	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	1	92.	92.	92.	92.	0.	0.	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	2	125.	125.	140.	110.	450.	21.213	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/01/49-06/12/91	2	33.	33.	51.	15.	648.	25.456	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/01/49-06/12/91	2	48.	48.	74.	22.	1352.	36.77	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/49-09/18/92	9	380.	2644.	14740.	45.	23223990.5	4819.128	45.	130.5	3355.	14740.

** - Less than 9 observations ## - Computed with 50% or 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 BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	11	12.	10.682	19.	0.	46.064	6.787	0.	5.	16.5	18.7
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/02/75-04/14/97	11	19.	14.5	24.	-4.	94.75	9.734	5.	6.	23.	23.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/49-04/14/97	10	1215.	1466.3	2530.	849.	376524.456	613.616	856.5	1026.	2065.	2518.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	11	1080.	1000.455	1140.	740.	22452.273	149.841	744.	820.	1095.	1134.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/49-09/18/92	9	140.	928.667	6500.	54.	4434994.75	2105.943	54.	70.	590.5	6500.

** - Less than 9 observations ## - Computed with 50% or 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 BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	11	9.	7.955	19.5	0.	61.573	7.847	0.	0.	14.	19.2
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/02/75-04/14/97	11	14.	9.864	28.	-10.	192.705	13.882	1.	9.5	26.	-2.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/49-04/14/97	11	1720.	1817.364	4660.	905.	1109838.455	1053.489	909.2	1070.	1900.	4226.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	11	920.	953.909	1250.	458.	46672.091	216.037	518.4	885.	1100.	1222.

** - Less than 9 observations ## - Computed with 50% or 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 BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	10	10.5	11.77	25.5	0.	89.873	9.48	0.	3.375	21.25	25.21
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/02/75-04/14/97	10	21.95	15.34	41.	-18.	296.594	17.222	7.11	2.325	35.75	-12.1
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/49-04/14/97	10	1080.	1052.3	1420.	644.	88927.567	298.207	646.1	764.75	1315.	1417.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	10	1100.	1146.8	1820.	693.	97085.733	311.586	711.7	996.25	1242.5	1787.

** - Less than 9 observations ## - Computed with 50% or 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 BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	8	11.95	11.413	20.9	0.	54.356	7.373	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/02/75-04/14/97	8	16.15	16.788	42.	-0.2	157.181	12.537	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/49-04/14/97	8	1920.	3894.375	10400.	808.	14221048.554	3771.081	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	8	854.5	966.875	1850.	530.	189612.411	435.445	**	**	**	**

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

Annual Analysis for 1996 - Station BICA0002

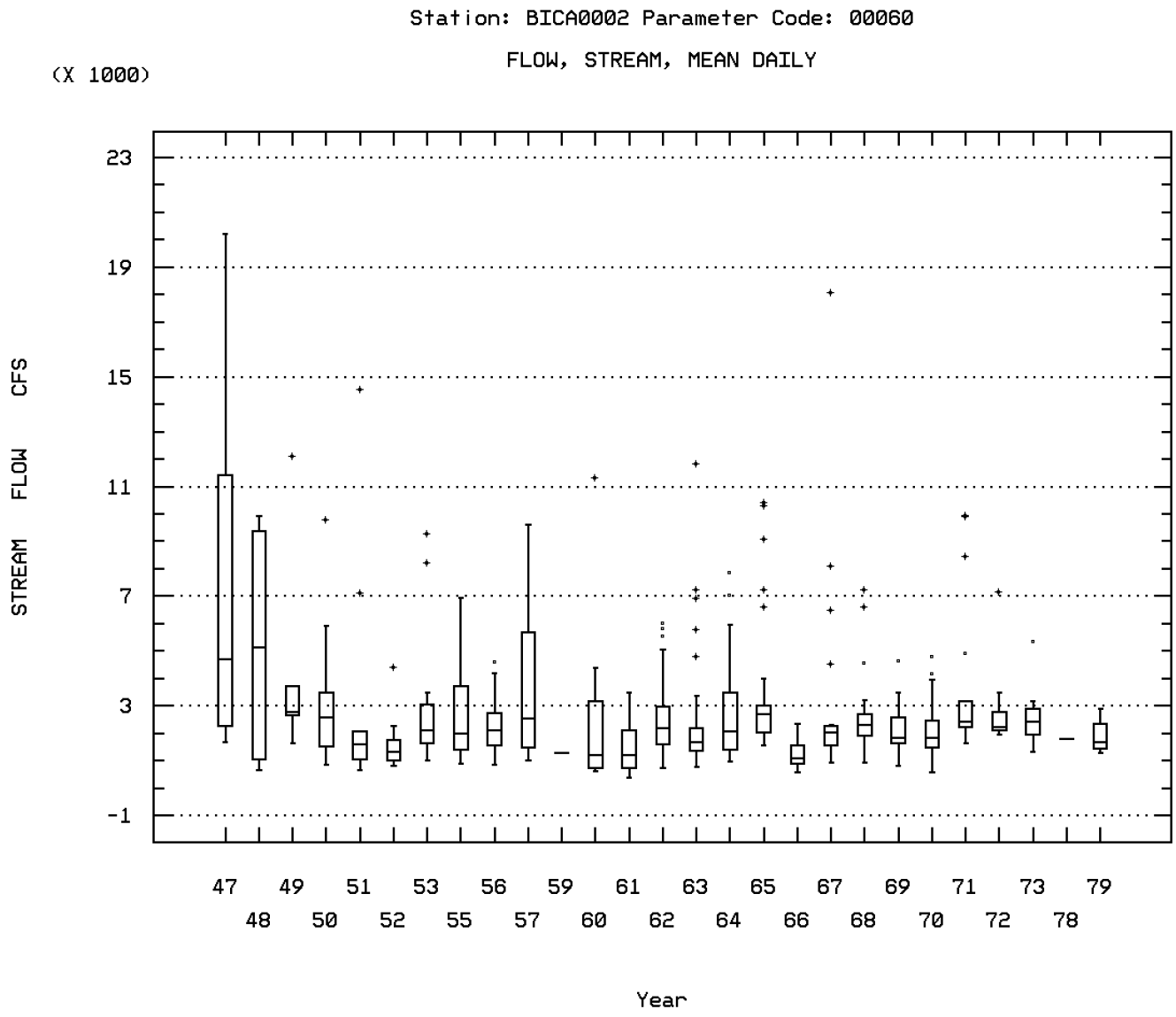
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	7	10.9	11.071	24.	0.	107.899	10.387	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/02/75-04/14/97	7	14.5	18.414	34.9	0.	179.318	13.391	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/49-04/14/97	7	1720.	2501.429	6990.	1320.	4056614.286	2014.104	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	7	817.	859.143	1160.	480.	53078.81	230.388	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/29/69-04/14/97	2	10.3	10.3	12.4	8.2	8.82	2.97	**	**	**	**
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	2	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	2	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	2	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**

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

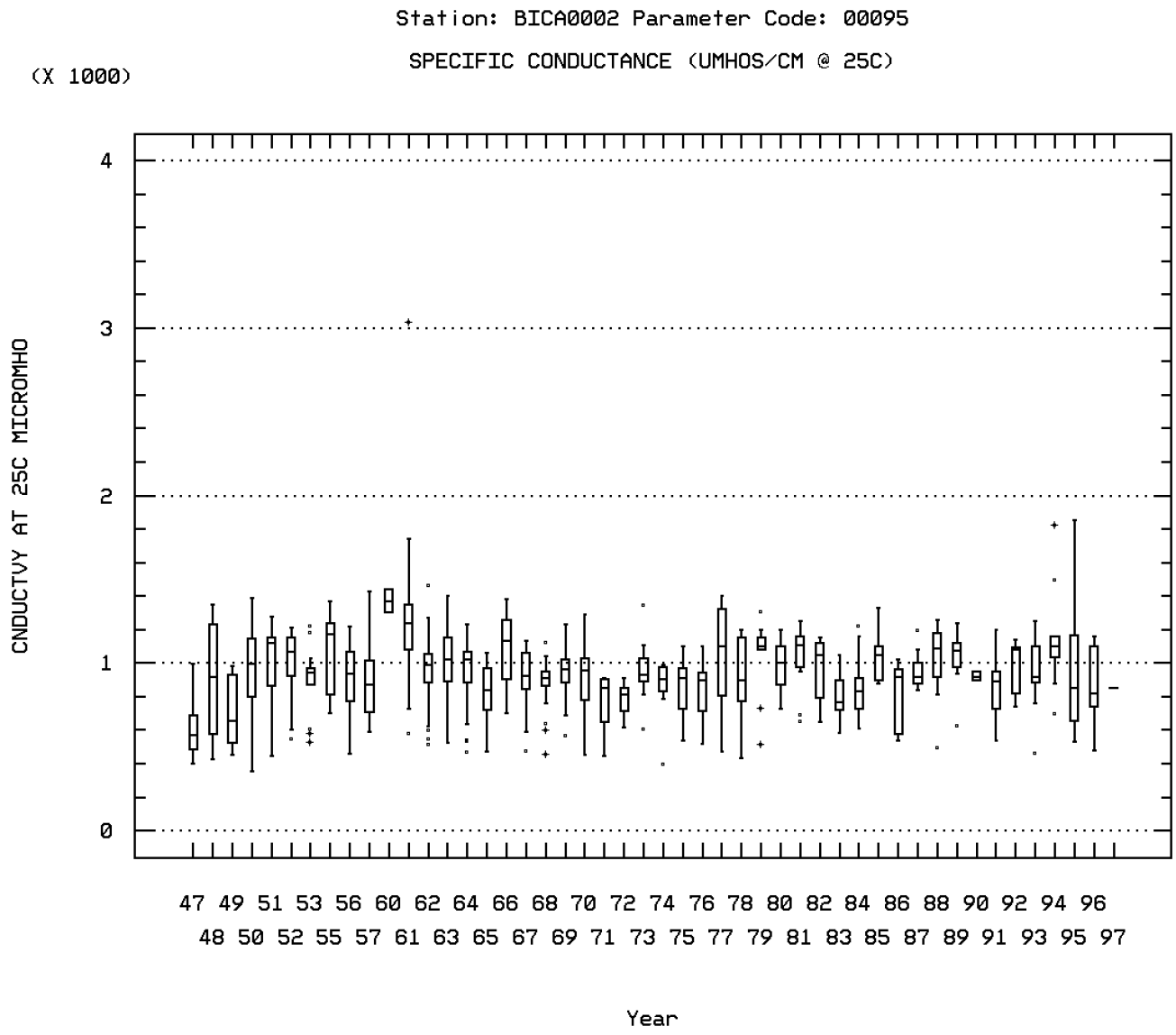
Annual Analysis for 1997 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/02/75-04/14/97	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/49-04/14/97	1	2910.	2910.	2910.	2910.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	1	853.	853.	853.	853.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/29/69-04/14/97	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	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 box-and-whisker plot



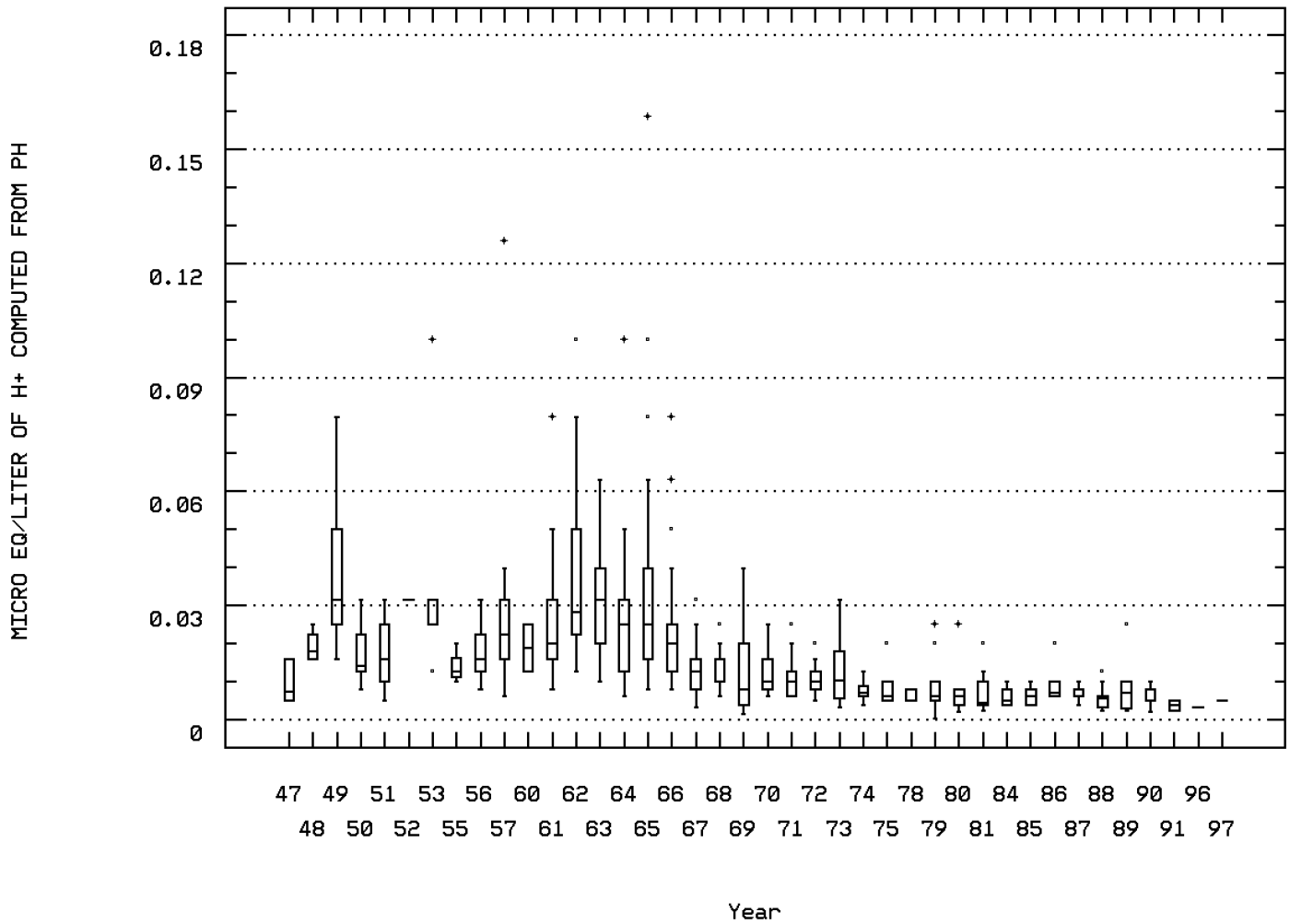
BIGHORN R AT KANE WYO



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00400

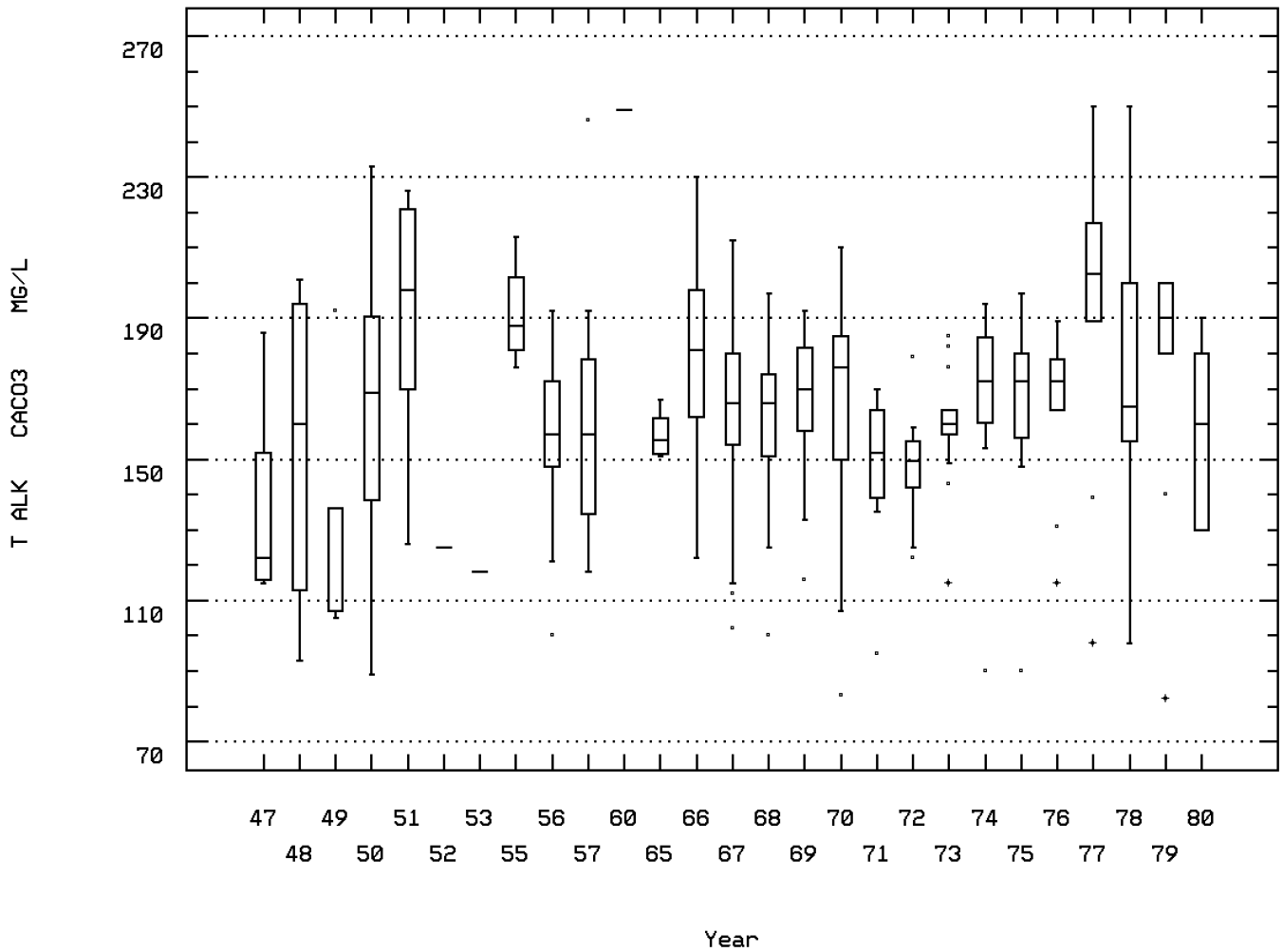
MICRO EQ/LITER OF H+ COMPUTED FROM PH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00410

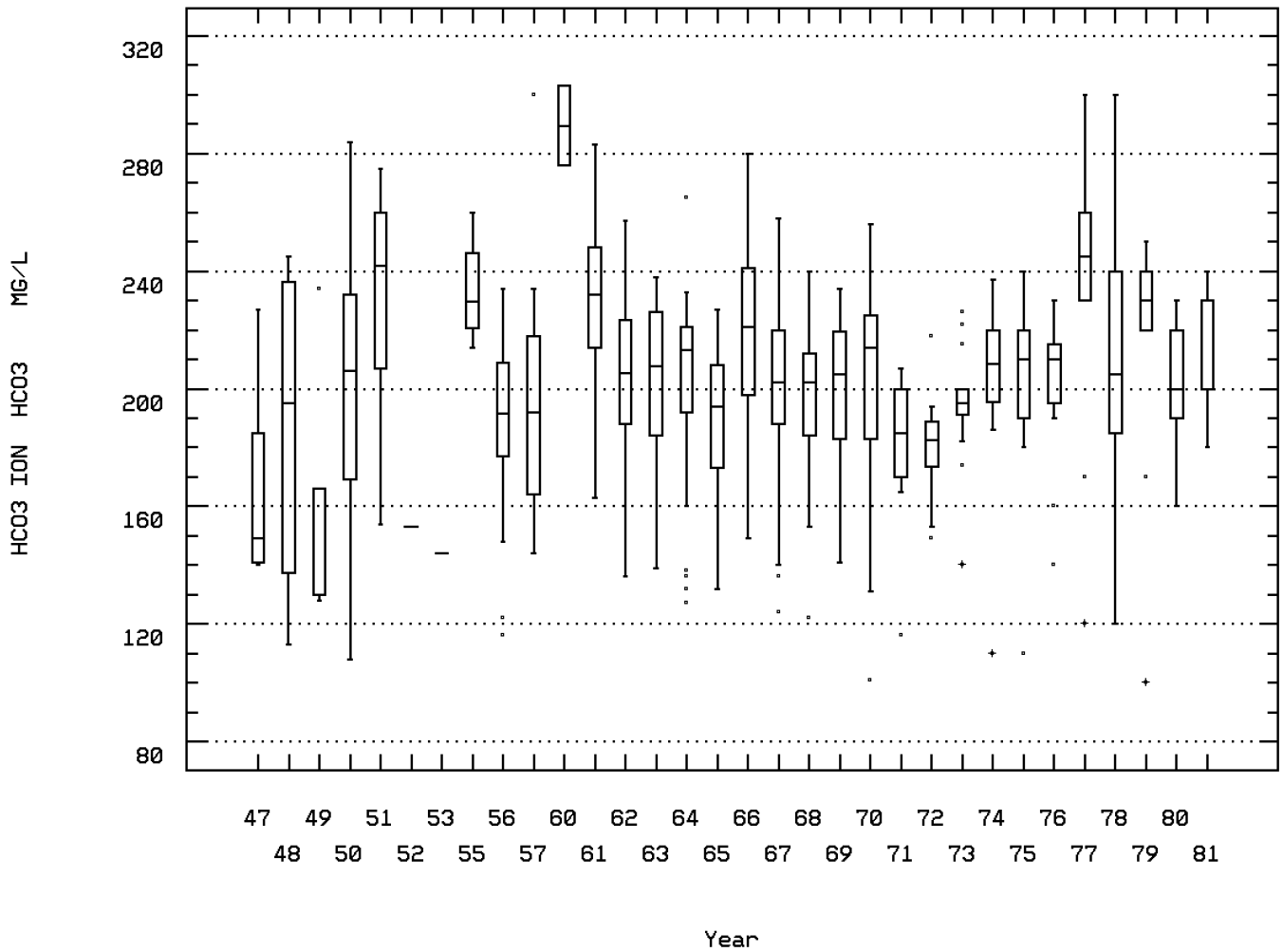
ALKALINITY, TOTAL (MG/L AS CACO3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00440

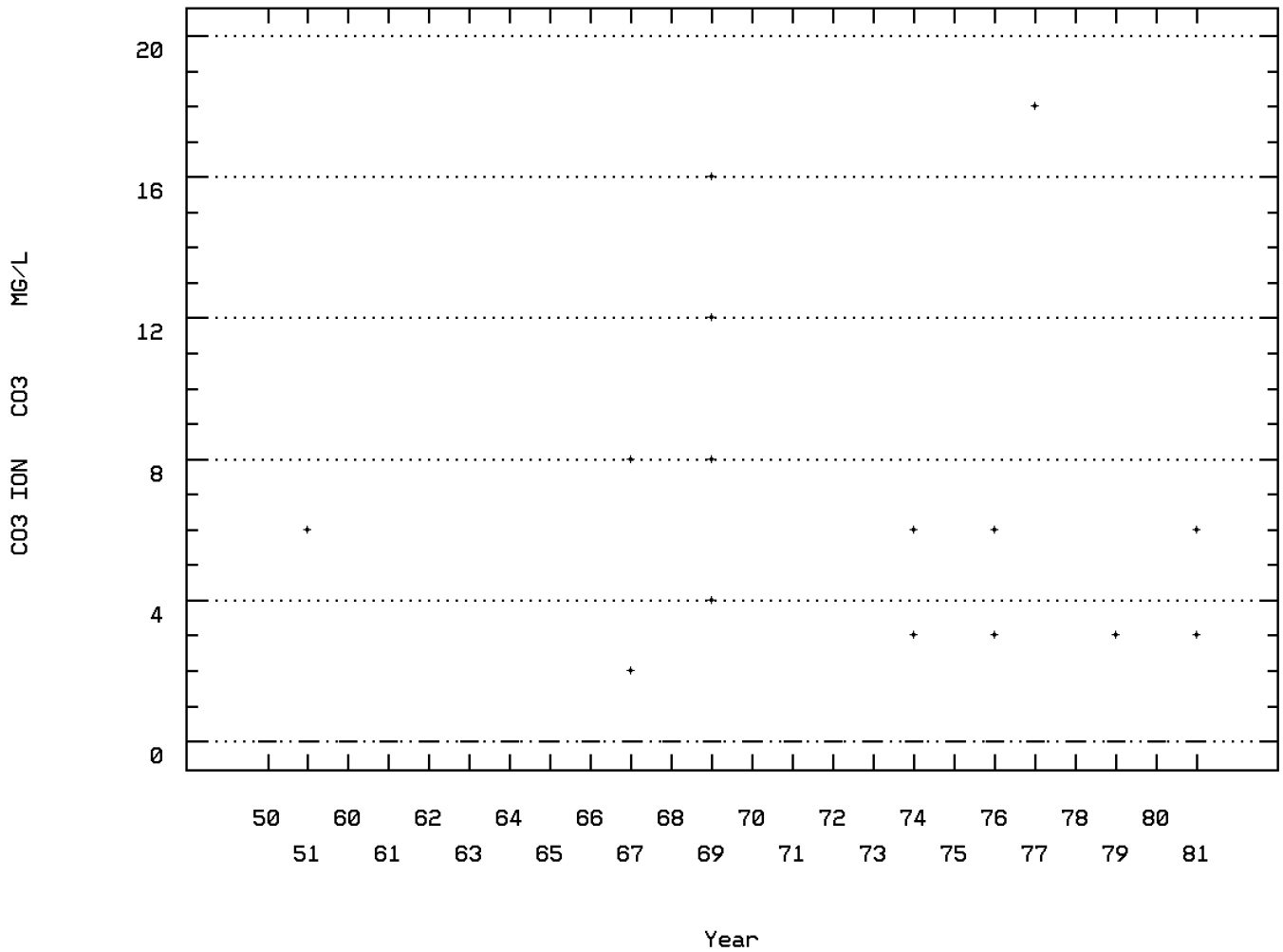
BICARBONATE ION (MG/L AS HCO3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00445

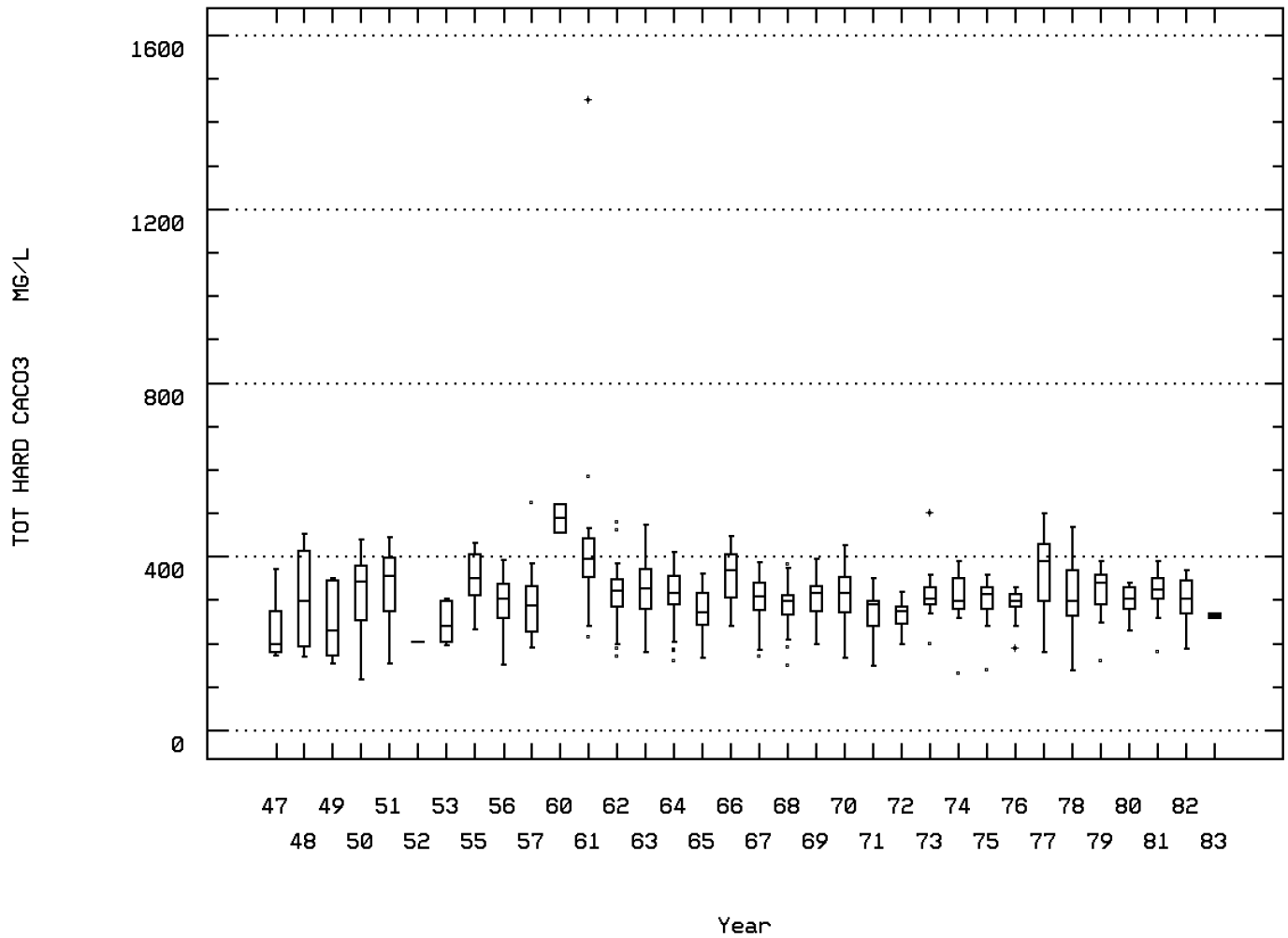
CARBONATE ION (MG/L AS CO3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00900

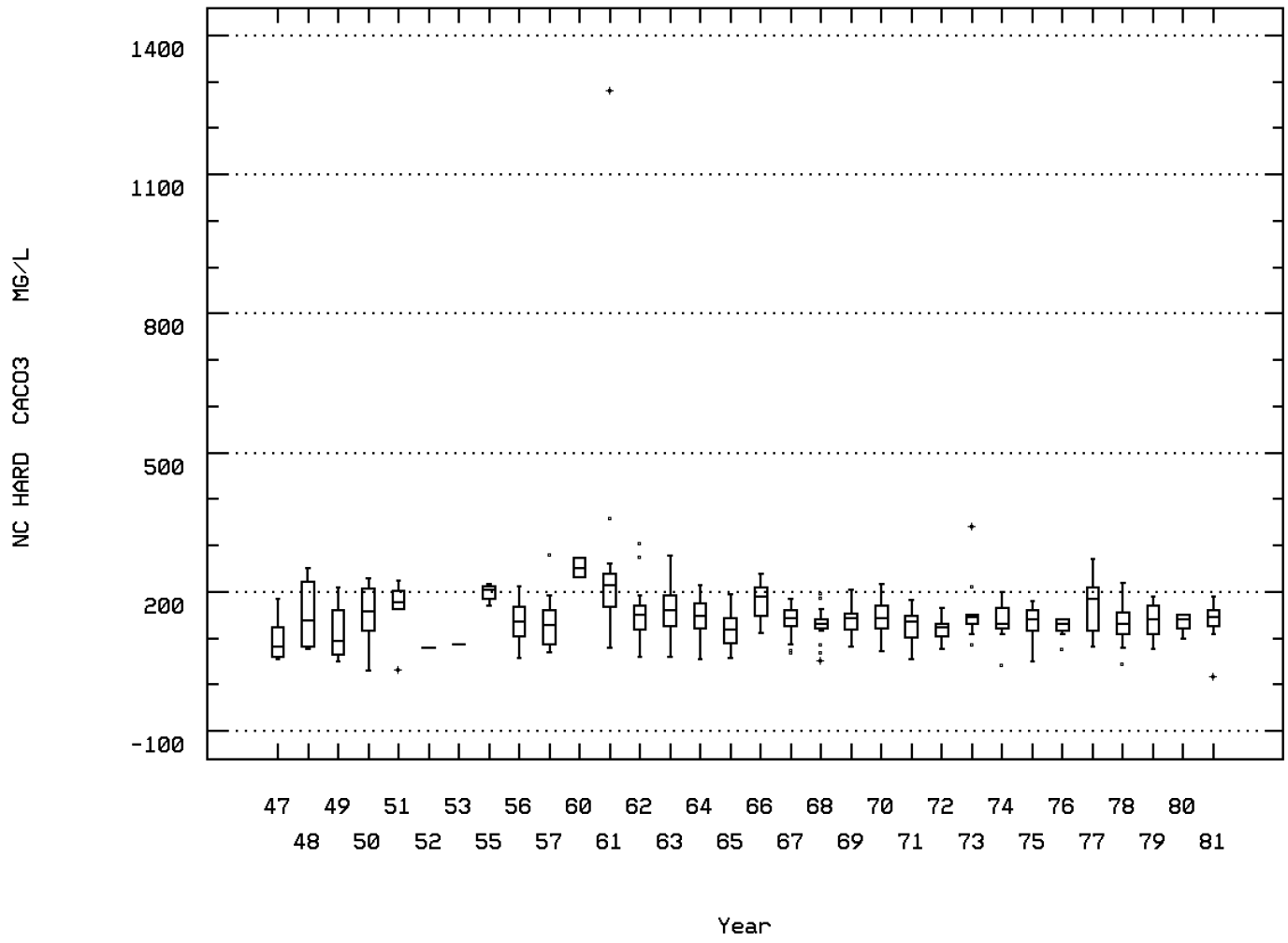
HARDNESS, TOTAL (MG/L AS CACO3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00902

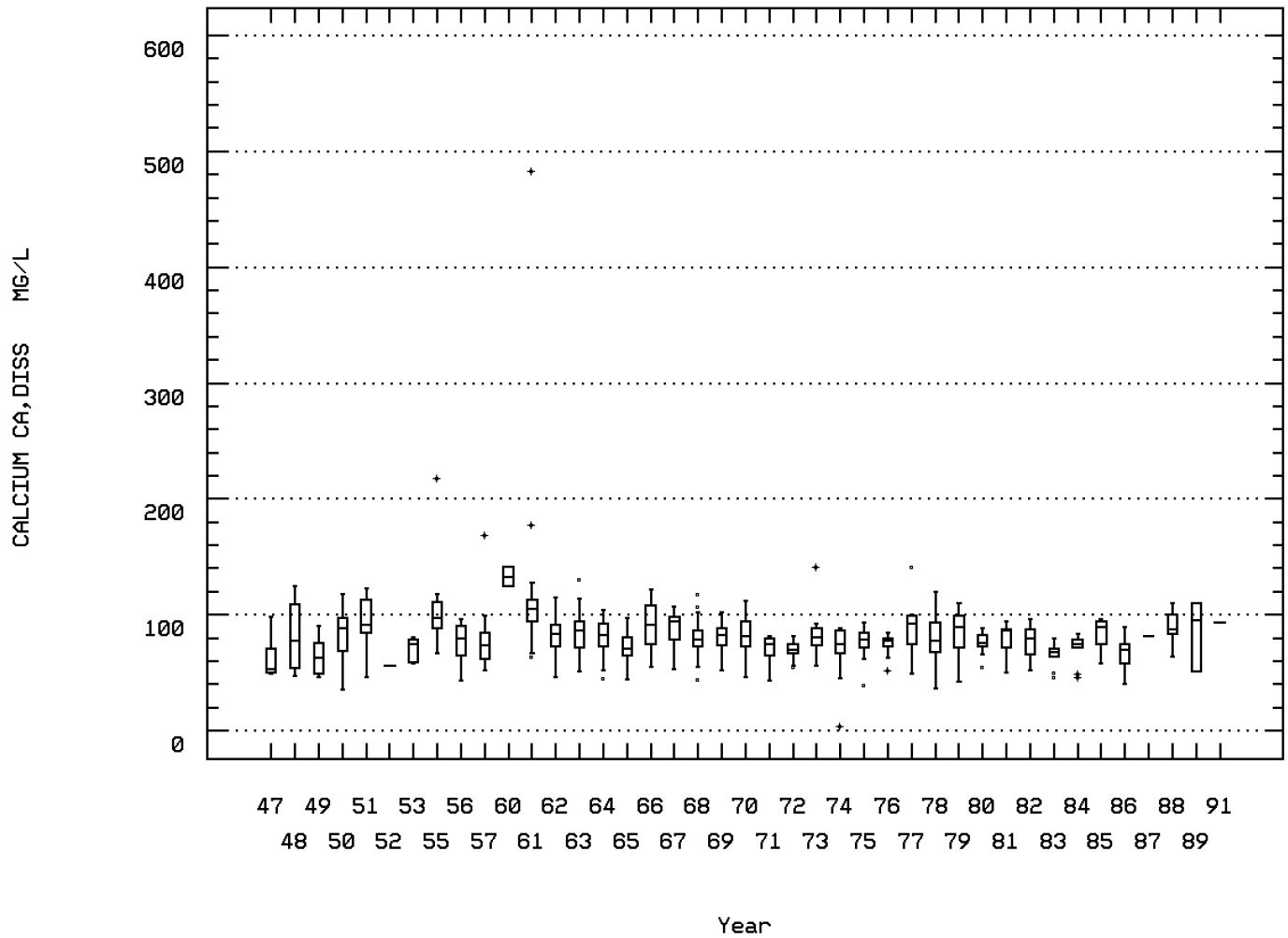
HARDNESS, NON-CARBONATE (MG/L AS CACO3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00915

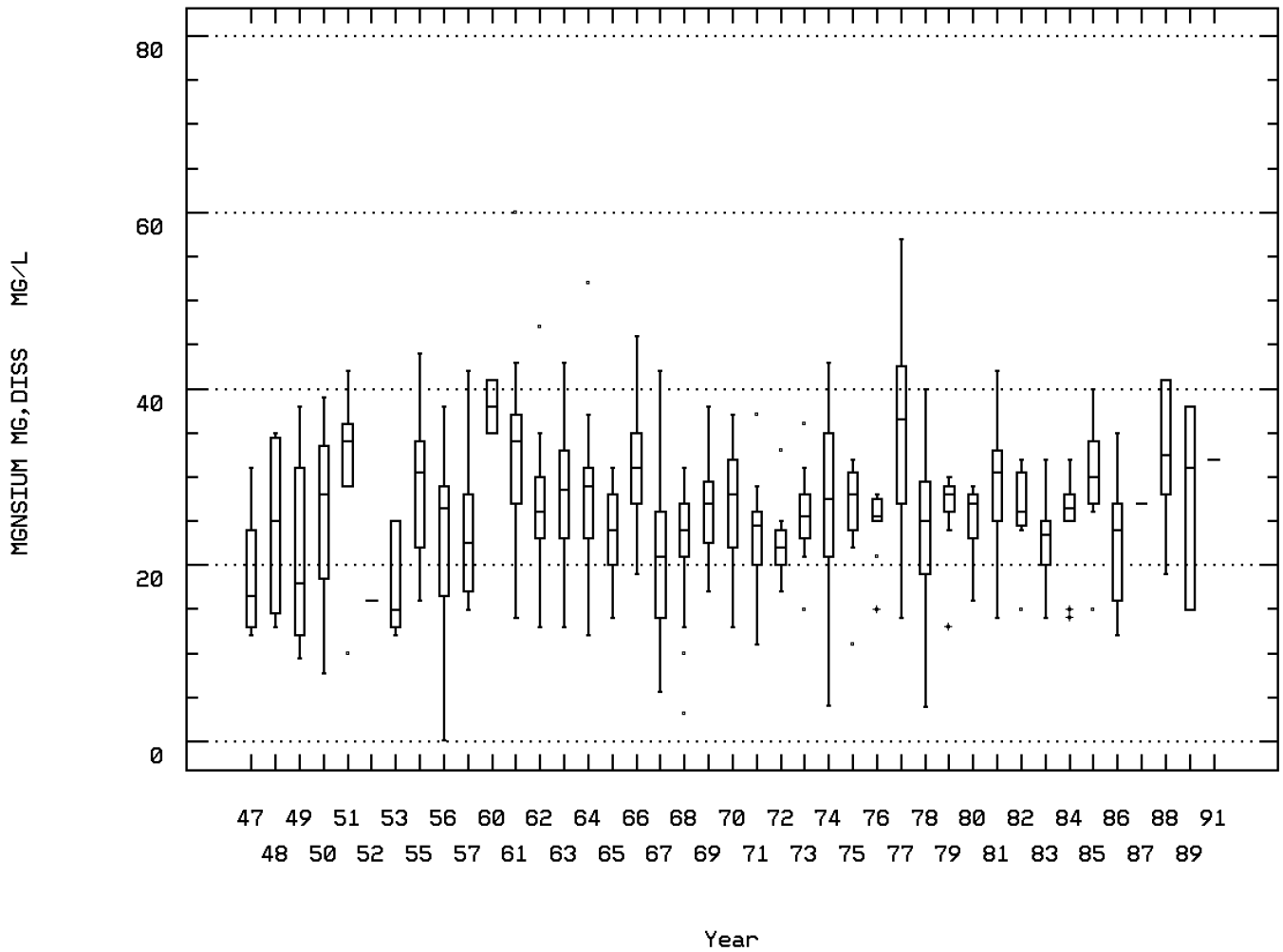
CALCIUM, DISSOLVED (MG/L AS CA)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00925

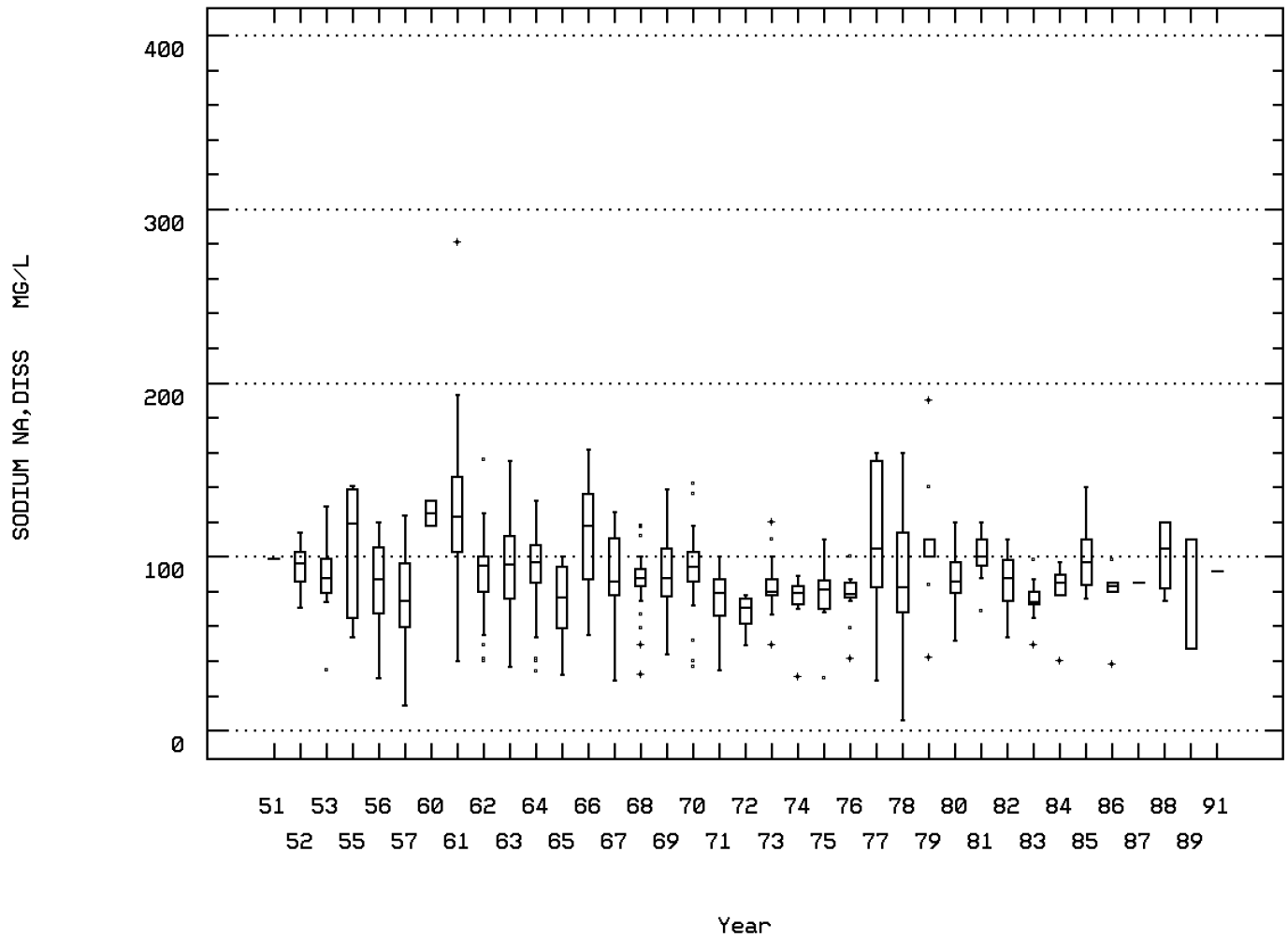
MAGNESIUM, DISSOLVED (MG/L AS MG)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00930

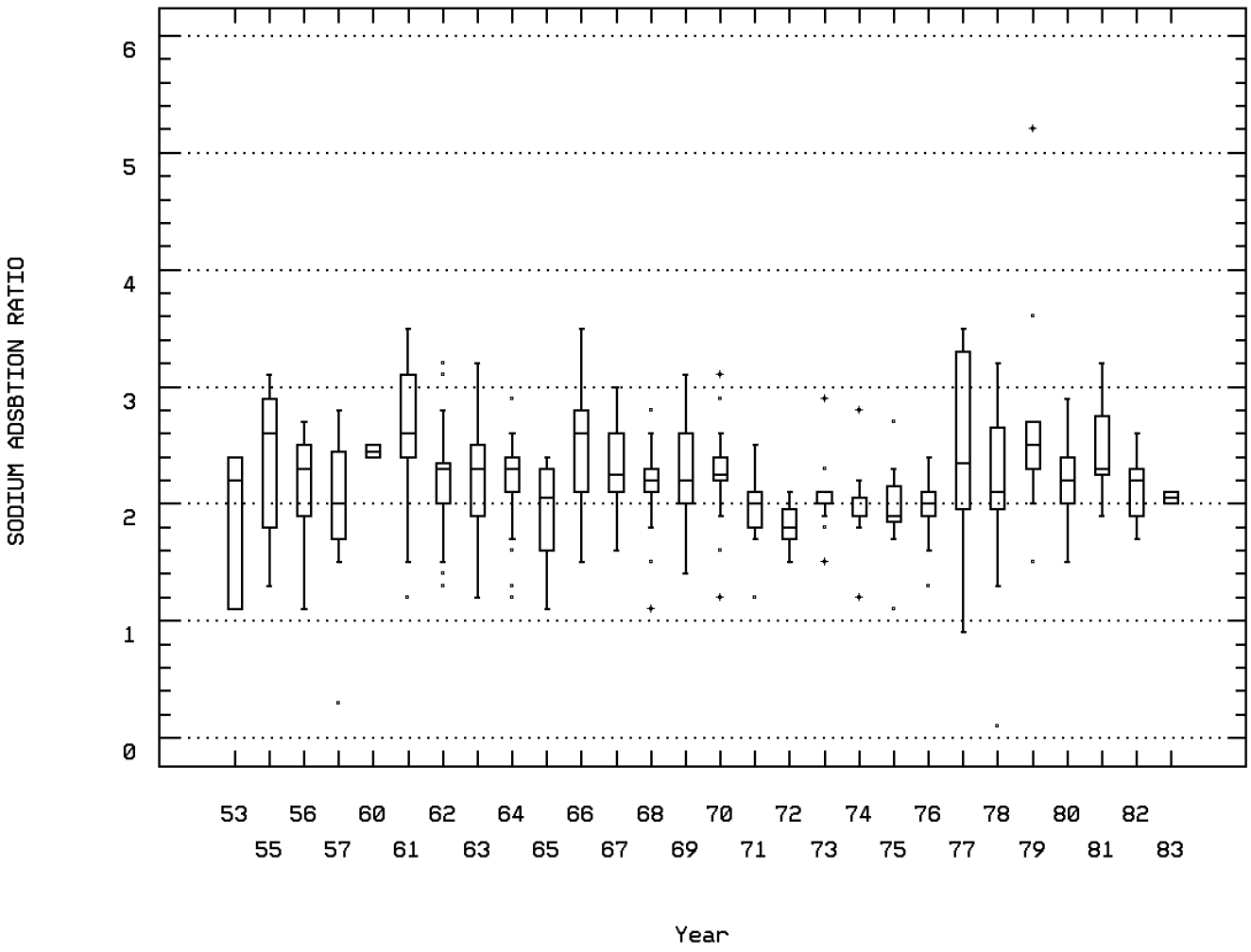
SODIUM, DISSOLVED (MG/L AS NA)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00931

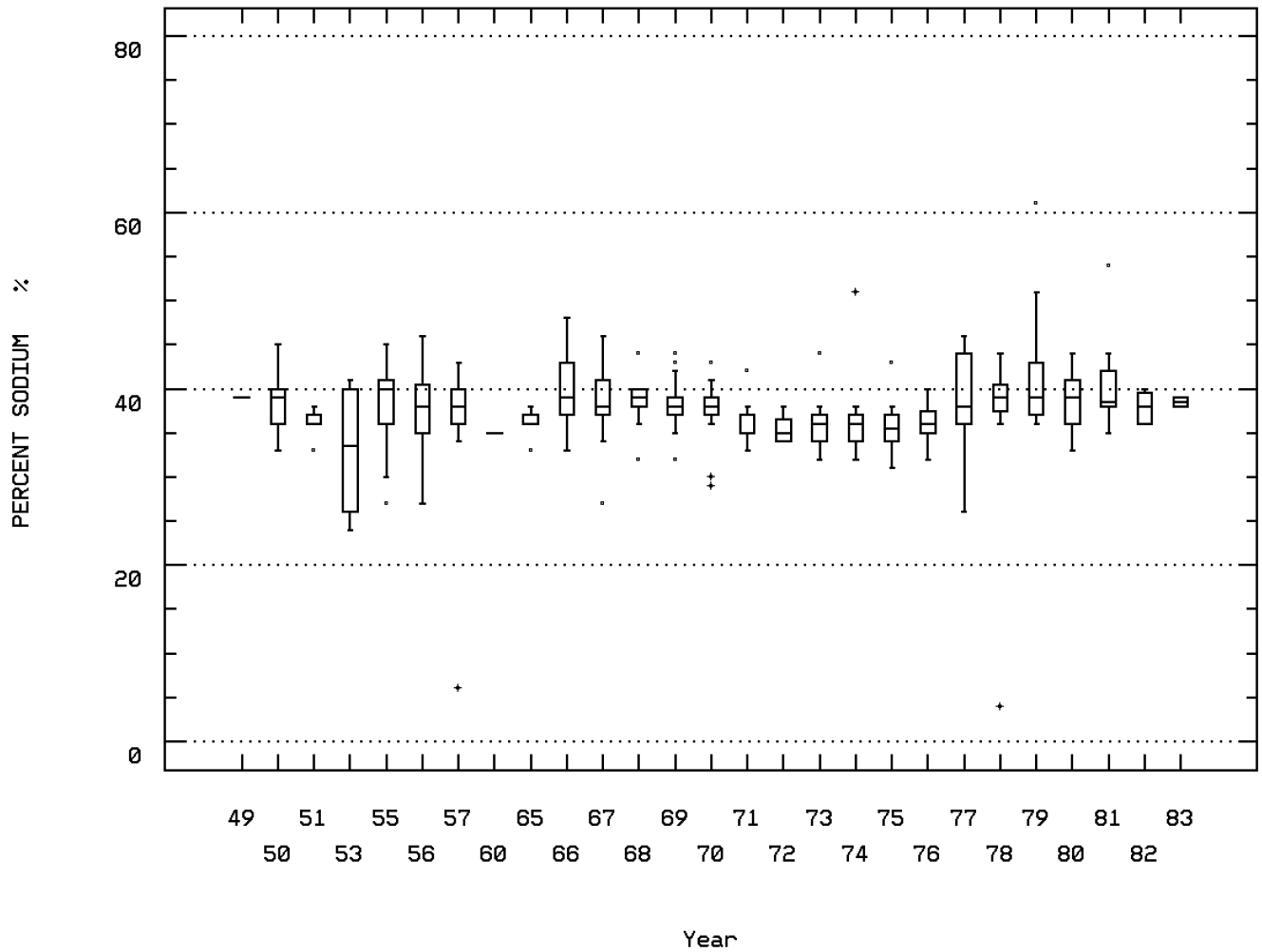
SODIUM ADSORPTION RATIO



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00932

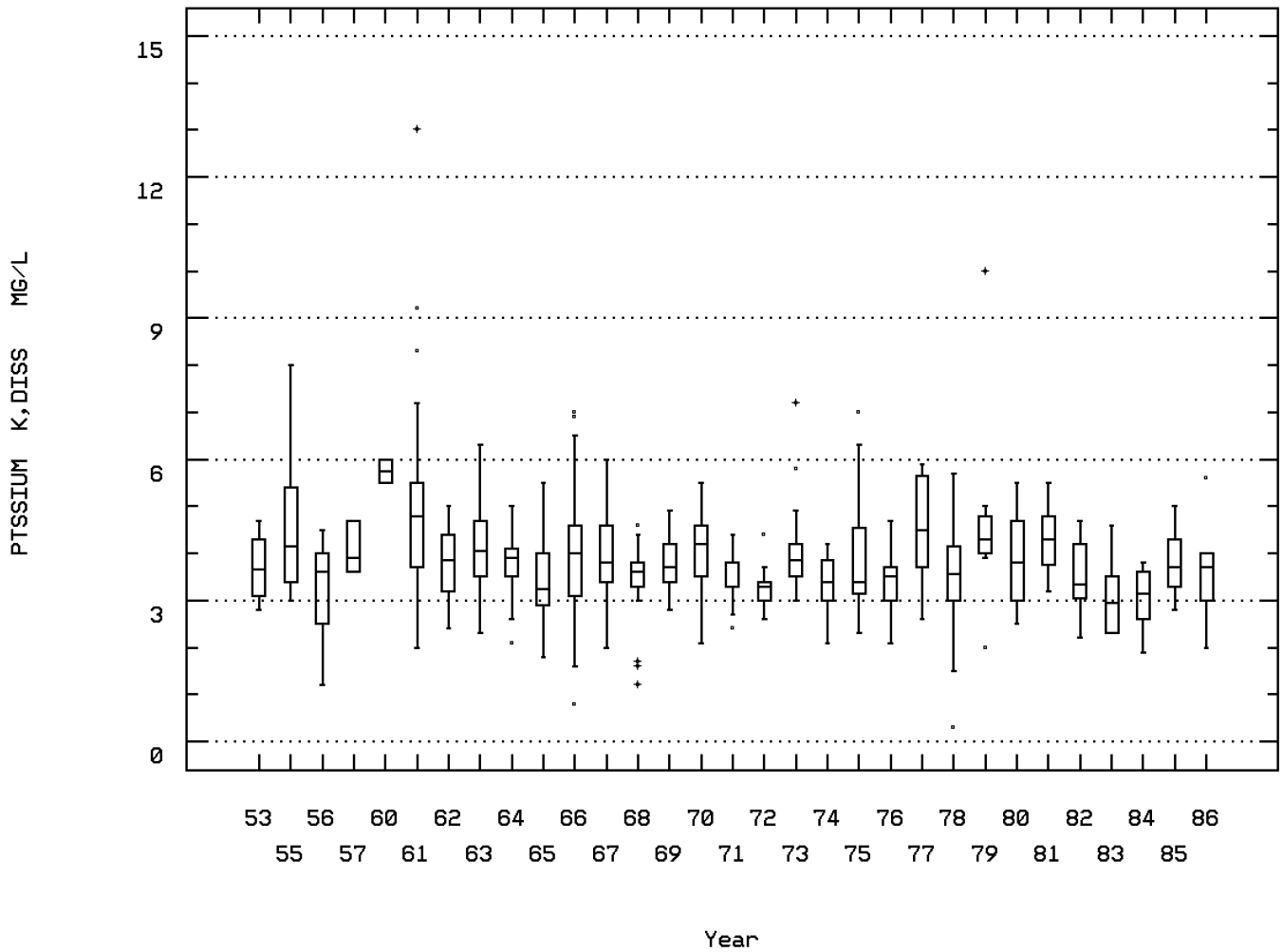
SODIUM, PERCENT



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00935

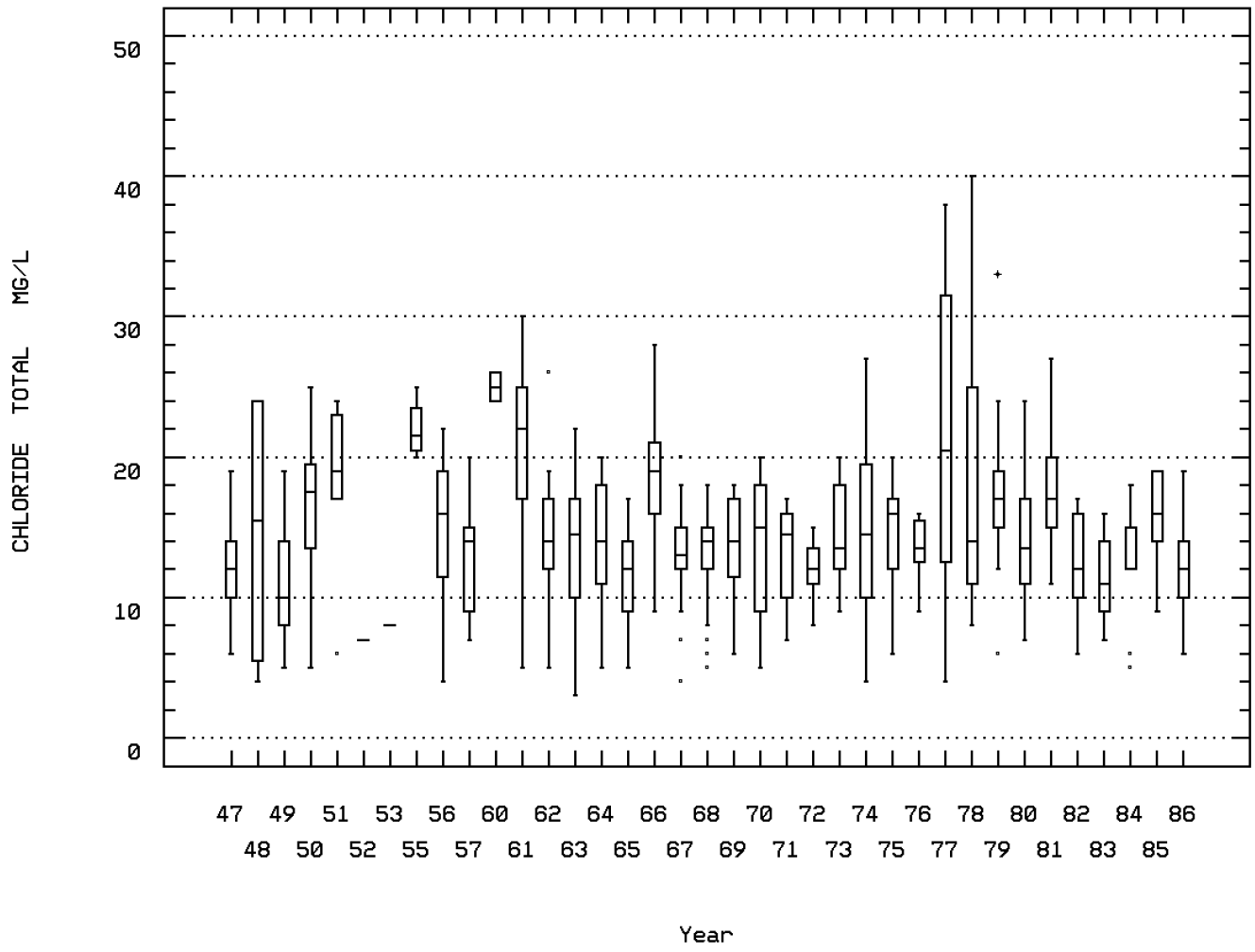
POTASSIUM, DISSOLVED (MG/L AS K)



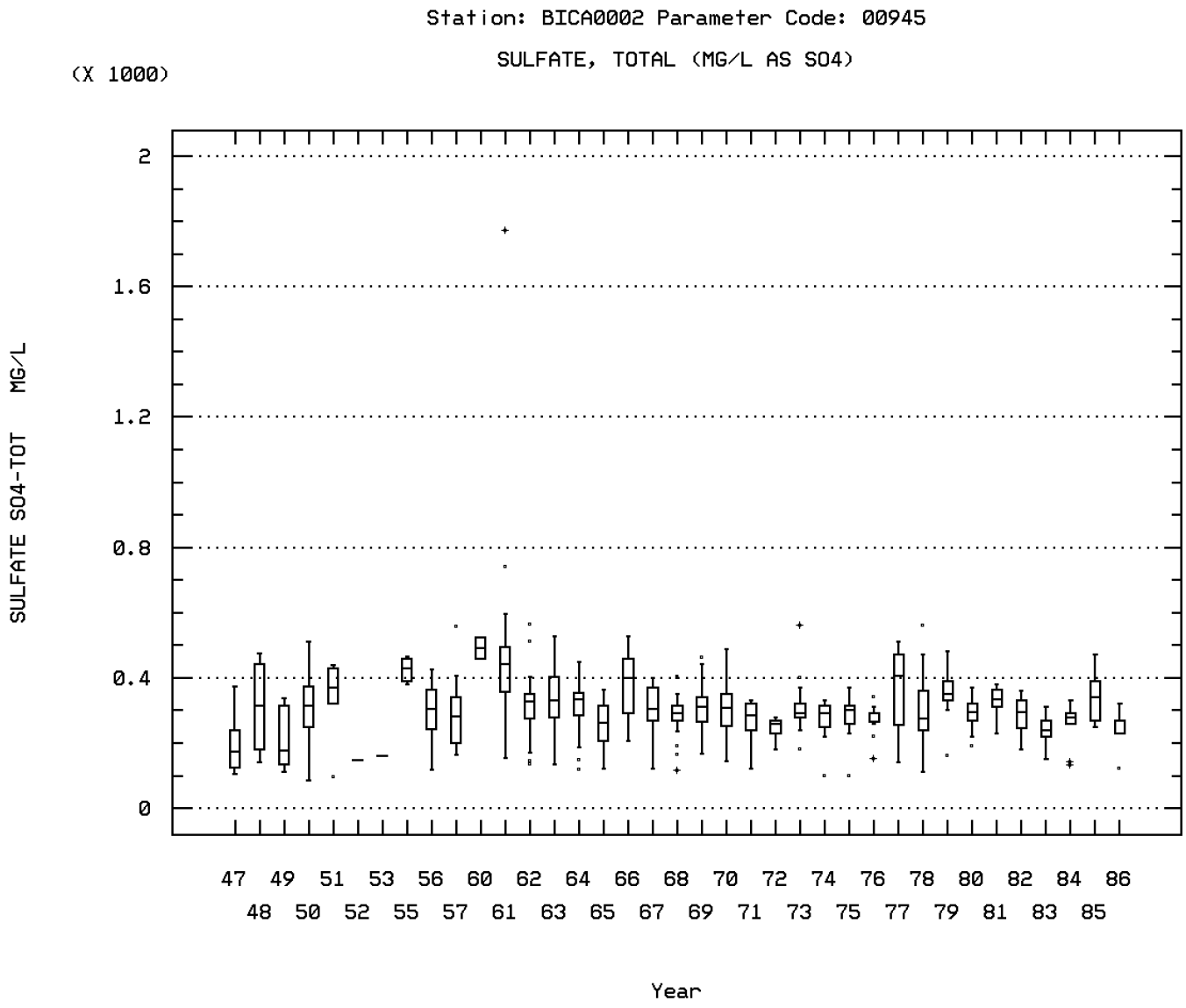
BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00940

CHLORIDE,TOTAL IN WATER



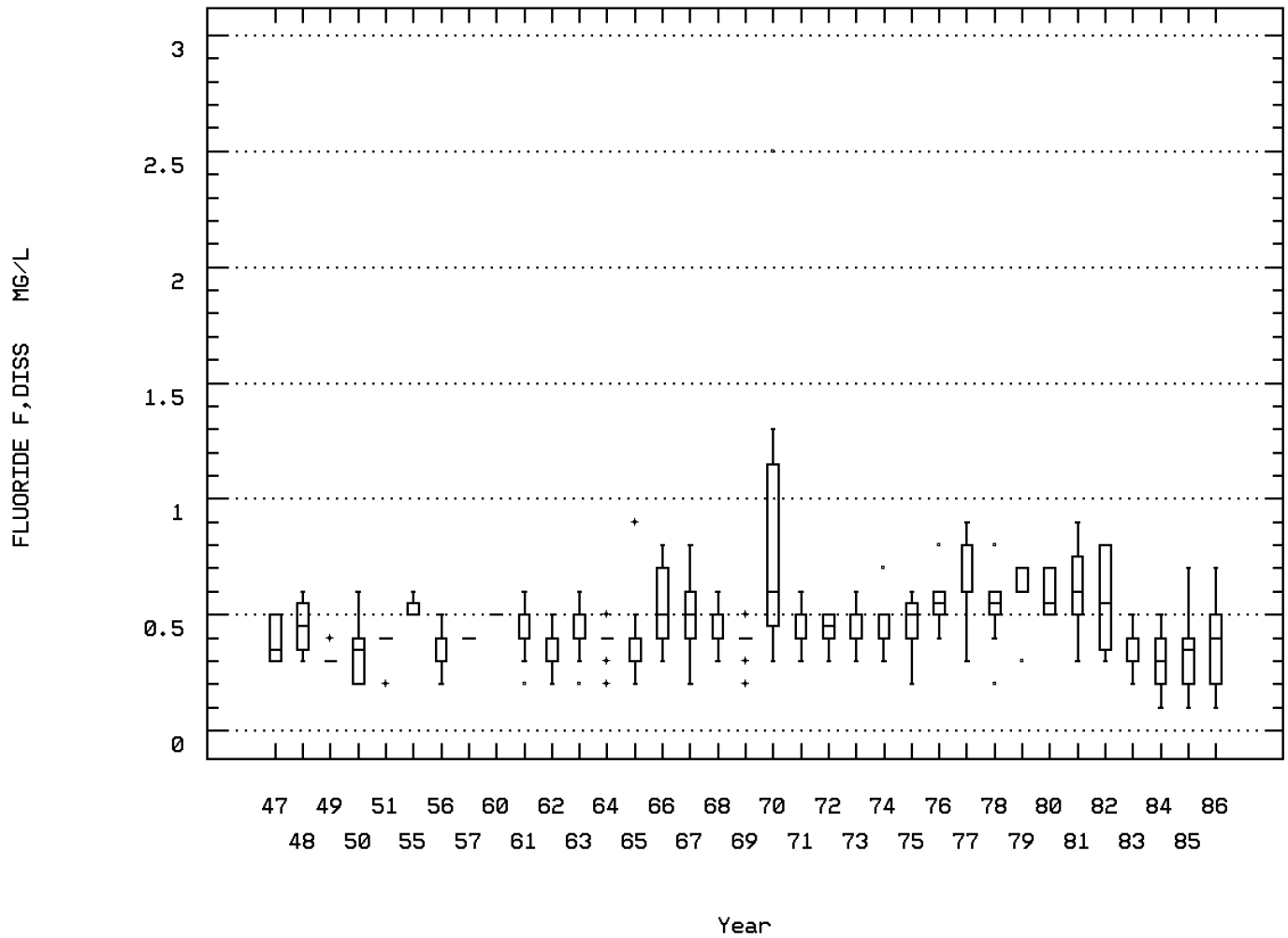
BIGHORN R AT KANE WYO



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00950

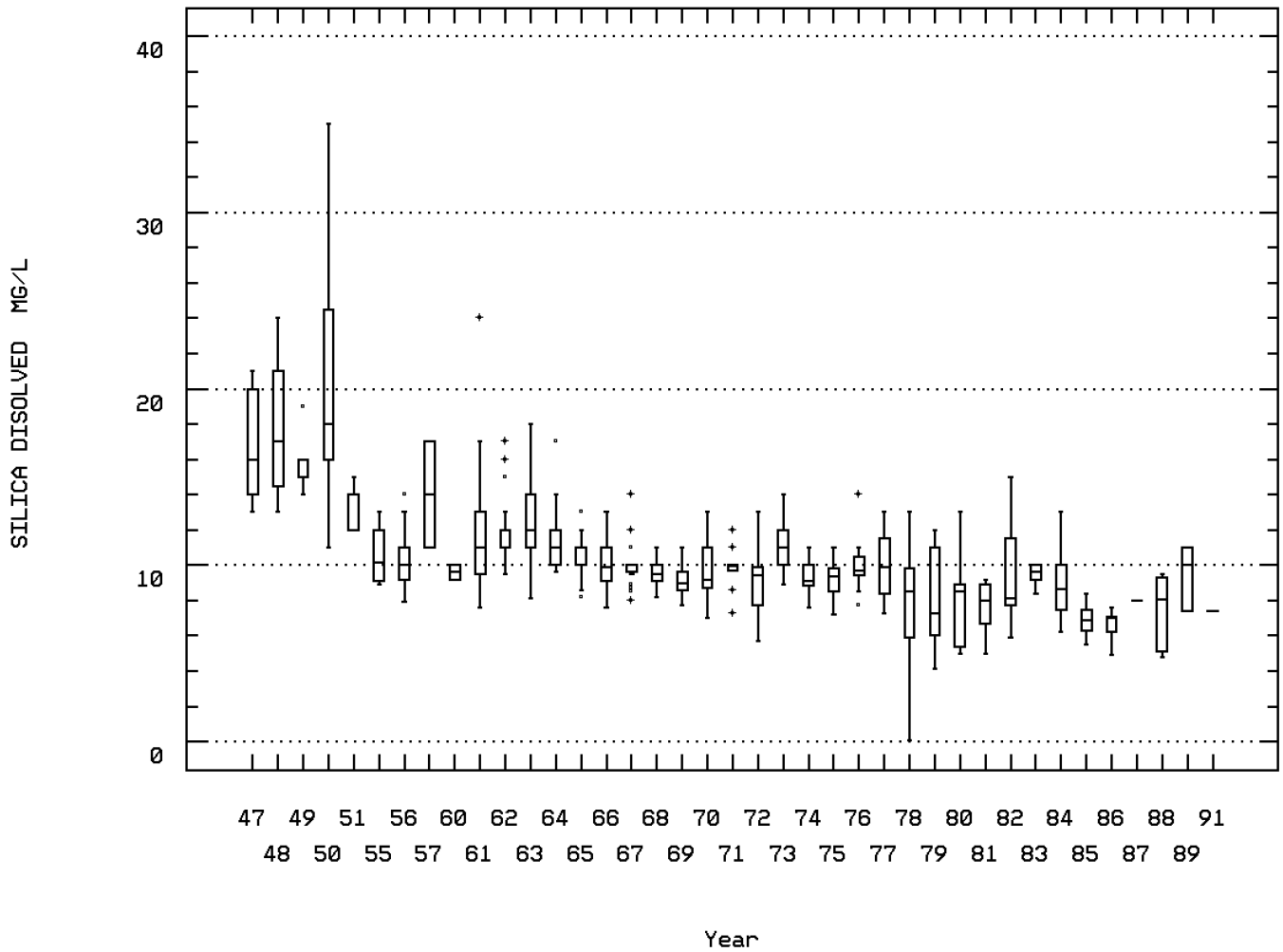
FLUORIDE, DISSOLVED (MG/L AS F)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00955

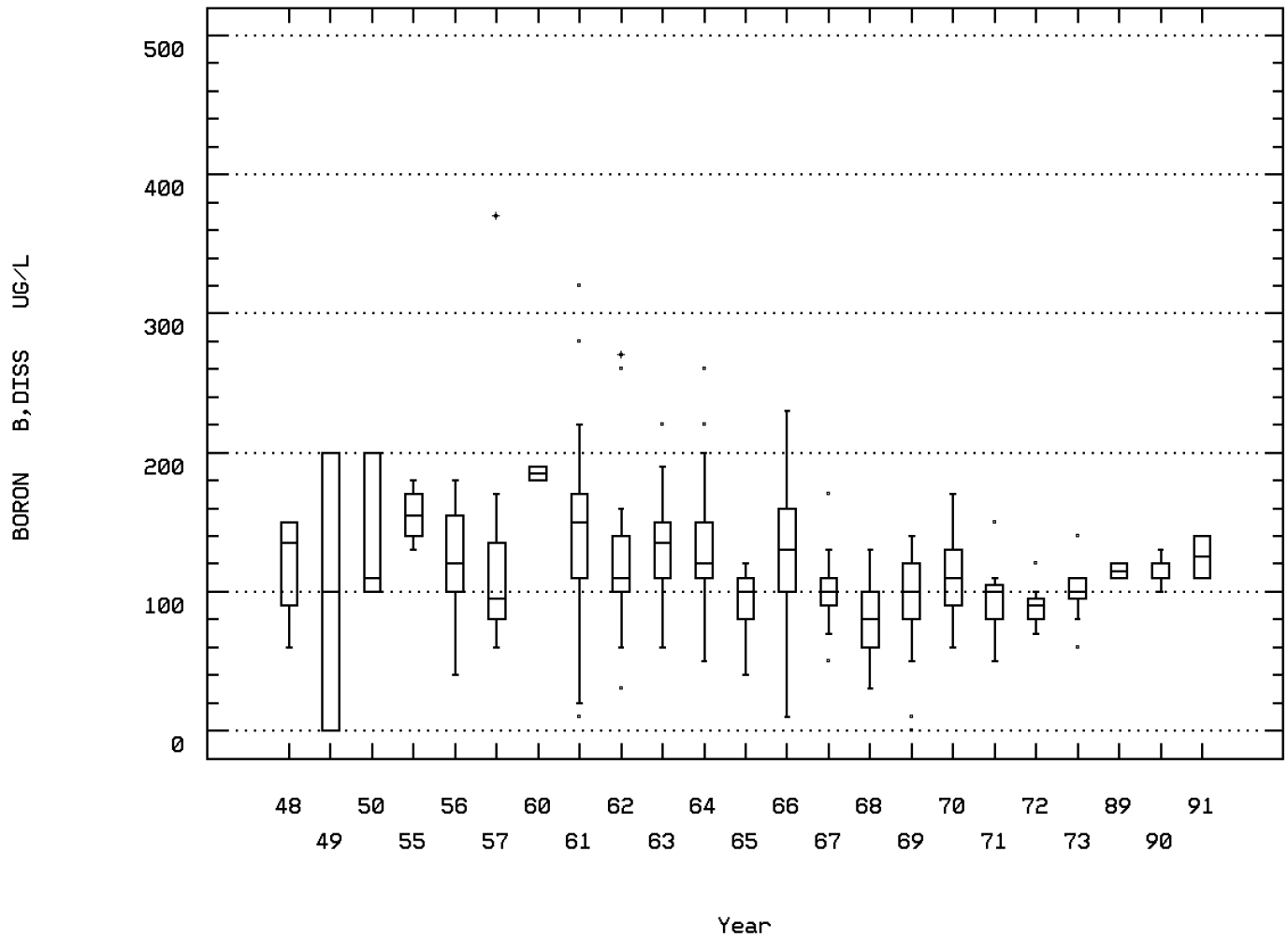
SILICA, DISSOLVED (MG/L AS SI02)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 01020

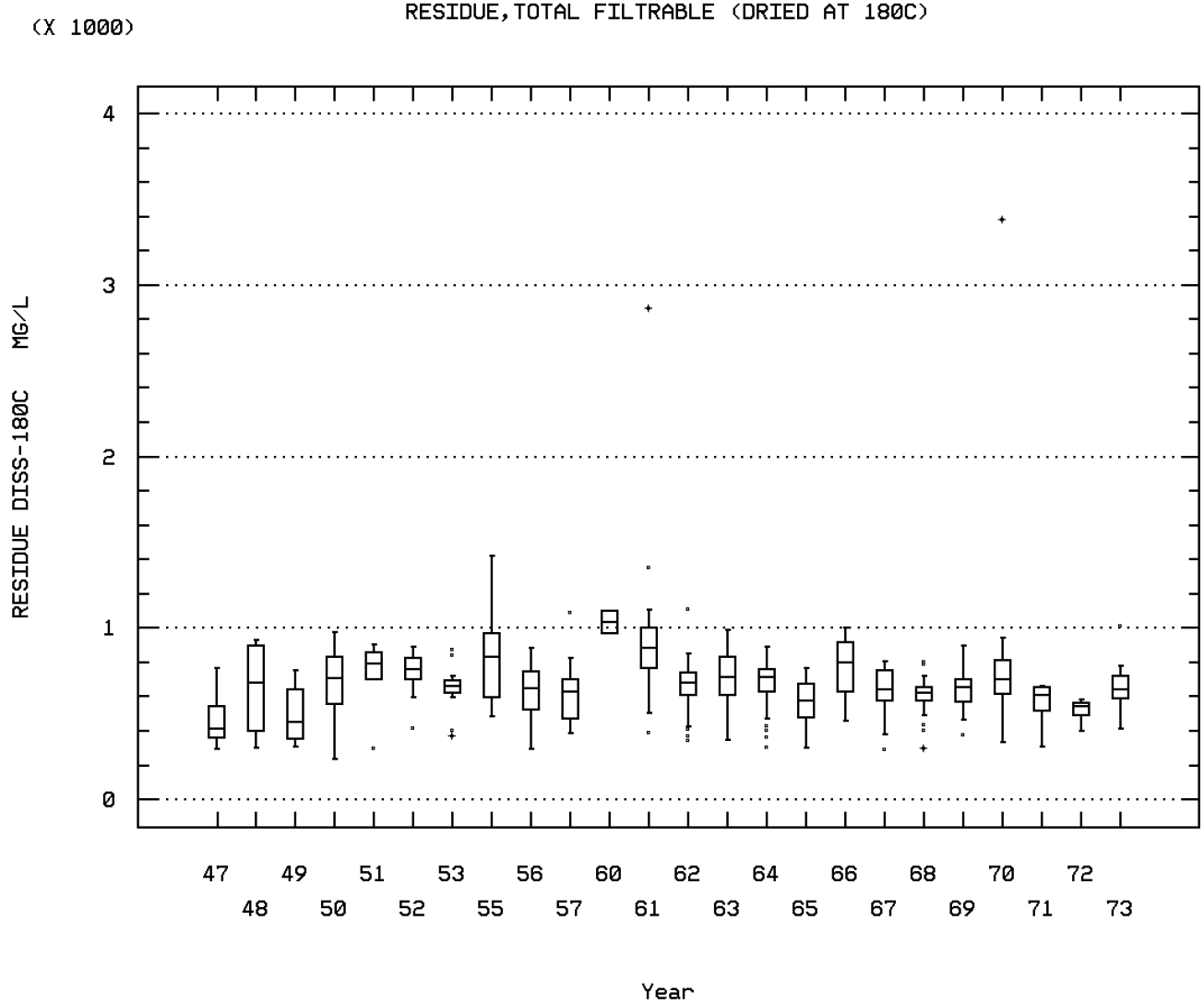
BORON, DISSOLVED (UG/L AS B)



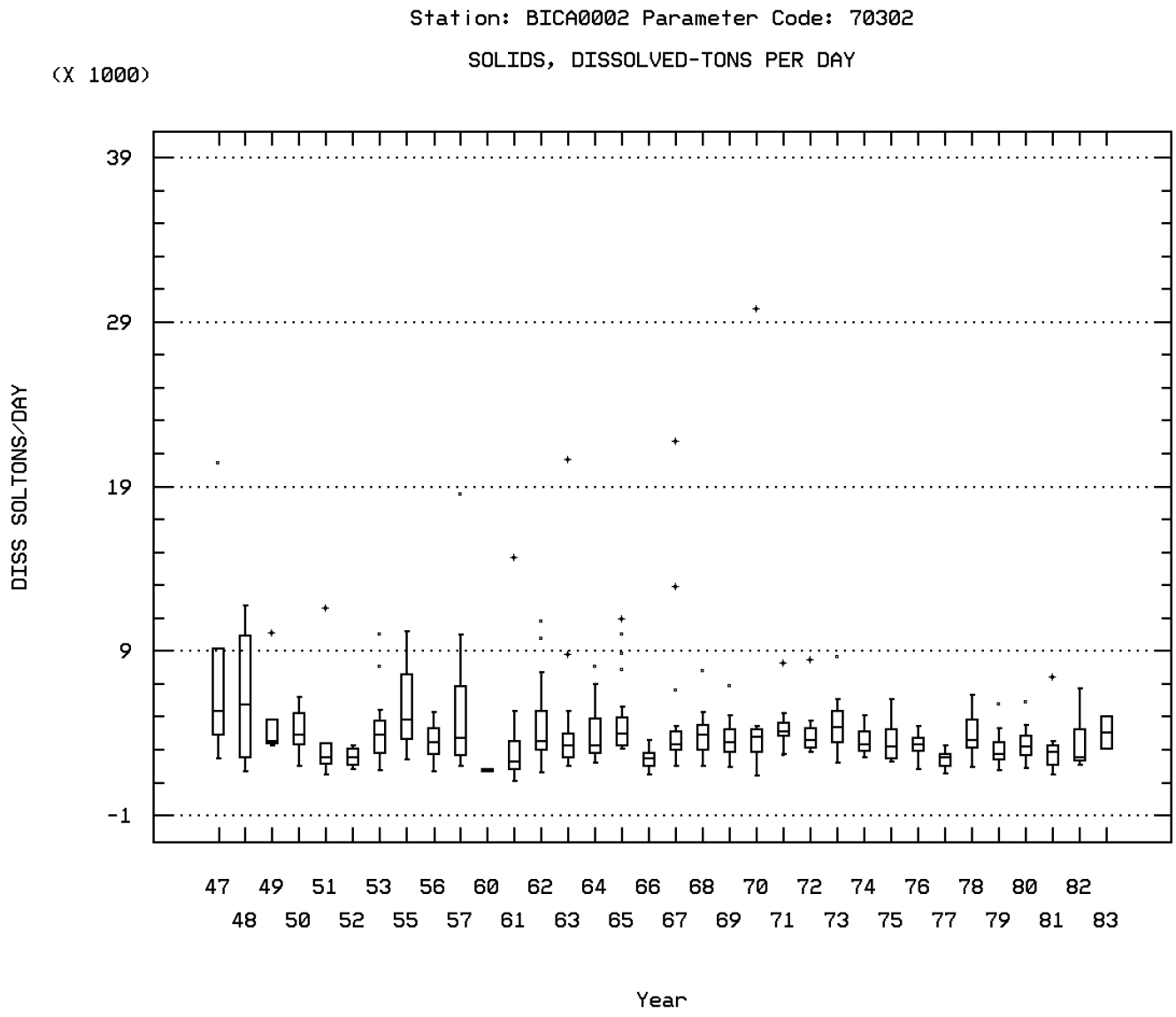
BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70300

RESIDUE,TOTAL FILTRABLE (DRIED AT 180C)



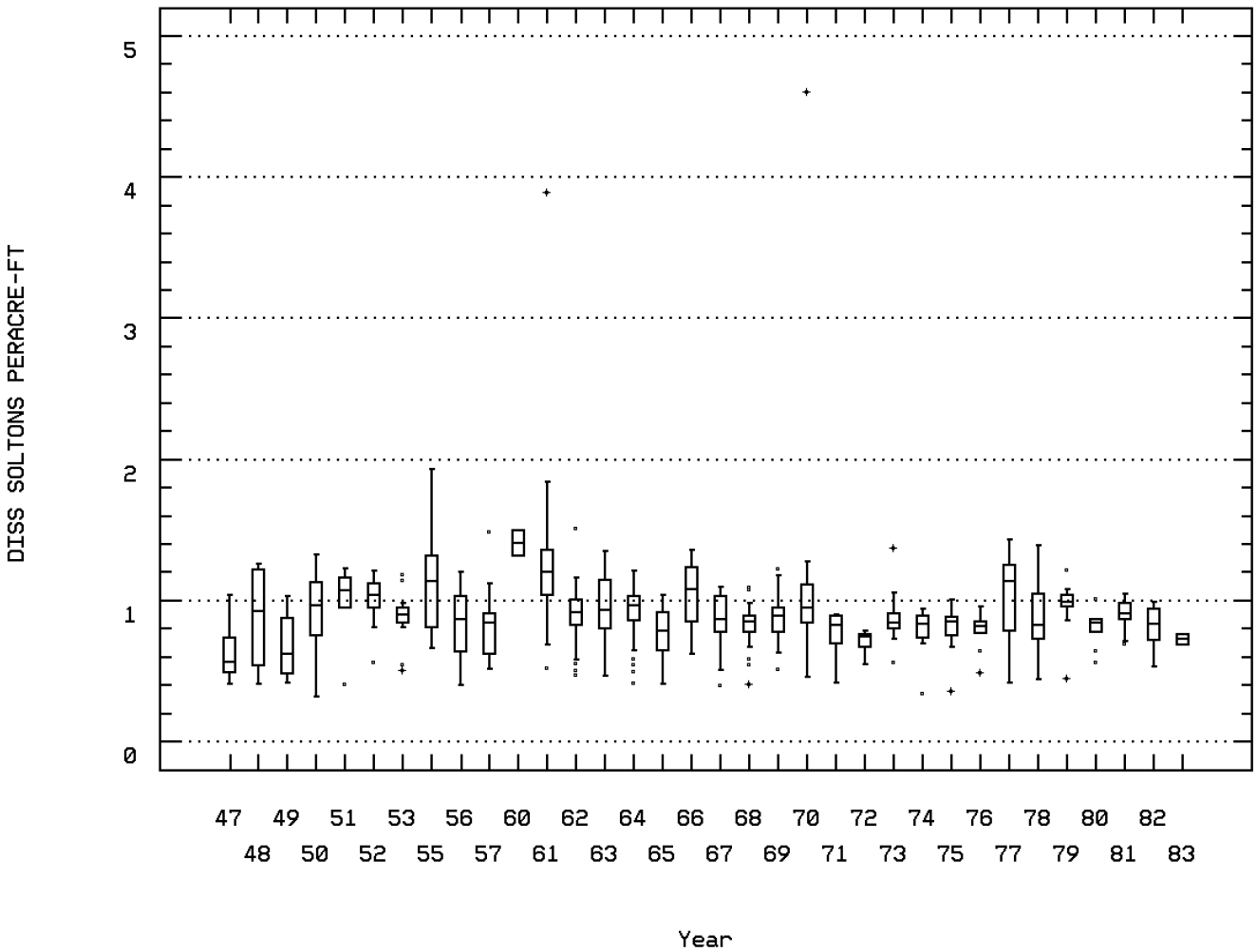
BIGHORN R AT KANE WYO



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70303

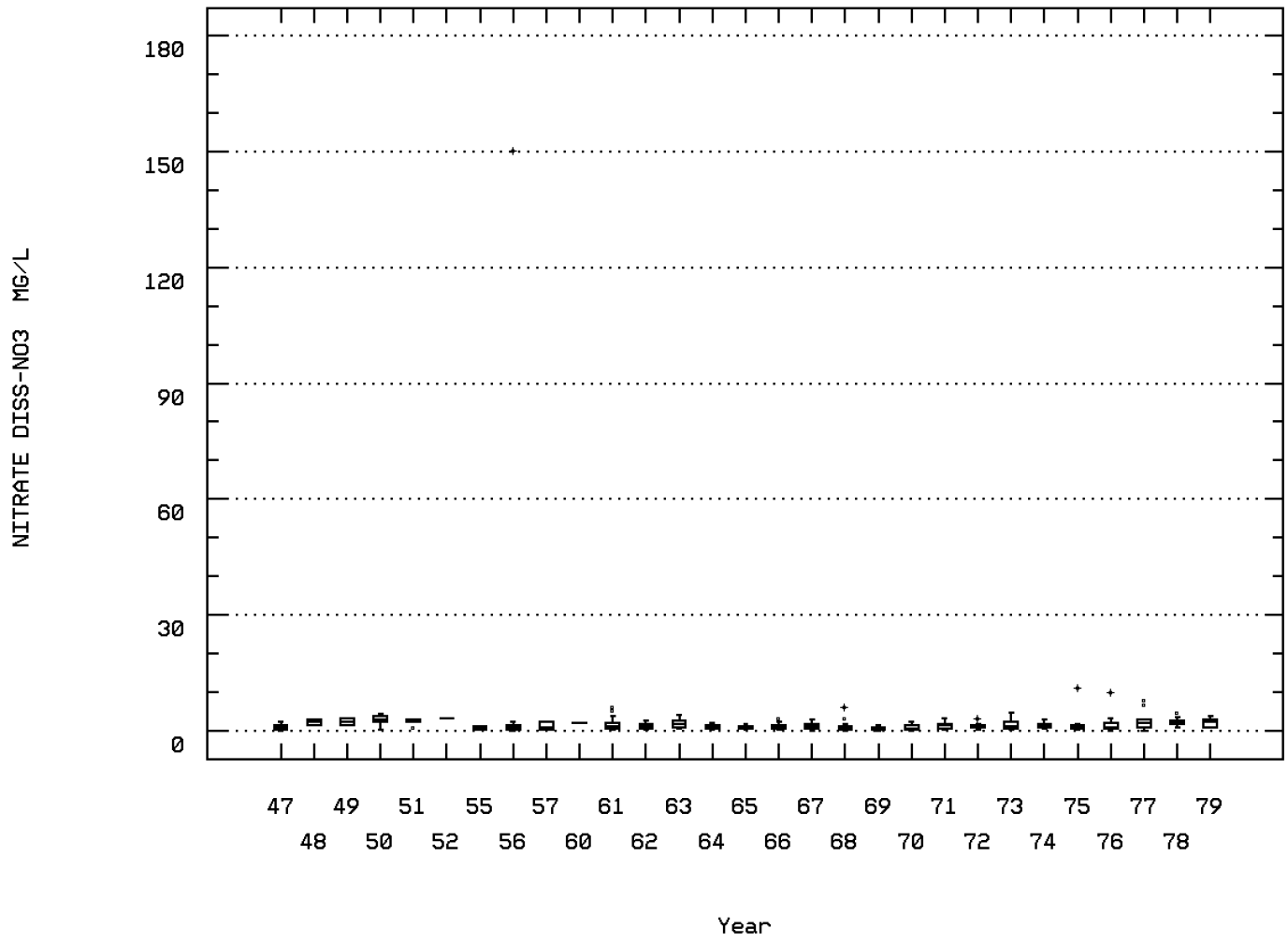
SOLIDS, DISSOLVED-TONS PER ACRE-FT



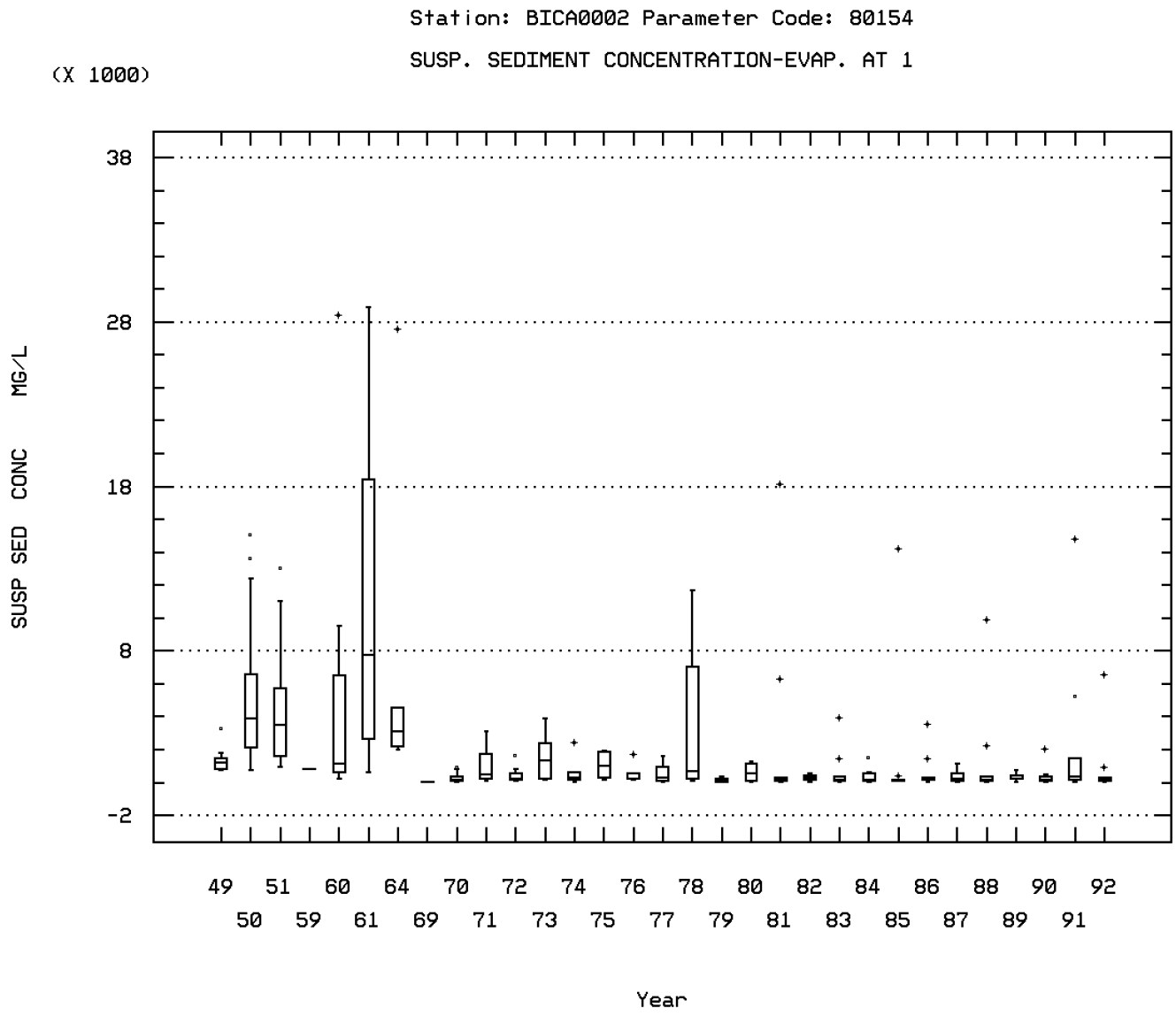
BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 71851

NITRATE NITROGEN, DISSOLVED (MG/L AS NO



BIGHORN R AT KANE WYO



BIGHORN R AT KANE WYO

Seasonal Analysis for Season #1: 8/10 to 4/14 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	261	6.5	7.675	24.5	0.	50.064	7.076	0.	0.5	13.5	19.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/02/75-04/14/97	110	10.75	10.485	41.	-18.	108.366	10.41	3.55	7.375	20.	25.
00025	BAROMETRIC PRESSURE (MM OF HG)	02/16/84-04/14/97	20	671.	670.55	689.	644.	109.839	10.48	660.2	663.25	679.	684.9
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	290	1705.	1762.945	5038.	475.	436784.122	660.896	887.2	1263.	2203.25	2690.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/49-04/14/97	250	1695.	1781.684	5130.	598.	548690.241	740.736	900.6	1250.	2150.	2857.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/10/73-07/29/80	51	10.	170.814	3900.	1.	338370.53	581.696	1.2	4.	70.	538.
00080	COLOR (PLATINUM-COBALT UNITS)	11/01/56-11/19/69	94	5.	5.	18.	0.	6.301	2.51	3.	3.75	6.	7.5
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	414	998.5	1019.829	1850.	560.	28244.975	168.062	835.5	902.75	1122.5	1235.
00300p	OXYGEN, DISSOLVED MG/L	08/29/69-04/14/97	81	10.6	10.544	14.	7.6	2.081	1.443	8.6	9.25	11.8	12.4
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	312	7.85	7.886	9.7	7.	0.117	0.342	7.5	7.6	8.1	8.3
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	312	7.847	7.764	9.7	7.	0.132	0.363	7.5	7.6	8.1	8.3
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	312	0.014	0.017	0.1	0.	0.	0.014	0.005	0.008	0.025	0.032
00403	PH, LAB, STANDARD UNITS SU	10/17/80-03/14/91	49	8.1	8.092	8.4	7.4	0.05	0.223	7.8	7.95	8.3	8.4
00403	CONVERTED PH, LAB, STANDARD UNITS	10/17/80-03/14/91	49	8.1	8.029	8.4	7.4	0.054	0.231	7.8	7.95	8.3	8.4
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/17/80-03/14/91	49	0.008	0.009	0.04	0.004	0.	0.006	0.004	0.005	0.011	0.016
00405	CARBON DIOXIDE (MG/L AS CO2)	11/30/71-10/07/81	51	2.4	3.133	9.6	0.1	5.005	2.237	1.08	1.7	4.	7.3
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/47-09/04/80	201	176.	177.527	250.	116.	473.35	21.757	153.2	161.5	190.	202.
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	295	217.	217.905	303.	141.	611.855	24.736	190.	200.	230.	250.
00445p	CARBONATE ION (MG/L AS CO3)	10/03/50-12/17/81	260	0.	0.158	12.	0.	1.068	1.033	0.	0.	0.	0.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/20/80-07/28/89	38	0.07	0.101	0.6	0.005	0.012	0.111	0.02	0.03	0.12	0.165
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/30/71-08/23/79	57	0.25	0.455	2.5	0.	0.24	0.489	0.09	0.18	0.54	0.924
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/20/80-07/28/89	39	0.62	0.786	3.4	0.2	0.295	0.543	0.4	0.55	0.93	1.1
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/20/80-07/28/89	38	0.27	0.315	0.8	0.1	0.03	0.173	0.129	0.2	0.4	0.6
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/04/79-06/06/86	48	0.3	0.441	2.4	0.	0.213	0.461	0.2	0.2	0.475	0.72
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/19/69-07/28/89	104	0.065	0.142	3.4	0.	0.147	0.384	0.005	0.02	0.11	0.28
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	306	330.	338.533	521.	210.	2748.328	52.425	280.	300.	368.	411.9
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	294	151.	160.163	303.	84.	1359.905	36.877	120.	133.	181.25	212.5
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	335	85.	86.896	141.	3.	234.082	15.3	71.	77.	94.	108.8
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	335	29.	29.118	57.	0.2	40.72	6.381	23.	25.	32.	37.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	330	94.	97.984	190.	5.8	466.048	21.588	76.1	84.	110.	124.
00931p	SODIUM ADSORPTION RATIO	03/11/53-02/16/83	285	2.3	2.331	5.2	0.1	0.173	0.415	1.9	2.1	2.5	2.8
00932p	SODIUM, PERCENT	12/01/49-02/16/83	215	38.	38.279	61.	4.	16.725	4.09	35.	36.	40.	42.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/11/53-06/06/86	296	3.9	4.044	10.	0.8	0.887	0.942	3.1	3.5	4.4	5.
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	325	16.	16.575	40.	9.	19.943	4.466	12.	14.	19.	22.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	325	321.	337.329	563.	196.	4965.999	70.47	260.	290.	373.5	445.2
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	312	0.5	0.496	2.5	0.1	0.039	0.197	0.3	0.4	0.6	0.7
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	321	10.	10.417	35.	2.2	9.55	3.09	7.6	9.	11.	13.
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/01/70-03/14/91	18	1.	4.444	60.	0.	193.614	13.915	0.	0.5	1.25	10.5
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/01/70-03/14/91	16	57.	56.563	68.	39.	54.263	7.366	46.7	52.	61.5	66.6
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/01/70-03/14/91	15 ##	0.25	0.383	1.5	0.	0.186	0.432	0.	0.25	0.25	1.2
01020p	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	223	110.	120.538	260.	0.	1395.205	37.352	80.	100.	140.	170.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/01/70-03/14/91	18	0.5	0.889	3.	0.	0.81	0.9	0.	0.5	1.	3.
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/01/70-03/14/91	20 ##	2.5	2.6	7.5	0.5	2.779	1.667	0.55	2.	2.5	5.8
01035	COBALT, DISSOLVED (UG/L AS CO)	10/01/70-03/14/91	12 ##	1.5	2.042	4.5	1.5	1.157	1.076	1.5	1.5	2.25	4.35
01040	COPPER, DISSOLVED (UG/L AS CU)	10/01/70-03/14/91	20 ##	5.	4.35	5.	1.	1.082	1.04	3.	4.	5.	5.
01045	IRON, TOTAL (UG/L AS FE)	03/26/47-09/15/71	50	20.	32.94	220.	0.	2417.894	49.172	0.	0.	40.	117.
01046	IRON, DISSOLVED (UG/L AS FE)	01/26/71-03/14/91	30	57.5	78.6	280.	0.	5442.386	73.773	8.1	18.25	112.5	209.
01049	LEAD, DISSOLVED (UG/L AS PB)	10/01/70-03/14/91	20 ##	5.	3.8	7.5	0.5	4.379	2.093	0.55	1.25	5.	5.9
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/01/70-03/14/91	18	10.	13.167	30.	2.	75.324	8.679	2.9	6.	18.5	29.1
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/01/70-08/30/89	13 ##	5.	3.808	5.	0.	3.314	1.82	0.4	2.25	5.	5.
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/01/70-08/30/89	13 ##	5.	5.5	12.	1.	9.083	3.014	1.	5.	6.25	11.2
01075	SILVER, DISSOLVED (UG/L AS AG)	10/01/70-03/14/91	18 ##	0.5	0.736	3.	0.	0.489	0.699	0.225	0.5	0.625	2.1
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/01/70-03/14/91	12	960.	979.167	1200.	720.	23790.152	154.241	753.	865.	1150.	1200.
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/01/70-08/30/89	11 ##	3.	3.636	7.5	2.5	2.505	1.583	2.6	3.	3.	7.2
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/01/70-03/14/91	17	19.	24.529	130.	4.	852.765	29.202	6.4	7.5	30.	58.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/01/70-03/14/91	9	20.	26.222	74.	10.	351.444	18.747	10.	20.	26.	74.
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/01/70-03/14/91	12	47.5	47.917	72.	29.	153.72	12.398	31.1	37.25	53.5	70.5
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	10/03/76-07/28/89	58	120.	167.422	730.	0.	26571.805	163.009	21.4	53.5	230.	463.
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	10/03/76-07/28/89	58	2.079	1.95	2.863	-0.301	0.417	0.646	1.329	1.727	2.362	2.666

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

Seasonal Analysis for Season #1: 8/10 to 4/14 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			89.097								
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	09/07/71-09/04/80	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	09/07/71-09/04/80	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	11	0.	0.002	0.01	0.	0.	0.004	0.	0.	0.	0.01
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	9	0.	0.018	0.11	0.	0.001	0.036	0.	0.	0.02	0.11
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	06/20/84-08/31/92	14	0.01	0.013	0.03	0.005	0.	0.007	0.005	0.009	0.02	0.025
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	09/07/71-08/31/92	24	0.03	0.032	0.08	0.	0.001	0.022	0.005	0.02	0.04	0.075
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	09/07/71-08/31/92	24 ##	0.005	0.004	0.01	0.	0.	0.003	0.	0.	0.005	0.008
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	09/07/71-08/31/92	24 ##	0.005	0.003	0.005	0.	0.	0.003	0.	0.	0.005	0.005
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	245	710.	727.727	1110.	454.	15417.642	124.168	583.2	638.	810.5	906.8
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-02/16/83	138	633.	658.232	1050.	480.	10895.449	104.381	557.2	592.	700.	802.7
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	316	3175.01	3317.124	9750.	1300.01	1063789.093	1031.402	2107.003	2582.5	3905.	4546.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	317	0.94	0.973	1.51	0.62	0.029	0.169	0.78	0.85	1.08	1.21
70331p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/01/49-06/06/83	61	72.	68.525	99.	20.	477.987	21.863	36.4	48.5	85.5	96.6
70332p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	10/01/49-06/06/83	48	79.5	75.896	100.	38.	320.563	17.904	49.4	62.75	89.75	98.
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	10/01/49-09/19/61	45	97.	93.933	100.	70.	50.2	7.085	82.6	91.5	99.	100.
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	10/01/49-09/19/61	39	100.	98.103	100.	76.	21.937	4.684	94.	98.	100.	100.
70337p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	10/01/49-06/12/91	12	11.	16.417	36.	4.	133.174	11.54	4.6	8.	29.75	35.1
70338p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/01/49-06/12/91	68	42.	42.529	85.	7.	432.313	20.792	13.	24.75	57.5	74.2
70339p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	10/01/49-06/12/91	16	20.	31.563	69.	10.	353.996	18.815	11.4	16.5	50.75	58.5
70340p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/01/49-06/12/91	69	54.	56.797	97.	12.	567.87	23.83	24.	38.5	72.	93.
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	10/01/49-06/12/91	14	35.5	41.786	77.	15.	365.258	19.112	18.5	29.25	58.75	74.5
70342p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/01/59-06/12/91	27	84.	81.963	100.	37.	278.575	16.691	50.2	74.	98.	99.2
70343p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/01/59-06/12/91	25	92.	87.72	100.	56.	150.627	12.273	62.6	82.5	96.	98.4
70344p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	10/01/59-06/12/91	24	99.	97.583	100.	83.	13.471	3.67	93.5	97.	99.75	100.
70345p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	10/01/59-06/12/91	18	100.	99.944	100.	99.	0.056	0.236	99.9	100.	100.	100.
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	12/01/49-09/22/61	39	1.9	2.067	5.8	0.2	1.812	1.346	0.4	1.	3.	4.
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	265	1.	1.423	11.	0.	1.868	1.367	0.36	0.65	1.7	3.
71885	IRON (UG/L AS FE)	12/18/60-05/04/67	84	0.	7.738	70.	0.	234.581	15.316	0.	0.	10.	20.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/49-09/18/92	190	245.	1611.163	27600.	12.	12738039.841	3569.039	54.6	120.75	1247.5	4604.
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/59-02/26/86	78	1065.	7910.474	174000.	49.	562479516.356	23716.651	197.2	517.75	3782.5	16420.
80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	09/29/70-03/08/77	10	1.	1.09	5.	0.1	2.039	1.428	0.11	0.275	1.	4.6
80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	09/29/70-03/08/77	10	1.	2.53	14.	0.3	16.565	4.07	0.37	1.	2.	12.8
80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	09/29/70-03/08/77	10	14.5	20.5	76.	2.	481.833	21.951	2.2	5.5	27.25	71.8
80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	09/29/70-03/08/77	10	62.	55.5	90.	13.	970.944	31.16	13.9	23.5	85.	89.5
80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	09/29/70-03/08/77	10	75.	66.	96.	16.	860.889	29.341	17.8	35.5	90.5	95.9
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	09/29/70-03/08/77	10	80.	68.8	96.	17.	840.622	28.993	19.	38.5	94.5	96.
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	09/29/70-03/08/77	10	89.	73.2	99.	21.	838.844	28.963	22.7	44.75	98.	98.9
80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	09/29/70-03/08/77	10	92.	78.6	100.	32.	665.6	25.799	33.	59.25	99.25	100.
82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	06/20/84-08/31/92	14	0.02	0.021	0.04	0.005	0.	0.012	0.005	0.01	0.03	0.04
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	10/24/79-08/31/92	15 ##	0.005	0.005	0.005	0.	0.	0.001	0.003	0.005	0.005	0.005

** - Less than 9 observations ## - Computed 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: 4/15 to 6/19 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	97	15.	14.487	24.	5.5	15.261	3.907	8.98	11.	17.5	19.02
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/02/75-04/14/97	30	22.5	21.777	34.	11.	43.303	6.581	12.1	16.5	26.125	31.8
00025	BAROMETRIC PRESSURE (MM OF HG)	02/16/84-04/14/97	6	669.5	682.667	760.	655.	1507.867	38.831	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	119	3000.	3865.101	18060.	534.	8511764.617	2917.493	1210.	2070.	4890.	7194.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/49-04/14/97	100	2750.	4098.72	20700.	684.	12916275.173	3593.922	1215.	1820.	5080.	8927.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/10/73-07/29/80	16	95.	207.813	650.	20.	44046.563	209.873	27.	51.25	337.5	650.
00080	COLOR (PLATINUM-COBALT UNITS)	11/01/56-11/19/69	30	5.	5.7	11.	0.	7.114	2.667	3.	3.75	7.25	9.8
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	142	793.5	794.676	1430.	426.	54145.086	232.691	493.3	594.	979.25	1100.
00300p	OXYGEN, DISSOLVED MG/L	08/29/69-04/14/97	23	9.1	9.265	13.1	7.8	1.35	1.162	7.92	8.3	9.9	10.44
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	116	7.8	7.804	8.8	6.8	0.147	0.383	7.27	7.6	8.1	8.3
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	116	7.8	7.628	8.8	6.8	0.178	0.422	7.27	7.6	8.1	8.3
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	116	0.016	0.024	0.158	0.002	0.001	0.026	0.005	0.008	0.025	0.054
00403	PH, LAB, STANDARD UNITS SU	10/17/80-03/14/91	12	8.	8.092	8.5	7.7	0.05	0.223	7.76	8.	8.275	8.47
00403	CONVERTED PH, LAB, STANDARD UNITS	10/17/80-03/14/91	12	8.	8.042	8.5	7.7	0.053	0.229	7.76	8.	8.275	8.47
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/17/80-03/14/91	12	0.01	0.009	0.02	0.003	0.	0.004	0.003	0.005	0.01	0.018
00405	CARBON DIOXIDE (MG/L AS CO2)	11/30/71-10/07/81	14	2.	2.343	7.1	0.8	2.624	1.62	0.9	1.3	2.75	5.55
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/47-09/04/80	74	148.	145.757	246.	82.	880.57	29.674	103.5	124.	169.25	180.
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	107	178.	176.664	300.	100.	1213.471	34.835	131.8	148.	202.	221.
00445p	CARBONATE ION (MG/L AS CO3)	10/03/50-12/17/81	83	0.	0.494	16.	0.	4.985	2.233	0.	0.	0.	0.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/20/80-07/28/89	10	0.05	0.067	0.16	0.03	0.002	0.043	0.03	0.038	0.09	0.156
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/30/71-08/23/79	15	0.29	0.311	0.68	0.02	0.041	0.202	0.02	0.14	0.45	0.608
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/20/80-07/28/89	10	0.815	3.983	19.	0.4	45.176	6.721	0.4	0.55	5.15	18.5
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/20/80-07/28/89	10	0.46	0.644	1.5	0.12	0.237	0.487	0.128	0.275	1.2	1.47
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/04/79-06/06/86	12	0.5	0.517	1.6	0.1	0.145	0.381	0.13	0.3	0.575	1.33
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/19/69-07/28/89	29	0.13	0.567	9.5	0.005	3.061	1.75	0.01	0.055	0.345	1.2
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	113	260.	262.912	524.	140.	5174.135	71.931	180.	199.	310.	353.6
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	107	110.	117.299	278.	16.	2372.815	48.712	66.	80.	149.	177.4
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	121	68.	70.603	168.	36.	364.925	19.103	49.	56.	82.5	94.8
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	121	20.	20.602	45.	5.6	55.988	7.482	12.2	15.	26.	29.8
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	112	74.5	72.818	146.	14.6	815.918	28.564	36.3	48.25	91.5	108.4
00931p	SODIUM ADSORPTION RATIO	03/11/53-02/16/83	102	1.9	1.914	3.6	0.3	0.351	0.593	1.13	1.5	2.3	2.67
00932p	SODIUM, PERCENT	12/01/49-02/16/83	76	37.	36.039	54.	6.	38.812	6.23	27.7	33.25	39.	42.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/11/53-06/06/86	103	3.3	3.23	6.3	0.8	1.082	1.04	2.	2.5	3.7	4.66
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	114	10.	11.079	27.	1.	26.48	5.146	5.	7.	14.	18.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	115	245.	251.035	556.	95.	9351.49	96.703	134.4	166.	315.	377.6
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	107	0.4	0.396	1.3	0.1	0.027	0.164	0.2	0.3	0.5	0.6
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	109	10.	10.434	21.	0.05	10.998	3.316	7.1	8.6	12.	15.
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/01/70-03/14/91	4	1.5	2.625	7.	0.5	8.896	2.983	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/01/70-03/14/91	3	50.	51.333	59.	45.	50.333	7.095	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/01/70-03/14/91	3 ##	0.25	0.167	0.25	0.	0.021	0.144	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	80	90.	99.875	370.	0.	3062.009	55.335	50.	70.	110.	159.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/01/70-03/14/91	4 ##	0.5	0.375	0.5	0.	0.063	0.25	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/01/70-03/14/91	4 ##	2.5	2.	3.	0.	1.833	1.354	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/01/70-03/14/91	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/01/70-03/14/91	4 ##	5.	5.25	9.	2.	8.25	2.872	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/26/47-09/15/71	27	10.	14.444	50.	0.	271.795	16.486	0.	0.	20.	50.
01046	IRON, DISSOLVED (UG/L AS FE)	01/26/71-03/14/91	7	60.	111.143	400.	20.	17662.476	132.9	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	10/01/70-03/14/91	4	4.	5.	10.	2.	12.667	3.559	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/01/70-03/14/91	4	4.	4.5	10.	0.	17.667	4.203	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/01/70-08/30/89	3	5.	6.333	10.	4.	10.333	3.215	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/01/70-08/30/89	3	5.	5.333	10.	1.	20.333	4.509	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	10/01/70-03/14/91	4	0.75	0.875	2.	0.	0.729	0.854	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/01/70-03/14/91	2	570.	570.	650.	490.	12800.	113.137	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/01/70-08/30/89	2 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/01/70-03/14/91	4	20.	16.75	20.	7.	42.25	6.5	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/01/70-03/14/91	1	370.	370.	370.	370.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/01/70-03/14/91	2	21.	21.	23.	19.	8.	2.828	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	10/03/76-07/28/89	14	240.	1653.571	13300.	9.	12935670.418	3596.619	18.5	143.25	1225.	9150.
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	10/03/76-07/28/89	14	2.379	2.524	4.124	0.954	0.685	0.827	1.201	2.155	3.082	3.911

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

Seasonal Analysis for Season #2: 4/15 to 6/19 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			334.168								
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	4	0.	0.	0.	0.	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	09/07/71-09/04/80	4	0.	0.	0.	0.	0.	0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	09/07/71-09/04/80	4	0.	0.	0.	0.	0.	0.	**	**	**	**
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	4	0.	0.	0.	0.	0.	0.	**	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	4	0.	0.	0.	0.	0.	0.	**	**	**	**
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	4	0.	0.	0.	0.	0.	0.	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	4	0.	0.	0.	0.	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	4	0.	0.	0.	0.	0.	0.	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	4	0.	0.	0.	0.	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	4	0.	0.	0.	0.	0.	0.	**	**	**	**
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	4	0.	0.	0.	0.	0.	0.	**	**	**	**
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	4	0.	0.	0.	0.	0.	0.	**	**	**	**
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	4	0.	0.	0.	0.	0.	0.	**	**	**	**
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	4	0.	0.005	0.02	0.	0.	0.01	**	**	**	**
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	4	0.	0.	0.	0.	0.	0.	**	**	**	**
39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	06/20/84-08/31/92	9 ##	0.005	0.007	0.01	0.005	0.	0.003	0.005	0.005	0.01	0.01
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	09/07/71-08/31/92	14	0.045	0.101	0.46	0.005	0.018	0.134	0.005	0.005	0.153	0.36
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	09/07/71-08/31/92	14 ##	0.005	0.004	0.01	0.	0.	0.003	0.	0.	0.005	0.008
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	09/07/71-08/31/92	14 ##	0.005	0.003	0.005	0.	0.	0.002	0.	0.	0.005	0.005
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	95	533.	546.705	1090.	288.	30838.827	175.61	341.4	400.	670.	780.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-02/16/83	38	546.	530.947	770.	276.	19876.808	140.985	322.7	383.5	633.75	732.
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	113	4080.01	5016.644	21750.1	1480.	11954083.716	3457.468	2236.01	2965.	5800.	9470.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	113	0.73	0.745	1.48	0.39	0.054	0.233	0.448	0.54	0.91	1.056
70331p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/01/49-06/06/83	41	77.	79.317	97.	50.	143.022	11.959	63.2	71.	91.5	96.
70332p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	10/01/49-06/06/83	37	90.	88.027	98.	66.	66.416	8.15	75.	84.	94.5	98.
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	10/01/49-09/19/61	36	99.	98.056	100.	92.	3.14	1.772	95.7	97.25	99.	100.
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	10/01/49-09/19/61	31	100.	99.968	100.	99.	0.032	0.18	100.	100.	100.	100.
70337p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	10/01/49-06/12/91	11	26.	31.727	62.	14.	237.418	15.408	14.2	19.	43.	59.
70338p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/01/49-06/12/91	56	35.5	41.179	79.	9.	398.404	19.96	17.	26.	59.75	72.
70339p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	10/01/49-06/12/91	14	43.5	50.143	82.	16.	539.209	23.221	19.5	30.25	75.25	80.5
70340p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/01/49-06/12/91	56	54.	57.196	96.	15.	532.343	23.073	25.	39.25	78.5	90.3
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	10/01/49-06/12/91	9	54.	62.222	90.	30.	440.194	20.981	30.	48.5	86.	90.
70342p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/01/59-06/12/91	31	85.	82.581	97.	43.	186.185	13.645	63.	75.	95.	96.
70343p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/01/59-06/12/91	31	94.	91.742	100.	75.	45.198	6.723	79.6	87.	97.	98.
70344p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	10/01/59-06/12/91	31	99.	98.548	100.	92.	3.989	1.997	94.6	98.	100.	100.
70345p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	10/01/59-06/12/91	20	100.	99.85	100.	99.	0.134	0.366	99.	100.	100.	100.
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	12/01/49-09/22/61	21	0.9	1.371	5.1	0.	1.658	1.288	0.02	0.25	2.3	2.86
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	94	1.15	1.356	5.1	0.	0.972	0.986	0.2	0.675	2.	2.7
71885	IRON (UG/L AS FE)	12/18/60-05/04/67	29	10.	11.379	70.	0.	212.315	14.571	0.	5.	10.	20.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/49-09/18/92	80	2150.	4403.688	28900.	69.	36170998.218	6014.233	311.6	872.75	5662.5	10884.
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/59-02/26/86	33	16200.	89603.303	867000.	133.37	096498924.218	192604.514	609.4	2170.	72400.	320600.
80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	09/29/70-03/08/77	4	1.	1.075	2.	0.3	0.489	0.699	**	**	**	**
80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	09/29/70-03/08/77	4	1.	1.75	4.	1.	2.25	1.5	**	**	**	**
80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	09/29/70-03/08/77	4	14.5	18.5	37.	8.	165.667	12.871	**	**	**	**
80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	09/29/70-03/08/77	4	78.5	67.25	91.	21.	998.917	31.606	**	**	**	**
80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	09/29/70-03/08/77	4	87.5	76.	100.	29.	1018.	31.906	**	**	**	**
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	09/29/70-03/08/77	3	86.	69.333	90.	32.	1049.333	32.393	**	**	**	**
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	09/29/70-03/08/77	3	87.	71.	90.	36.	921.	30.348	**	**	**	**
80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	09/29/70-03/08/77	3	88.	75.	92.	45.	679.	26.058	**	**	**	**
82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	06/20/84-08/31/92	9	0.01	0.028	0.1	0.005	0.001	0.031	0.005	0.005	0.04	0.1
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	10/24/79-08/31/92	10 ##	0.005	0.005	0.005	0.	0.	0.002	0.001	0.005	0.005	0.005

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

Seasonal Analysis for Season #3: 6/20 to 8/09 - Station BICA0002

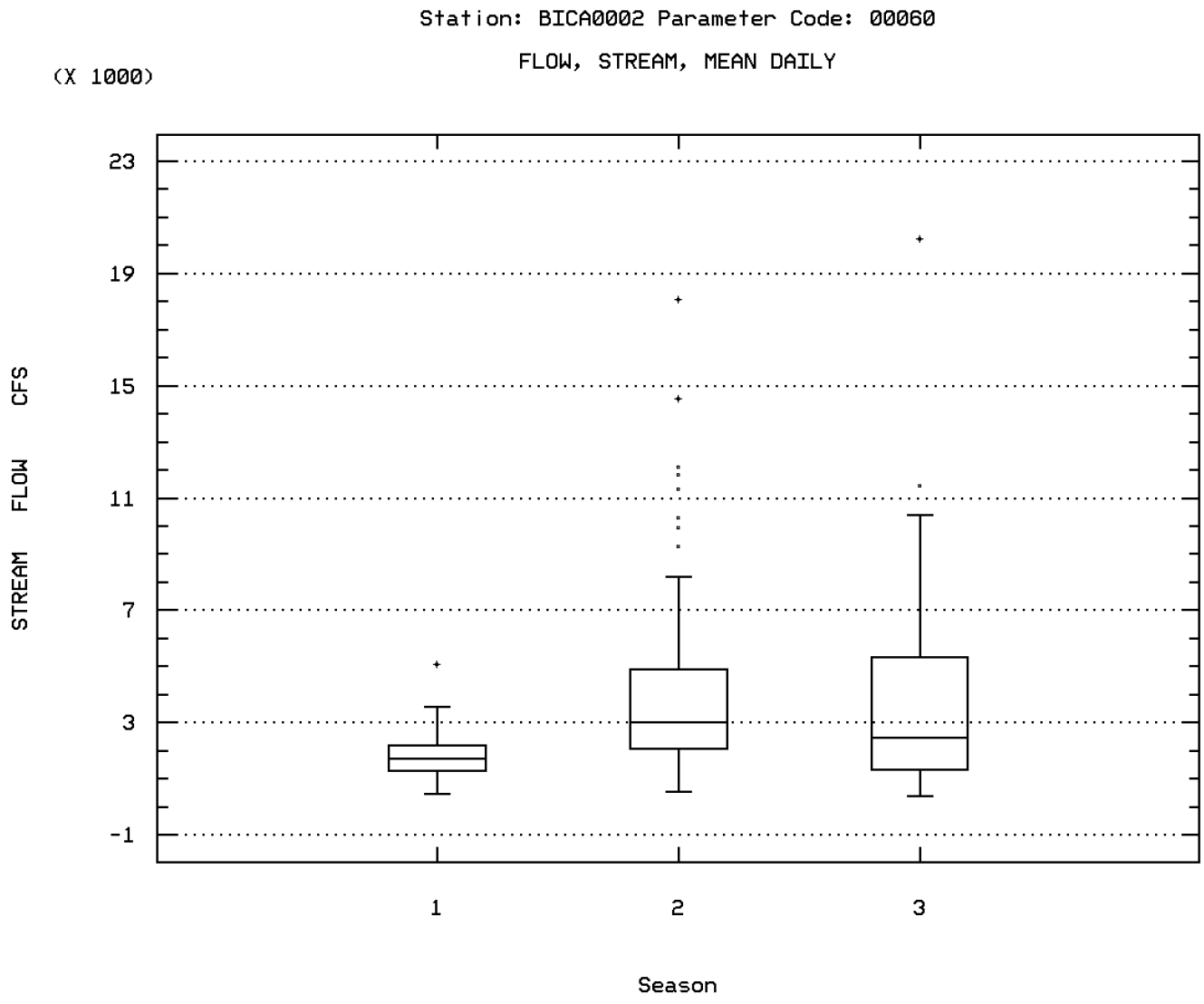
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/47-04/14/97	66	20.5	20.356	26.5	13.	10.152	3.186	16.	18.75	22.35	25.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/02/75-04/14/97	24	27.5	28.183	42.	15.5	32.068	5.663	21.	24.625	32.75	34.45
00025	BAROMETRIC PRESSURE (MM OF HG)	02/16/84-04/14/97	5	662.	665.6	678.	660.	58.8	7.668	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	03/26/47-04/18/79	81	2450.	3751.37	20200.	370.	12047925.611	3471.012	798.8	1300.	5640.	9019.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/49-04/14/97	63	3330.	4447.048	10600.	612.	10782182.465	3283.623	739.4	1720.	7180.	9564.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/10/73-07/29/80	11	90.	299.091	1900.	1.	333133.291	577.177	1.6	30.	180.	1680.
00080	COLOR (PLATINUM-COBALT UNITS)	11/01/56-11/19/69	22	6.	6.182	12.	3.	5.108	2.26	3.3	4.75	7.25	10.1
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/47-04/14/97	108	814.5	883.759	3030.	355.	124891.885	353.4	528.3	647.75	1097.5	1272.
00300p	OXYGEN, DISSOLVED MG/L	08/29/69-04/14/97	18	7.8	7.922	10.2	6.6	0.721	0.849	6.69	7.4	8.4	8.85
00400p	PH (STANDARD UNITS)	03/26/47-04/14/97	86	7.8	7.843	8.5	7.	0.13	0.36	7.4	7.6	8.2	8.3
00400p	CONVERTED PH (STANDARD UNITS)	03/26/47-04/14/97	86	7.8	7.7	8.5	7.	0.15	0.388	7.4	7.6	8.2	8.3
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/47-04/14/97	86	0.016	0.02	0.1	0.003	0.	0.017	0.005	0.006	0.025	0.04
00403	PH, LAB, STANDARD UNITS SU	10/17/80-03/14/91	9	7.8	7.933	8.7	7.6	0.105	0.324	7.6	7.75	8.05	8.7
00403	CONVERTED PH, LAB, STANDARD UNITS	10/17/80-03/14/91	9	7.8	7.857	8.7	7.6	0.112	0.334	7.6	7.75	8.05	8.7
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/17/80-03/14/91	9	0.016	0.014	0.025	0.002	0.	0.007	0.002	0.009	0.018	0.025
00405	CARBON DIOXIDE (MG/L AS CO2)	11/30/71-10/07/81	13	1.9	2.585	10.	0.9	5.631	2.373	1.06	1.4	2.75	7.52
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/47-09/04/80	55	140.	145.055	227.	83.	967.645	31.107	102.2	125.	164.	190.
00440p	BICARBONATE ION (MG/L AS HCO3)	03/26/47-12/17/81	79	180.	178.342	276.	101.	1334.689	36.533	136.	153.	201.	230.
00445p	CARBONATE ION (MG/L AS CO3)	10/03/50-12/17/81	63	0.	0.413	18.	0.	5.569	2.36	0.	0.	0.	0.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/20/80-07/28/89	10	0.06	0.245	1.8	0.005	0.302	0.55	0.006	0.033	0.16	1.639
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/30/71-08/23/79	13	0.47	0.468	0.99	0.11	0.072	0.268	0.122	0.225	0.665	0.902
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/20/80-07/28/89	10	1.45	2.268	5.9	0.9	3.104	1.762	0.908	0.995	3.7	5.77
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/20/80-07/28/89	10	0.525	0.611	1.1	0.14	0.106	0.325	0.156	0.375	0.925	1.09
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/04/79-06/06/86	10	0.4	0.48	1.2	0.1	0.122	0.349	0.11	0.275	0.625	1.18
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/19/69-07/28/89	25	0.08	0.35	6.	0.01	1.395	1.181	0.01	0.03	0.185	0.332
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	03/26/47-02/16/83	84	260.	290.417	1450.	119.	24888.511	157.761	171.5	208.5	348.5	408.5
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/26/47-12/17/81	79	120.	145.722	1280.	30.	20997.434	144.905	59.	81.	170.	229.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/47-03/14/91	88	69.	79.136	482.	35.	2690.142	51.867	46.	54.5	90.5	106.5
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/47-03/14/91	88	21.	23.191	60.	4.1	92.84	9.635	13.	16.	28.75	36.1
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/07/51-03/14/91	85	80.	89.071	281.	30.	1895.352	43.536	44.	59.	110.	150.6
00931p	SODIUM ADSORPTION RATIO	03/11/53-02/16/83	76	2.	2.163	3.5	1.1	0.425	0.652	1.4	1.7	2.575	3.23
00932p	SODIUM, PERCENT	12/01/49-02/16/83	56	38.	38.071	48.	30.	13.74	3.707	33.7	36.	40.	43.3
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/11/53-06/06/86	75	3.7	4.	13.	0.3	3.439	1.855	2.3	2.8	4.7	6.34
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/26/47-06/06/86	85	10.	12.6	38.	4.	46.243	6.8	6.	8.	17.	22.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/26/47-06/06/86	85	250.	298.094	1770.	85.	44104.824	210.011	136.	180.	364.	493.6
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/47-06/06/86	78	0.4	0.432	0.9	0.2	0.025	0.157	0.2	0.3	0.5	0.61
00955p	SILICA, DISSOLVED (MG/L AS SI02)	03/26/47-03/14/91	78	10.	10.874	24.	6.8	8.581	2.929	7.99	9.175	12.	14.
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/01/70-03/14/91	2	2.5	2.5	3.	2.	0.5	0.707	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/01/70-03/14/91	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/01/70-03/14/91	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	06/01/48-03/14/91	63	100.	113.651	320.	20.	3304.199	57.482	50.	80.	150.	192.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/01/70-03/14/91	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/01/70-03/14/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/01/70-03/14/91	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/26/47-09/15/71	18	15.	36.111	190.	0.	2589.869	50.891	0.	0.	50.	118.
01046	IRON, DISSOLVED (UG/L AS FE)	01/26/71-03/14/91	7	70.	75.714	220.	0.	5095.238	71.381	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	10/01/70-03/14/91	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/01/70-03/14/91	2 ##	2.5	2.5	5.	0.	12.5	3.536	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/01/70-08/30/89	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	10/01/70-03/14/91	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/01/70-03/14/91	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/01/70-03/14/91	1	20.	20.	20.	20.	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	10/03/76-07/28/89	12	270.	440.25	2100.	93.	295864.386	543.934	95.1	177.5	482.5	1638.
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	10/03/76-07/28/89	12	2.427	2.472	3.322	1.968	0.134	0.367	1.978	2.248	2.683	3.15
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			296.627								
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	09/07/71-09/04/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	09/07/71-09/04/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**

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

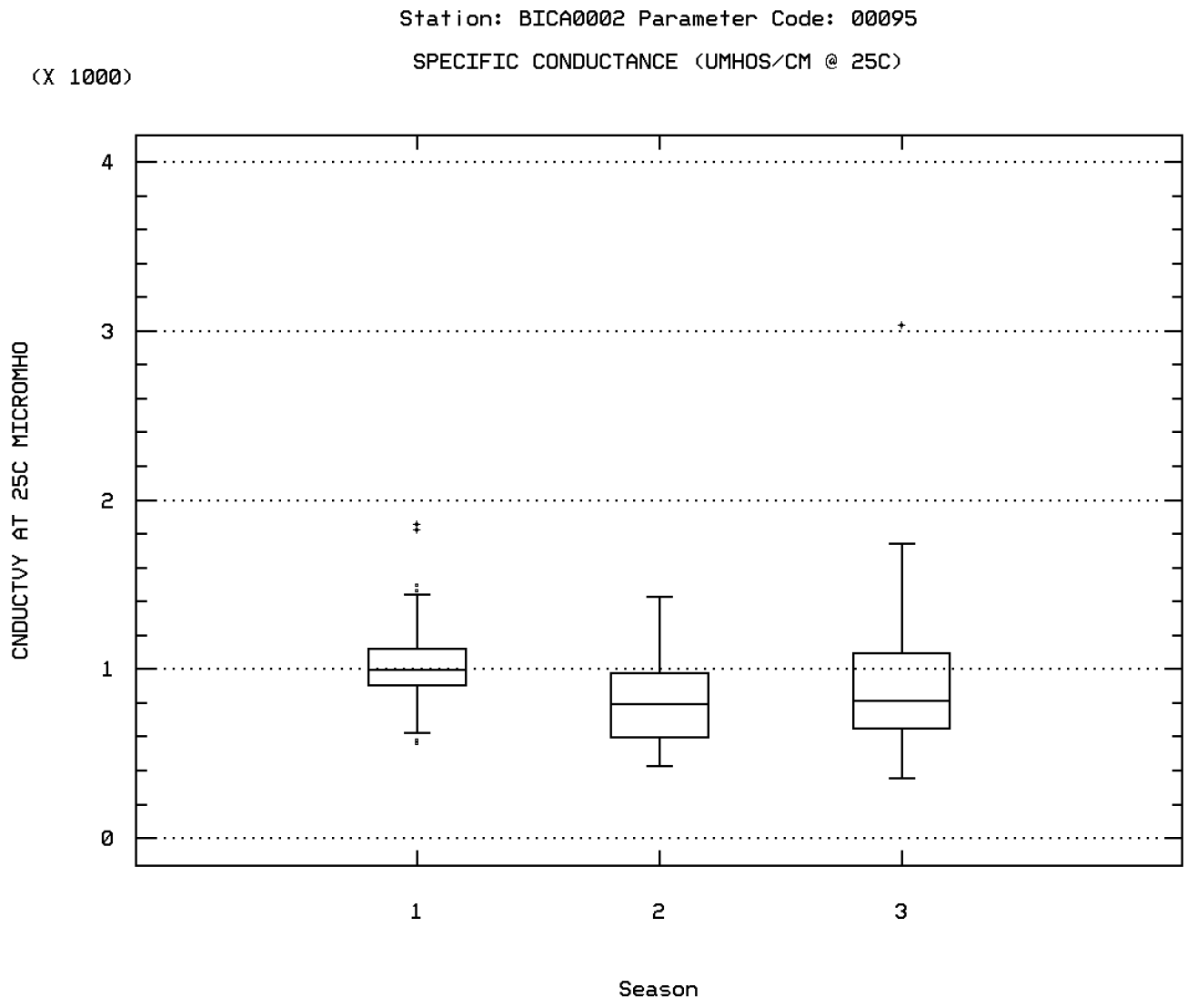
Seasonal Analysis for Season #3: 6/20 to 8/09 - Station BICA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	2	0.005	0.005	0.01	0.	0.	0.007	**	**	**	**
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	2	0.01	0.01	0.02	0.	0.	0.014	**	**	**	**
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	09/07/71-09/04/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	06/20/84-08/31/92	11	0.01	0.012	0.03	0.005	0.	0.008	0.005	0.005	0.02	0.028
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	09/07/71-08/31/92	13	0.06	0.065	0.1	0.	0.001	0.031	0.016	0.045	0.1	0.1
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	09/07/71-08/31/92	13 ##	0.005	0.004	0.005	0.	0.	0.002	0.	0.005	0.005	0.005
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	09/07/71-08/31/92	13 ##	0.005	0.004	0.005	0.	0.	0.002	0.	0.005	0.005	0.005
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/47-10/10/73	72	592.	696.486	3380.	234.	233475.662	483.193	357.9	435.	810.	1004.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-02/16/83	35	518.	578.2	992.	250.	39311.106	198.27	350.8	434.	712.	905.
70302p	SOLIDS, DISSOLVED-TONS PER DAY	03/26/47-02/16/83	87	3440.	4793.453	29800.	1110.01	17918905.621	4233.073	1738.	2220.	6060.	9208.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/26/47-02/16/83	87	0.78	0.914	4.6	0.32	0.376	0.613	0.488	0.59	1.08	1.35
70331p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/01/49-06/06/83	23	72.	73.783	91.	50.	129.723	11.39	60.	64.	80.	90.6
70332p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	10/01/49-06/06/83	15	85.	86.067	97.	78.	33.495	5.788	78.6	81.	90.	95.2
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	10/01/49-09/19/61	15	98.	97.667	99.	95.	1.952	1.397	95.6	96.	99.	99.
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	10/01/49-09/19/61	15	100.	99.933	100.	99.	0.067	0.258	99.6	100.	100.	100.
70337p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	10/01/49-06/12/91	6	31.	30.667	44.	16.	108.267	10.405	**	**	**	**
70338p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/01/49-06/12/91	30	31.	37.1	72.	14.	298.231	17.269	18.	23.75	52.75	66.5
70339p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	10/01/49-06/12/91	6	55.5	54.833	73.	36.	222.167	14.905	**	**	**	**
70340p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/01/49-06/12/91	30	42.5	51.867	95.	25.	449.154	21.193	28.1	36.	71.5	85.9
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	10/01/49-06/12/91	6	65.5	64.333	84.	44.	199.467	14.123	**	**	**	**
70342p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/01/59-06/12/91	11	70.	71.909	97.	55.	196.891	14.032	55.6	61.	80.	96.8
70343p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/01/59-06/12/91	11	86.	88.091	99.	78.	43.091	6.564	78.6	83.	92.	98.8
70344p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	10/01/59-06/12/91	11	98.	98.364	100.	96.	2.855	1.69	96.	97.	100.	100.
70345p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	10/01/59-06/12/91	6	100.	99.667	100.	98.	0.667	0.816	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	12/01/49-09/22/61	10	0.55	0.86	2.1	0.2	0.523	0.723	0.21	0.3	1.675	2.08
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/26/47-08/23/79	69	1.2	3.428	150.	0.2	321.344	17.926	0.4	0.55	1.7	2.7
71885	IRON (UG/L AS FE)	12/18/60-05/04/67	22	0.	3.636	20.	0.	33.766	5.811	0.	0.	10.	10.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/49-09/18/92	57	1900.	2695.526	14200.	85.	9734012.539	3119.938	156.6	329.5	4135.	6292.
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/59-02/26/86	22	4105.	16005.682	83700.	165.	511763810.323	22622.197	347.3	1382.5	30325.	49720.
80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	09/29/70-03/08/77	4	0.75	0.725	1.	0.4	0.103	0.32	**	**	**	**
80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	09/29/70-03/08/77	4	1.	1.25	2.	1.	0.25	0.5	**	**	**	**
80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	09/29/70-03/08/77	4	22.5	19.25	26.	6.	80.917	8.995	**	**	**	**
80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	09/29/70-03/08/77	4	44.5	51.	88.	27.	750.	27.386	**	**	**	**
80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	09/29/70-03/08/77	4	48.	56.5	98.	32.	903.	30.05	**	**	**	**
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	09/29/70-03/08/77	4	49.	57.25	98.	33.	875.583	29.59	**	**	**	**
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	09/29/70-03/08/77	4	49.5	58.	98.	35.	846.	29.086	**	**	**	**
80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	09/29/70-03/08/77	4	54.	62.	99.	41.	700.	26.458	**	**	**	**
82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	06/20/84-08/31/92	11	0.03	0.037	0.07	0.01	0.001	0.024	0.01	0.01	0.06	0.07
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	10/24/79-08/31/92	11 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005

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



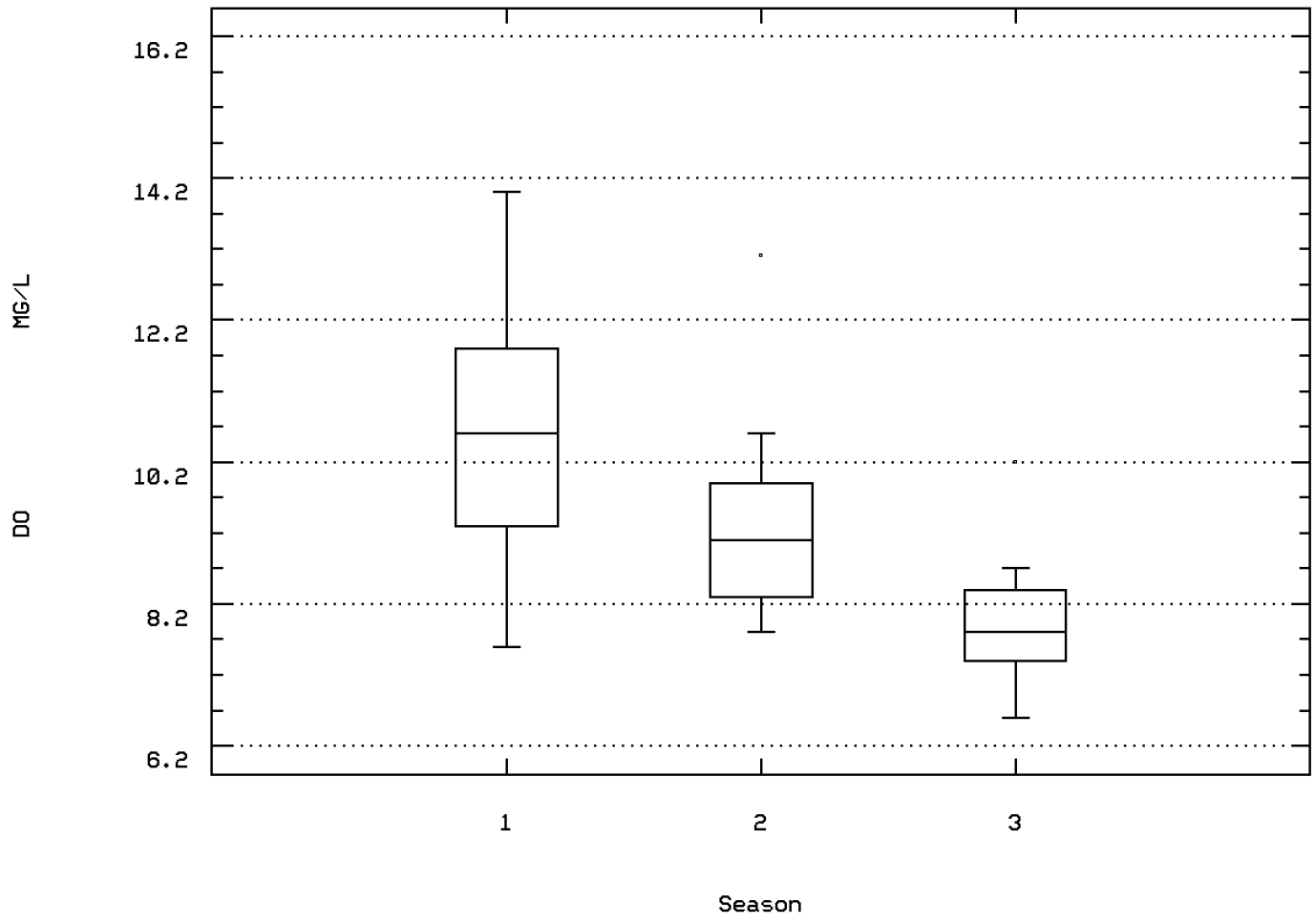
BIGHORN R AT KANE WYO



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00300

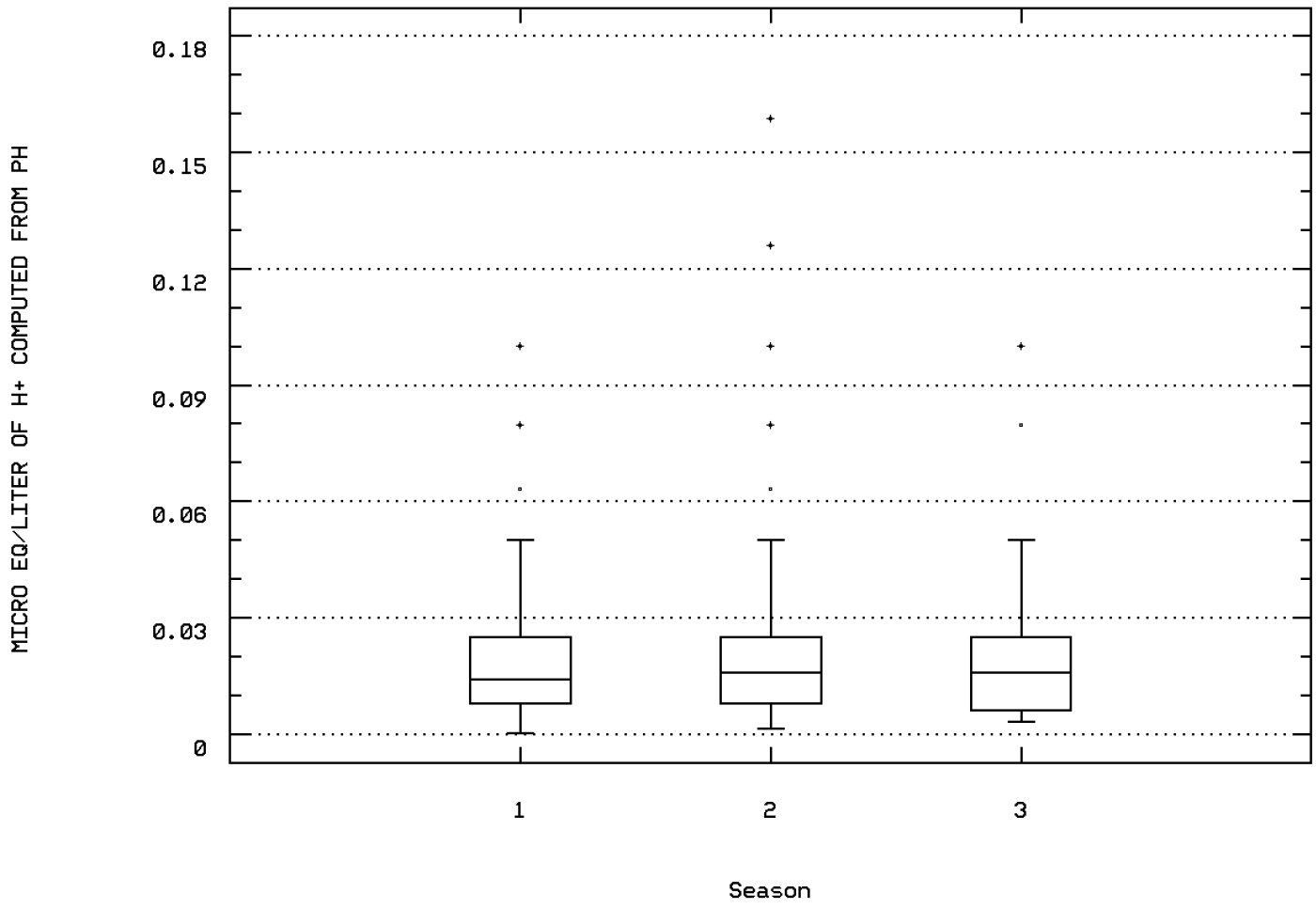
OXYGEN, DISSOLVED



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00400

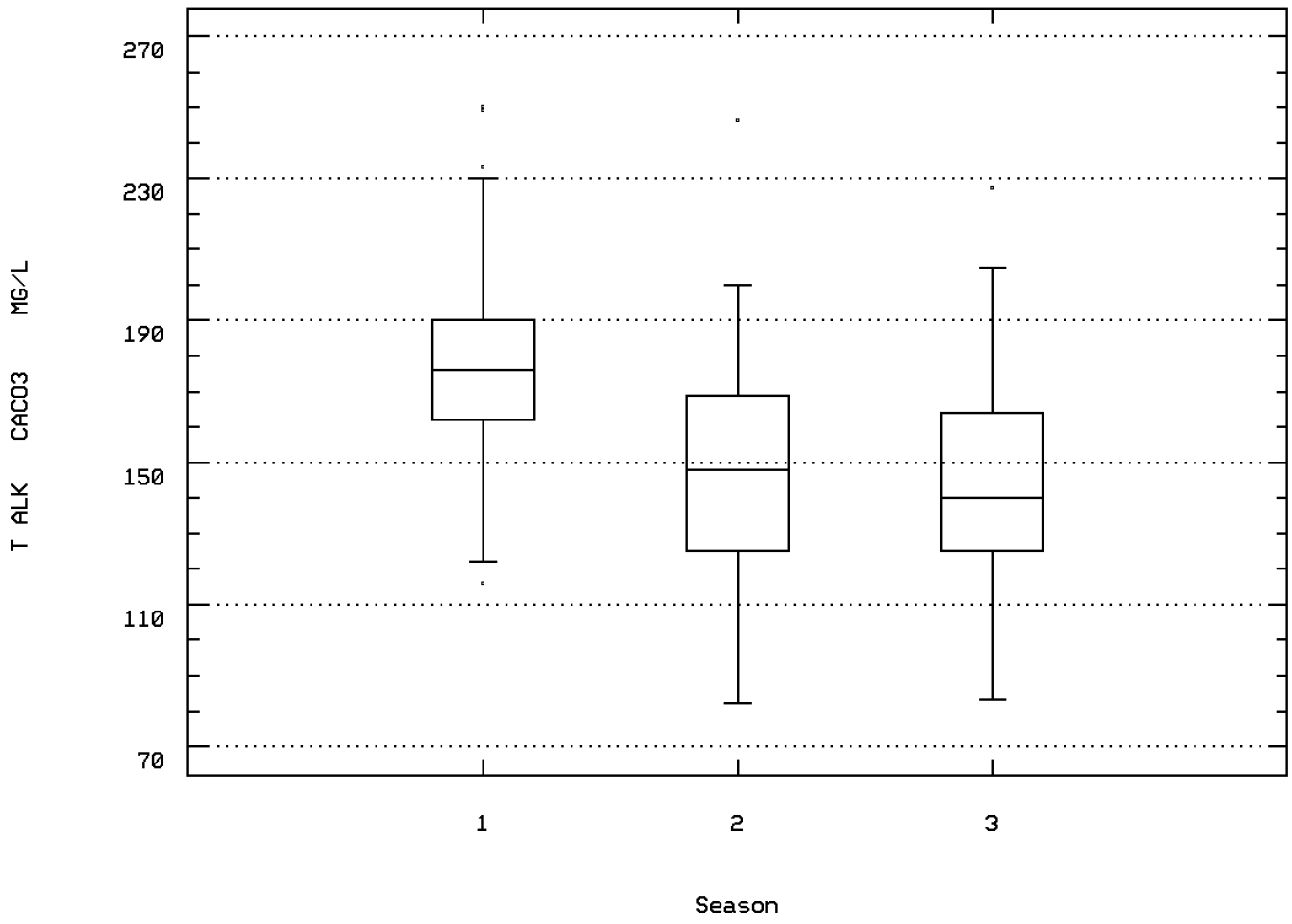
MICRO EQ/LITER OF H+ COMPUTED FROM PH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00410

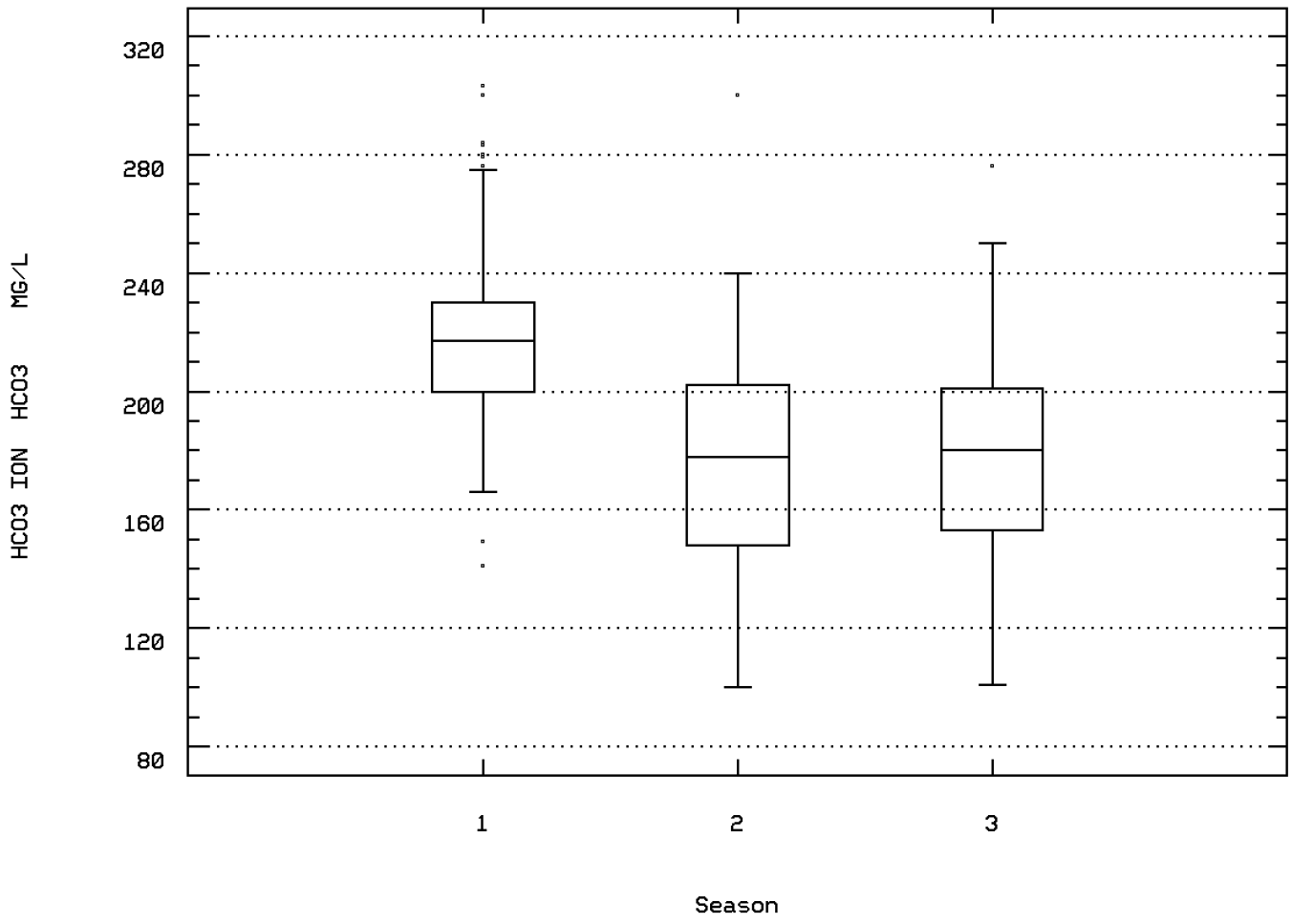
ALKALINITY, TOTAL (MG/L AS CACO3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00440

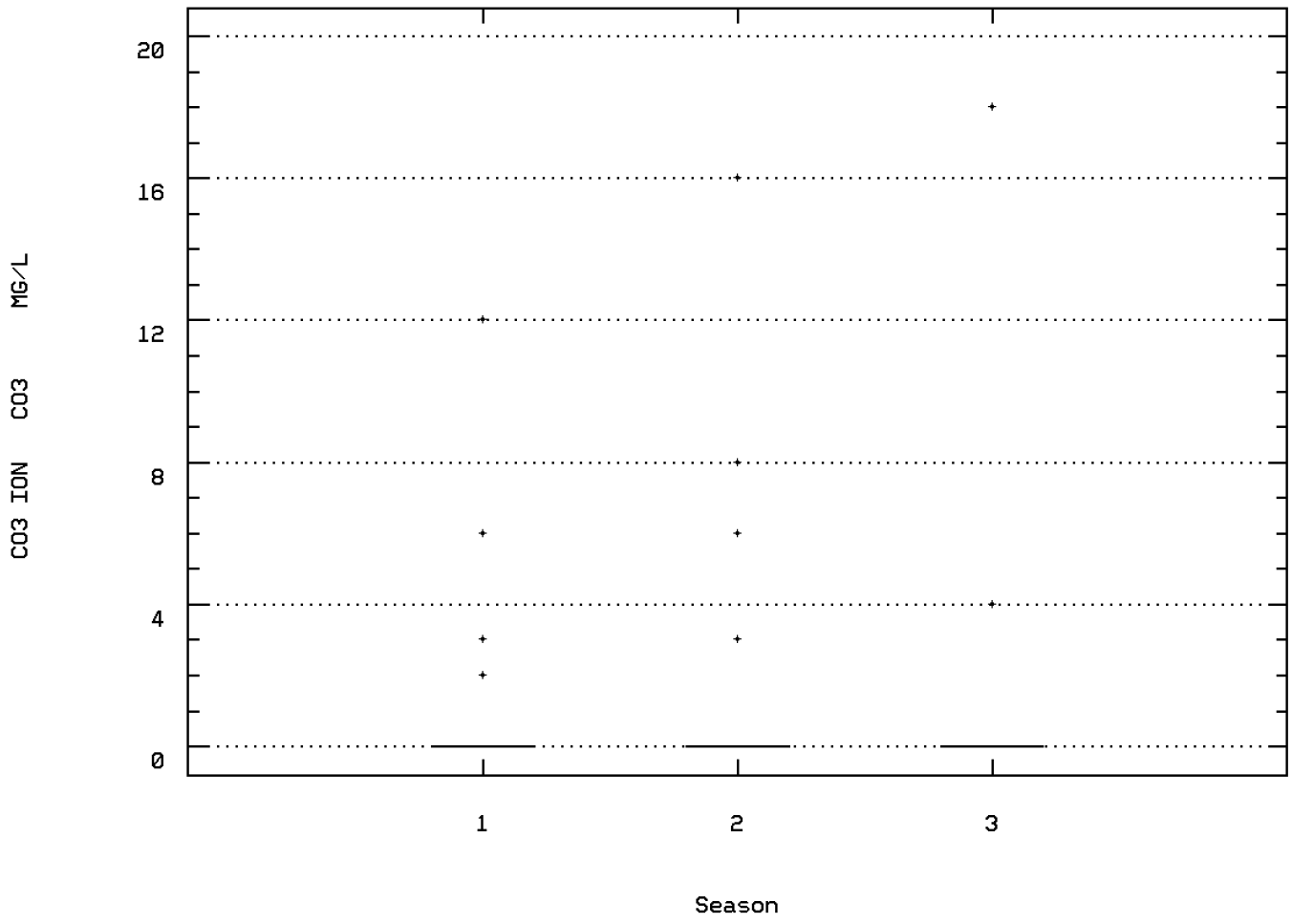
BICARBONATE ION (MG/L AS HCO3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00445

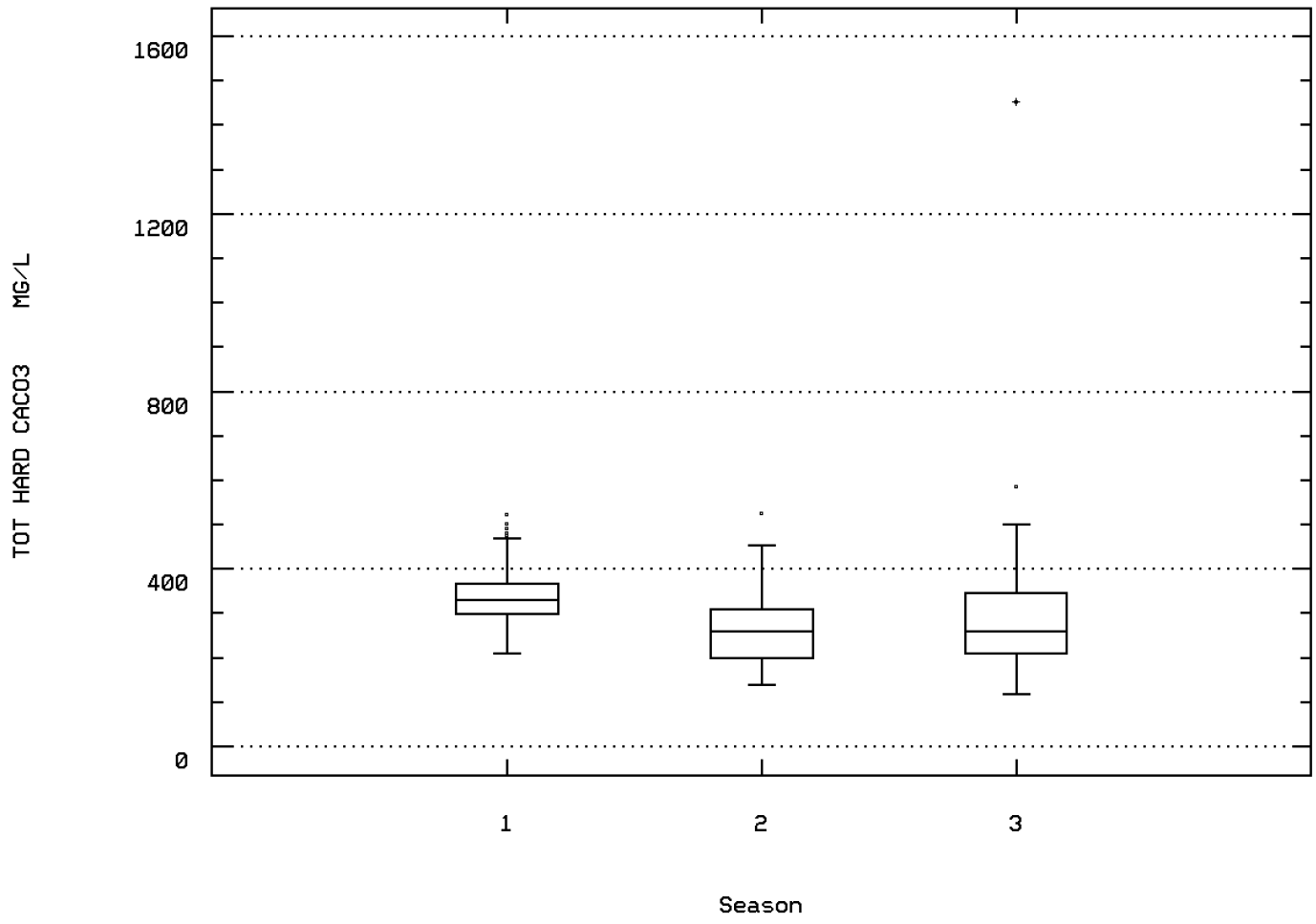
CARBONATE ION (MG/L AS CO3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00900

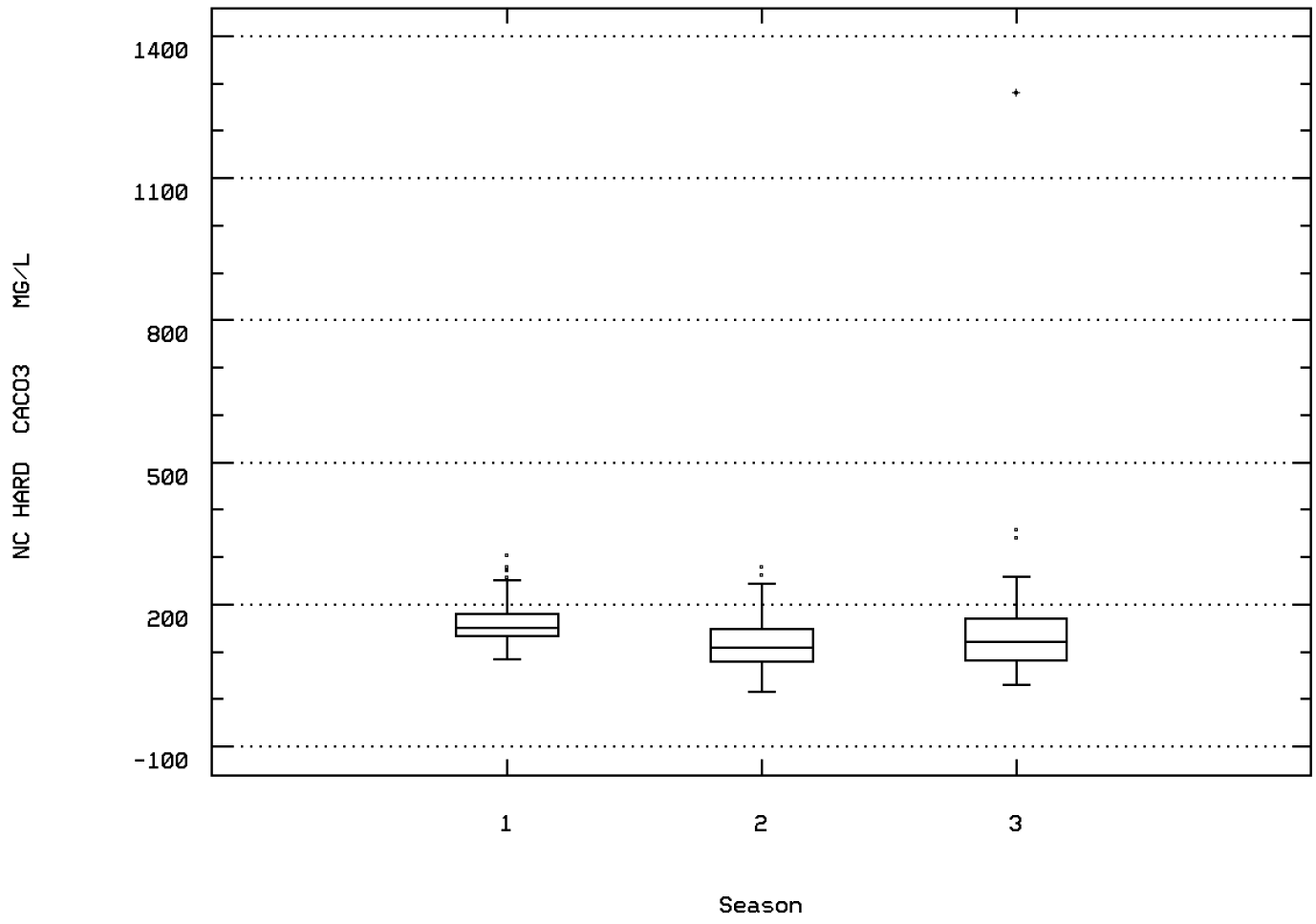
HARDNESS, TOTAL (MG/L AS CACO3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00902

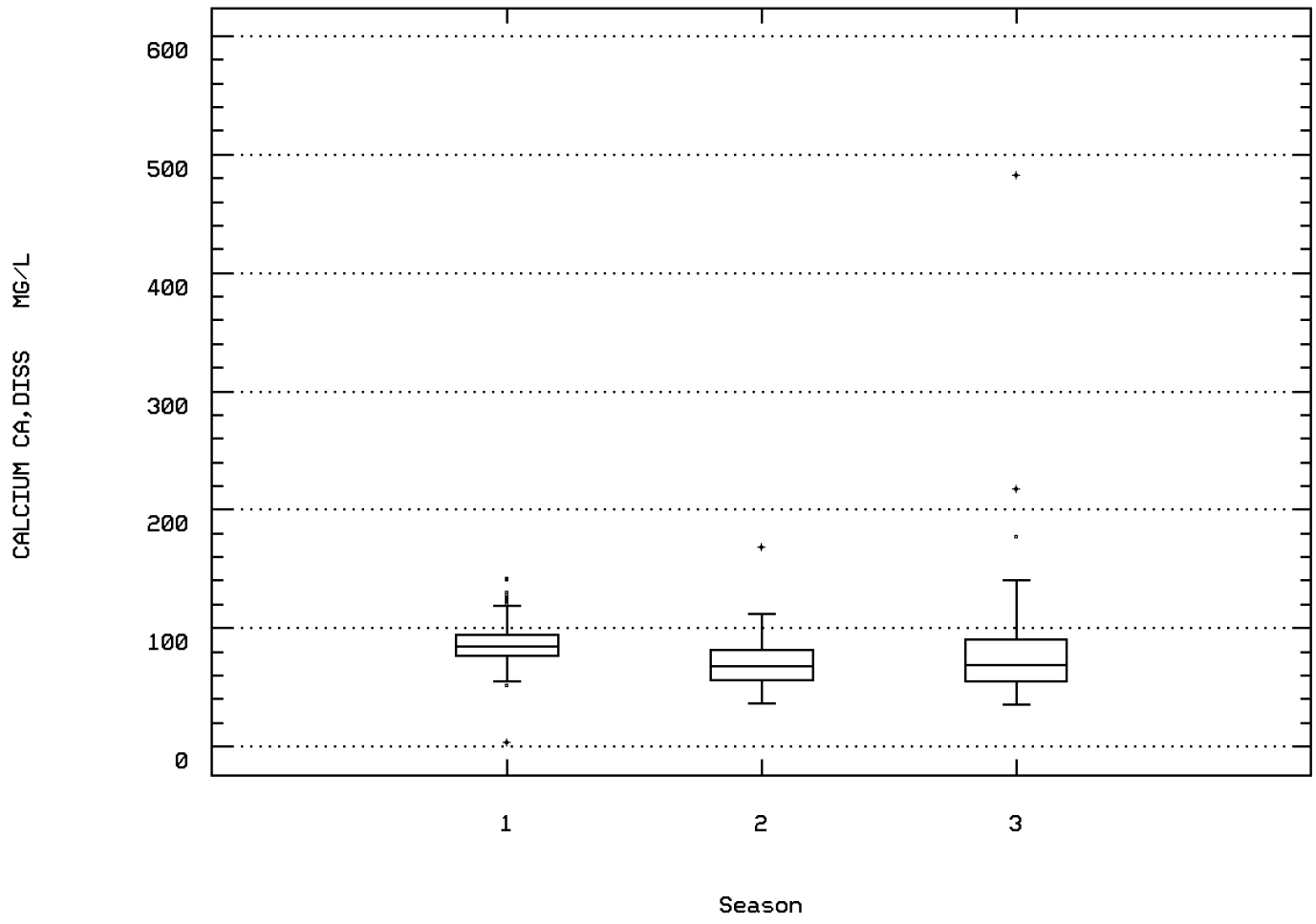
HARDNESS, NON-CARBONATE (MG/L AS CACO3)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00915

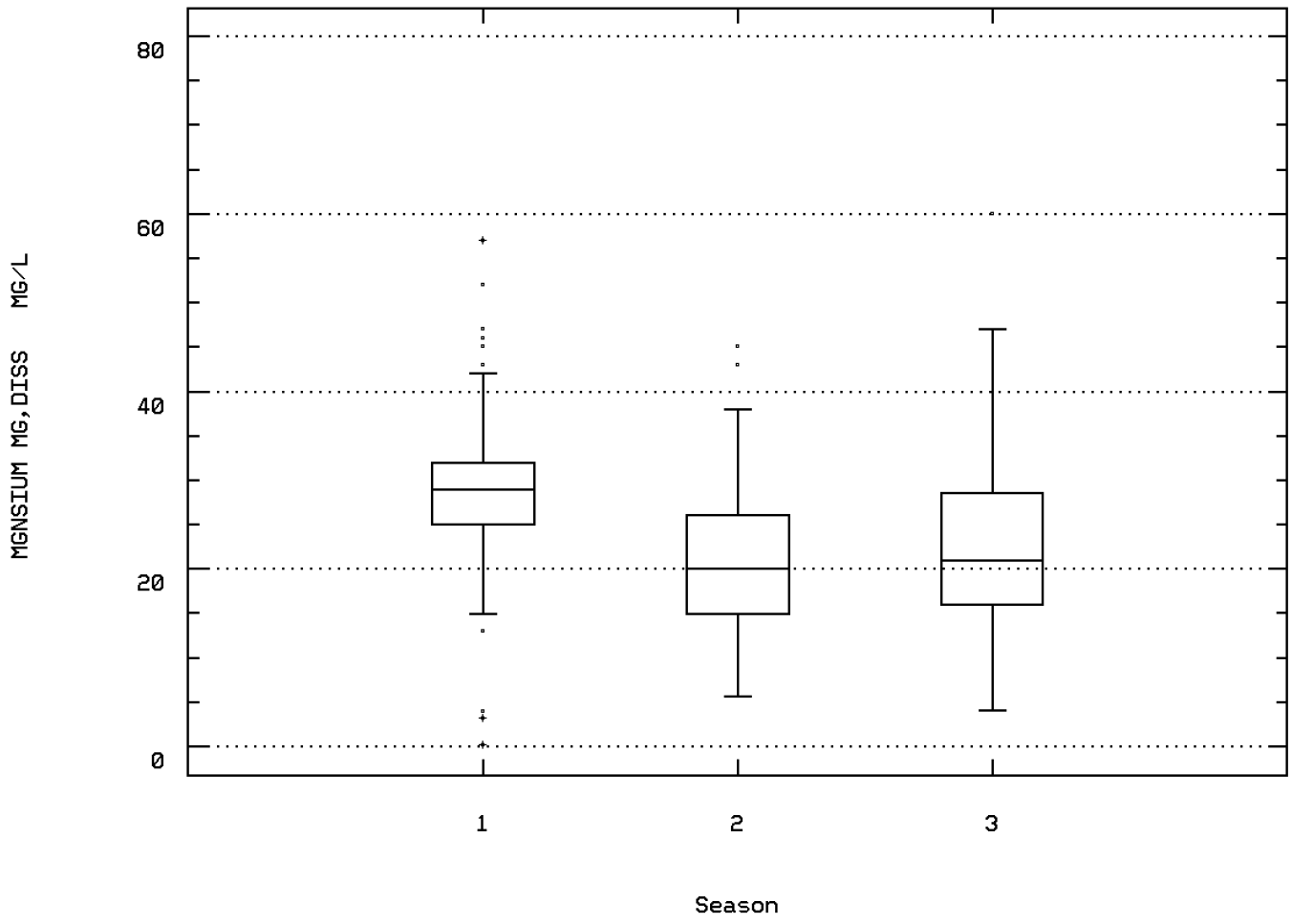
CALCIUM, DISSOLVED (MG/L AS CA)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00925

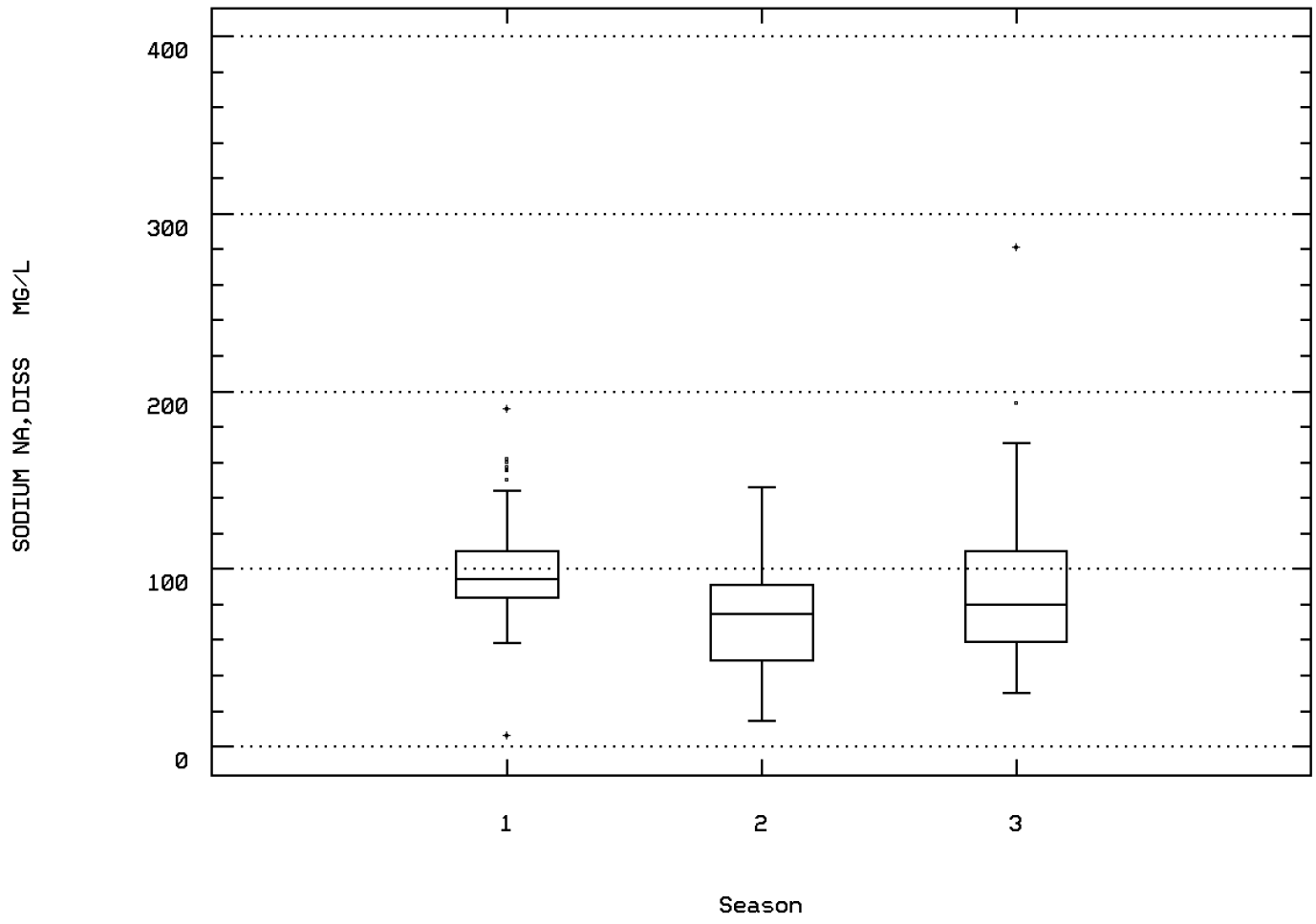
MAGNESIUM, DISSOLVED (MG/L AS MG)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00930

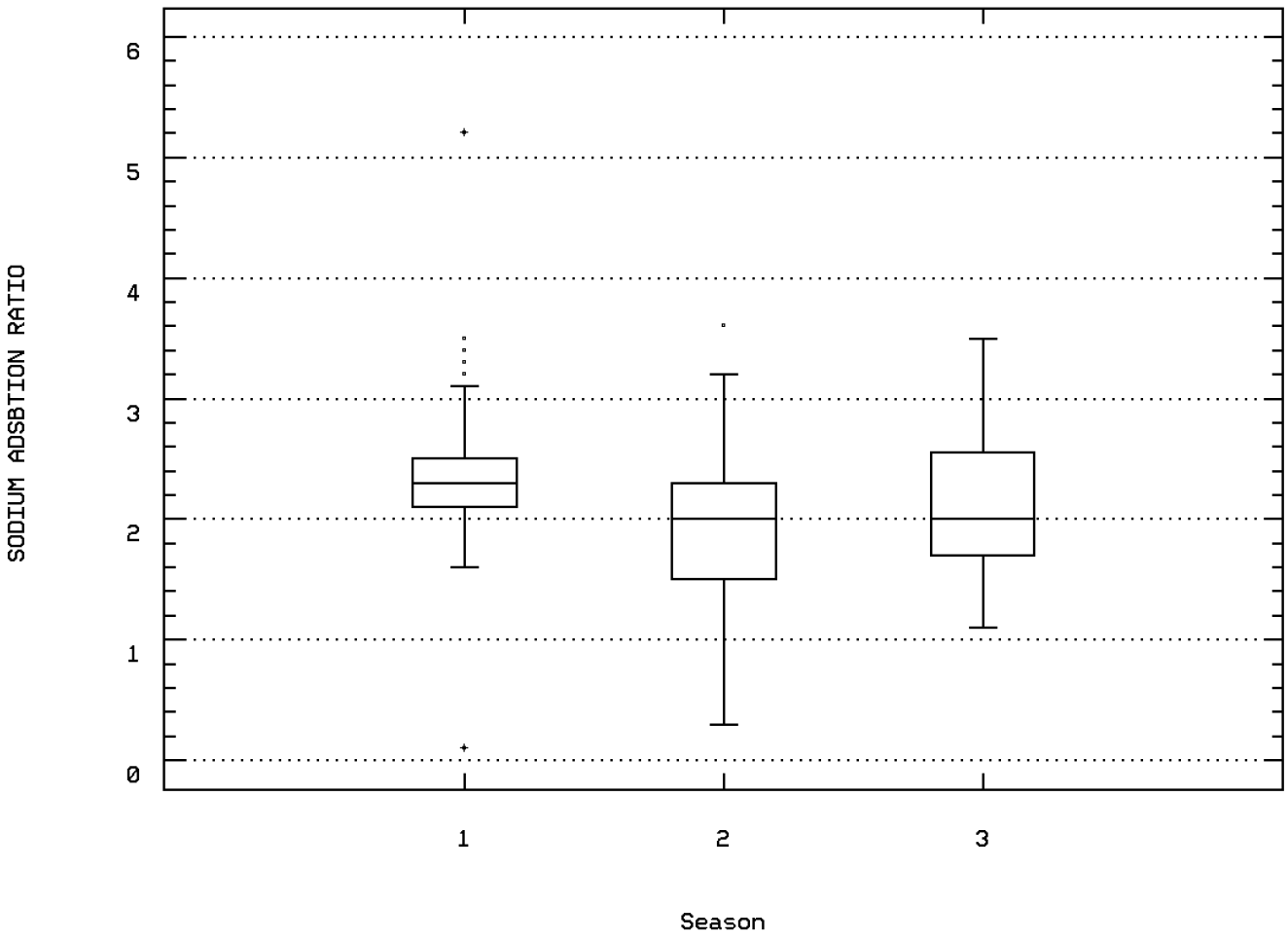
SODIUM, DISSOLVED (MG/L AS NA)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00931

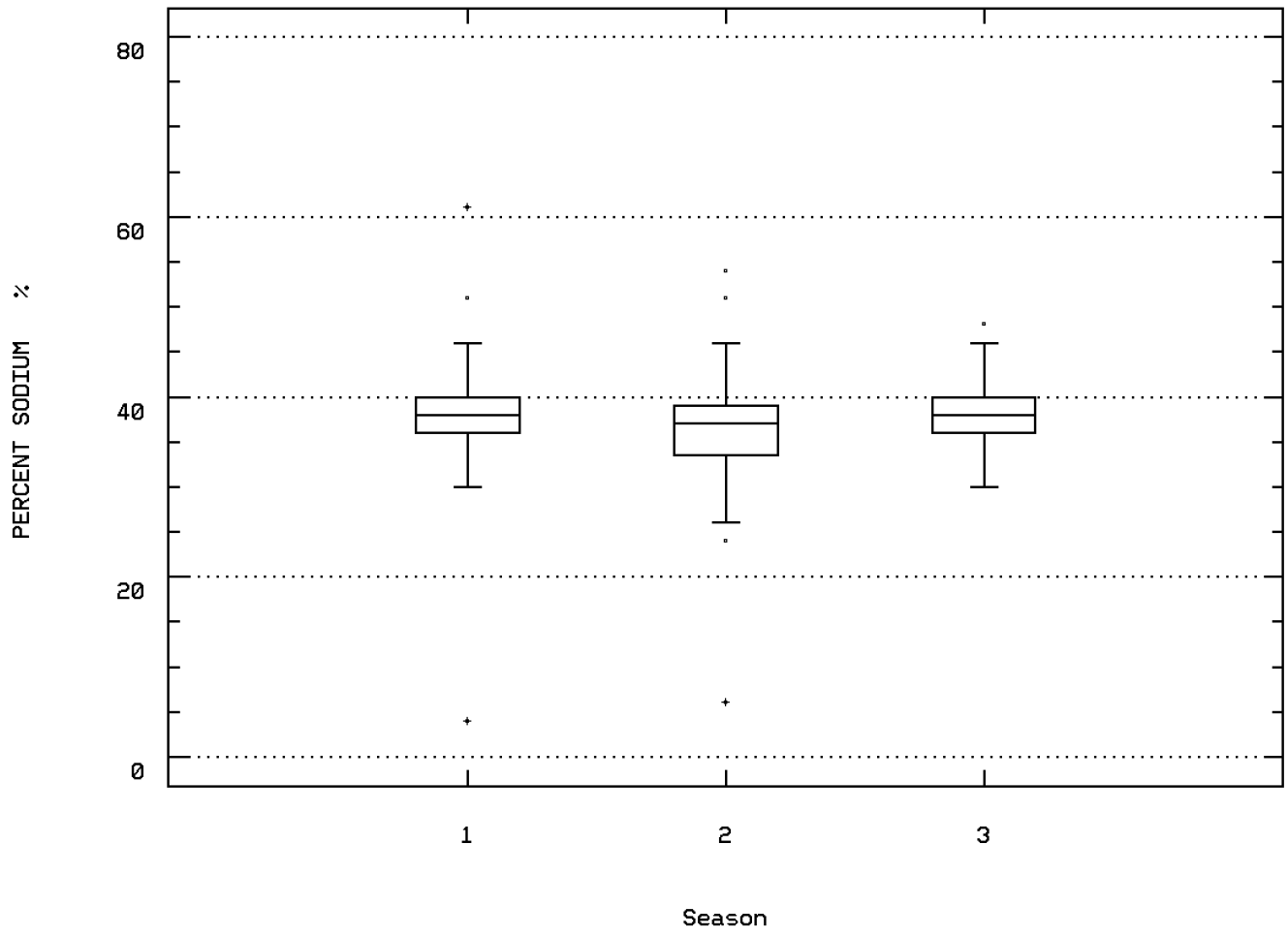
SODIUM ADSORPTION RATIO



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00932

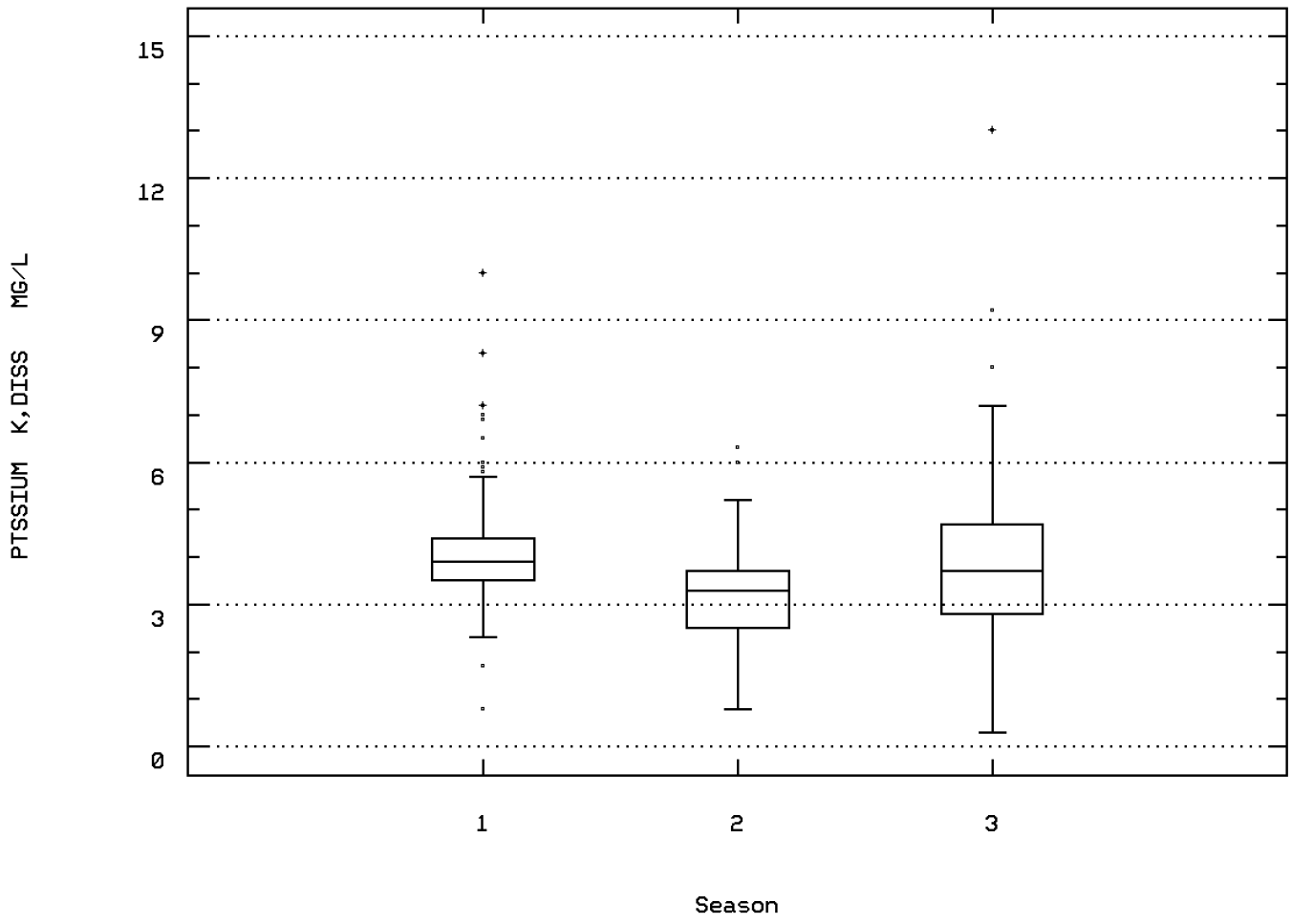
SODIUM, PERCENT



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00935

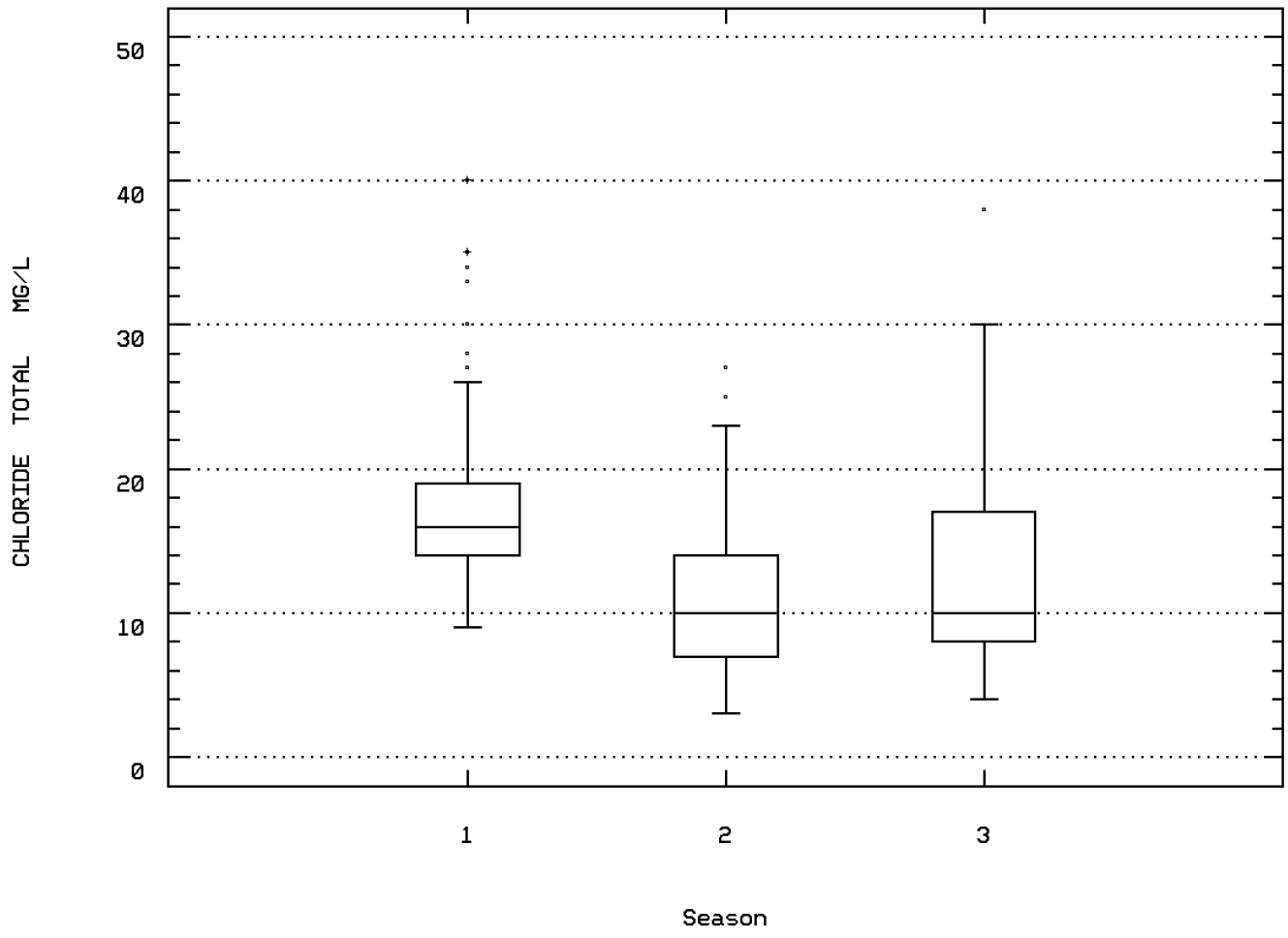
POTASSIUM, DISSOLVED (MG/L AS K)



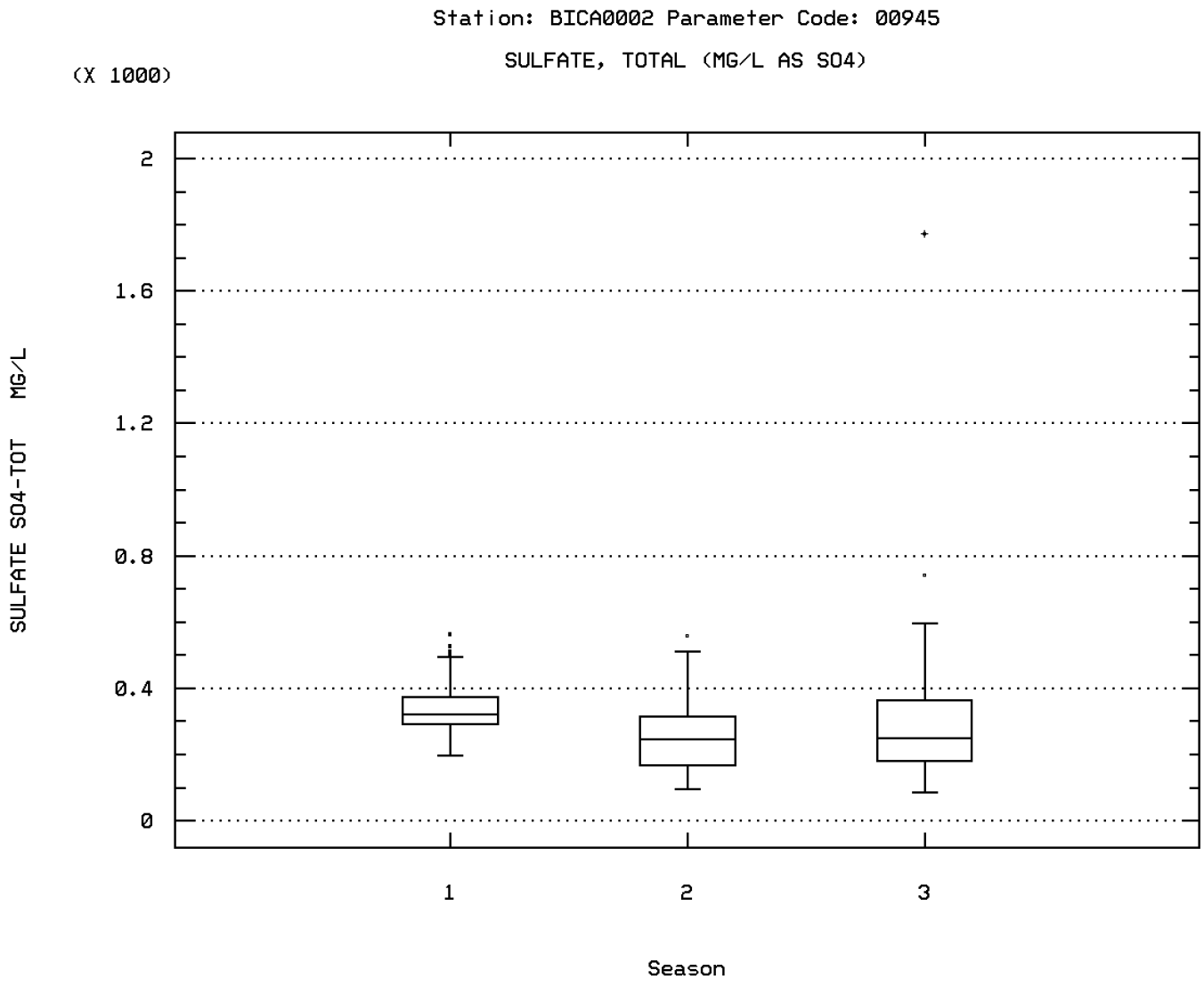
BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00940

CHLORIDE,TOTAL IN WATER



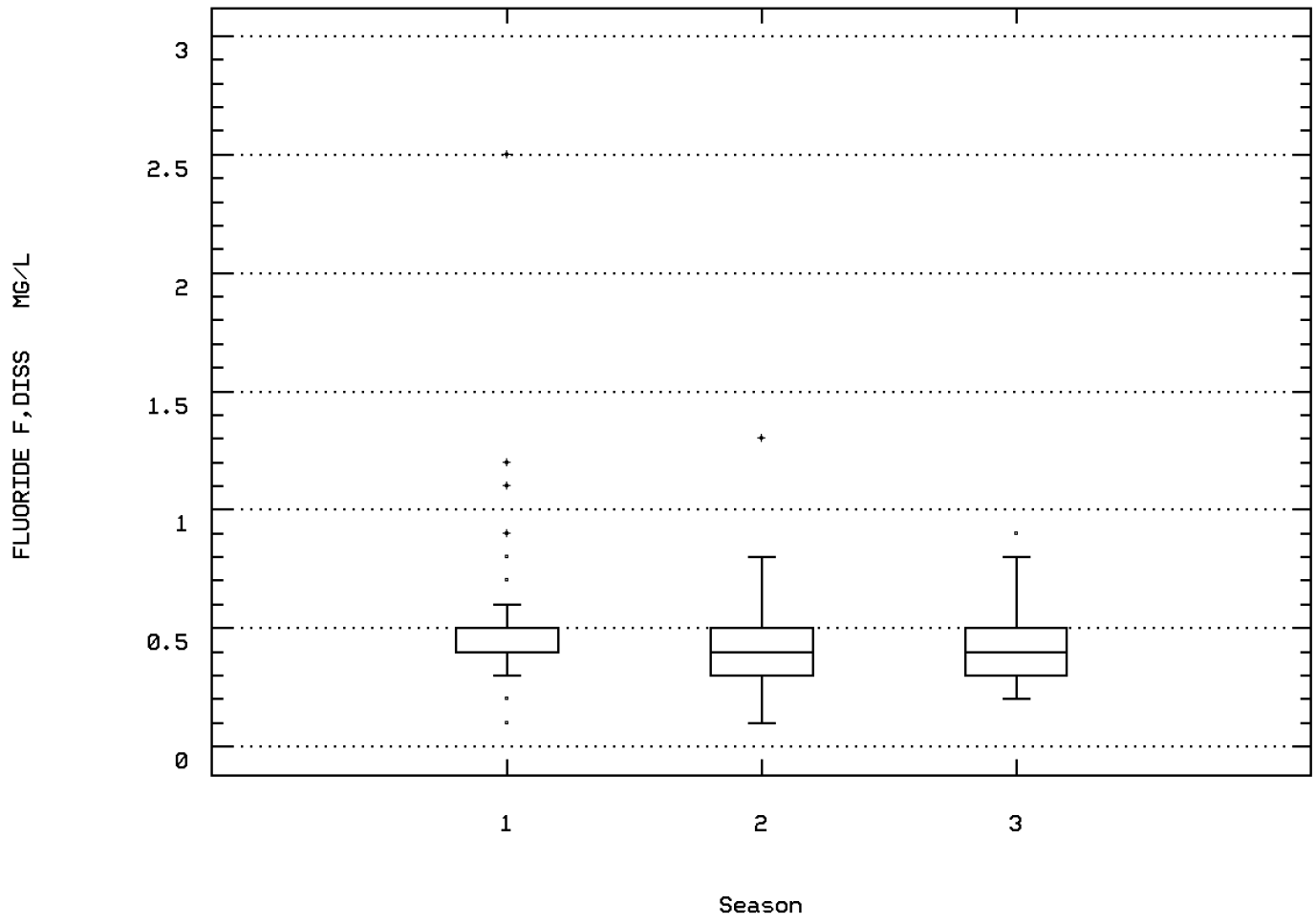
BIGHORN R AT KANE WYO



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00950

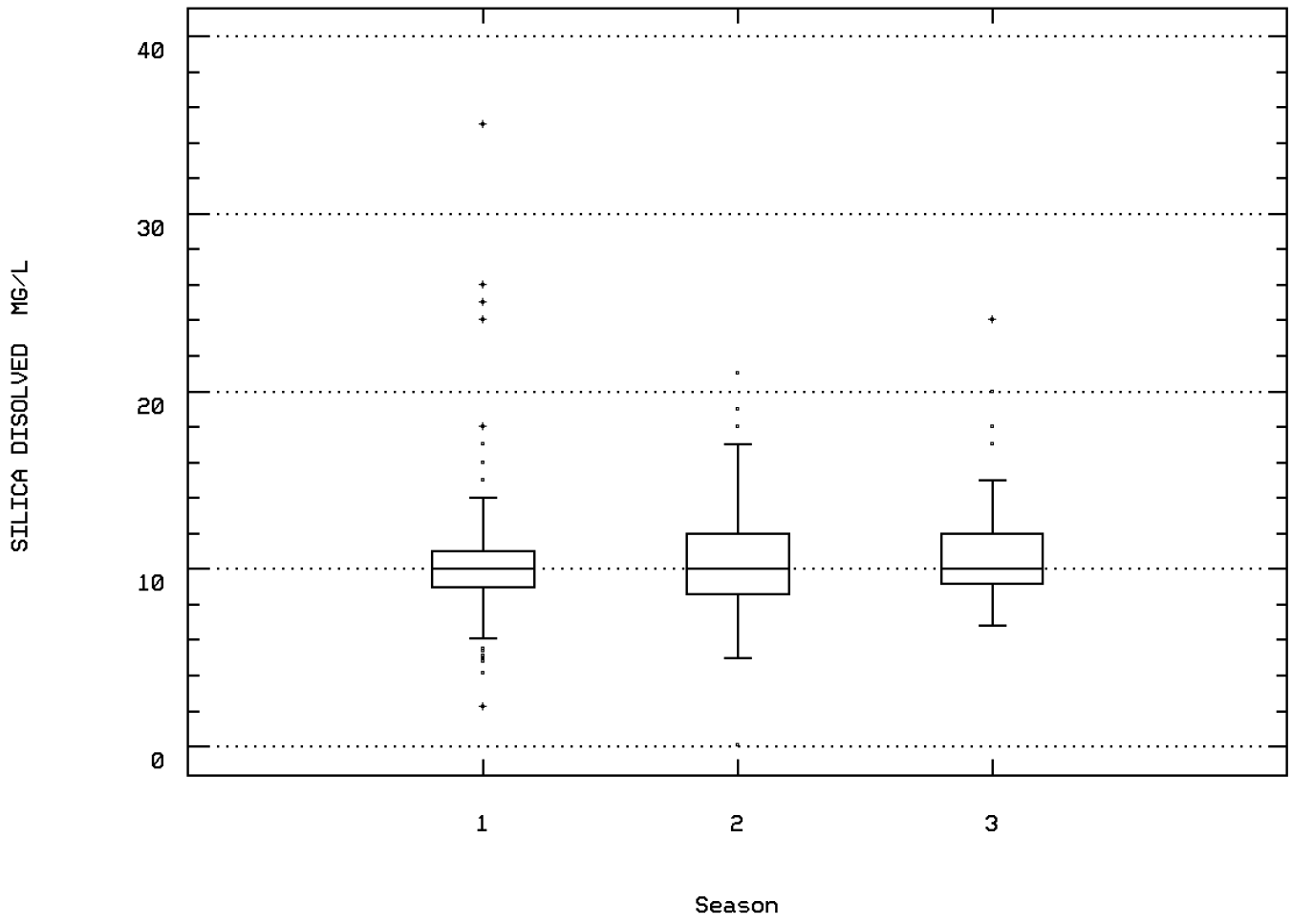
FLUORIDE, DISSOLVED (MG/L AS F)



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 00955

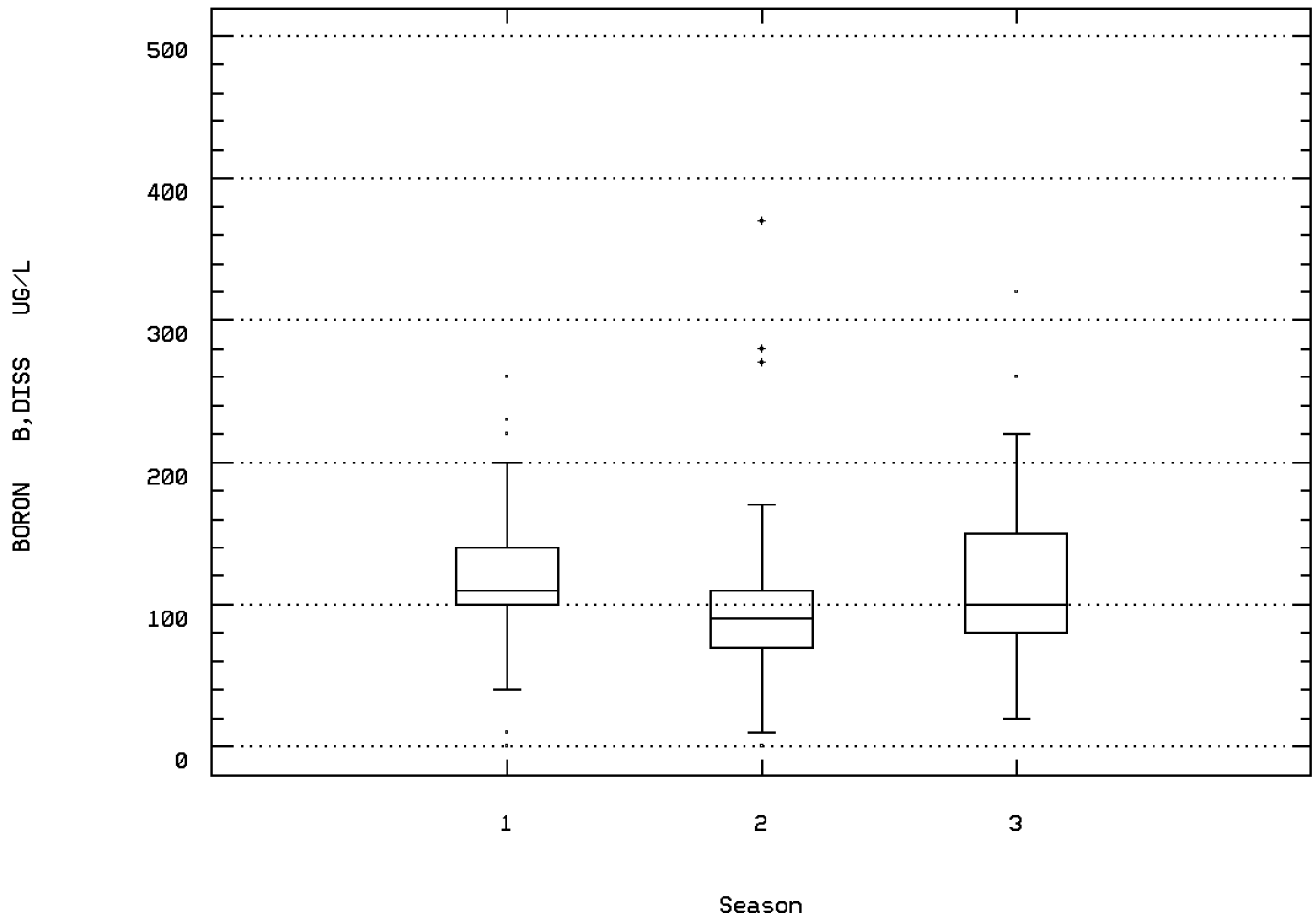
SILICA, DISSOLVED (MG/L AS SI02)



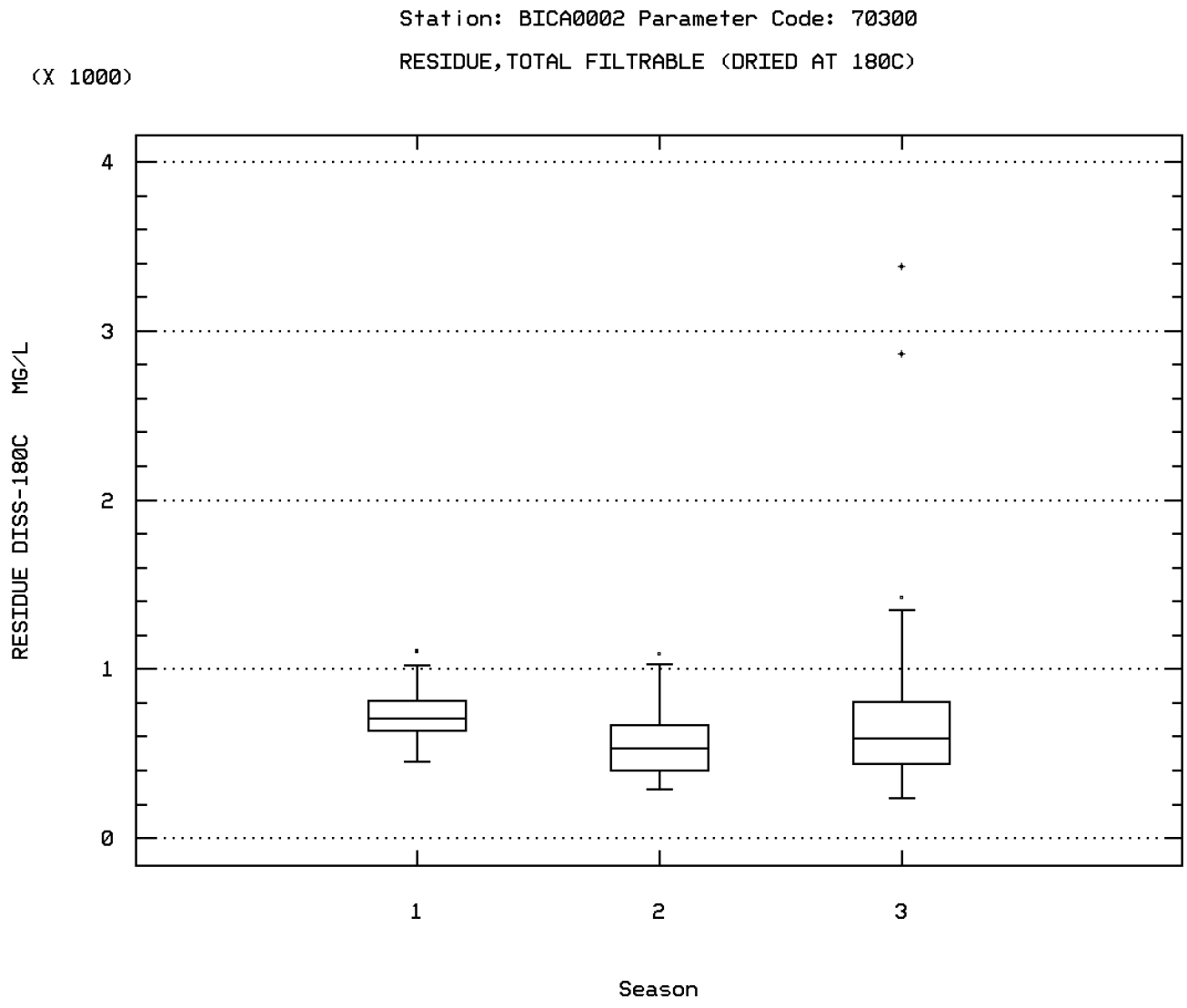
BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 01020

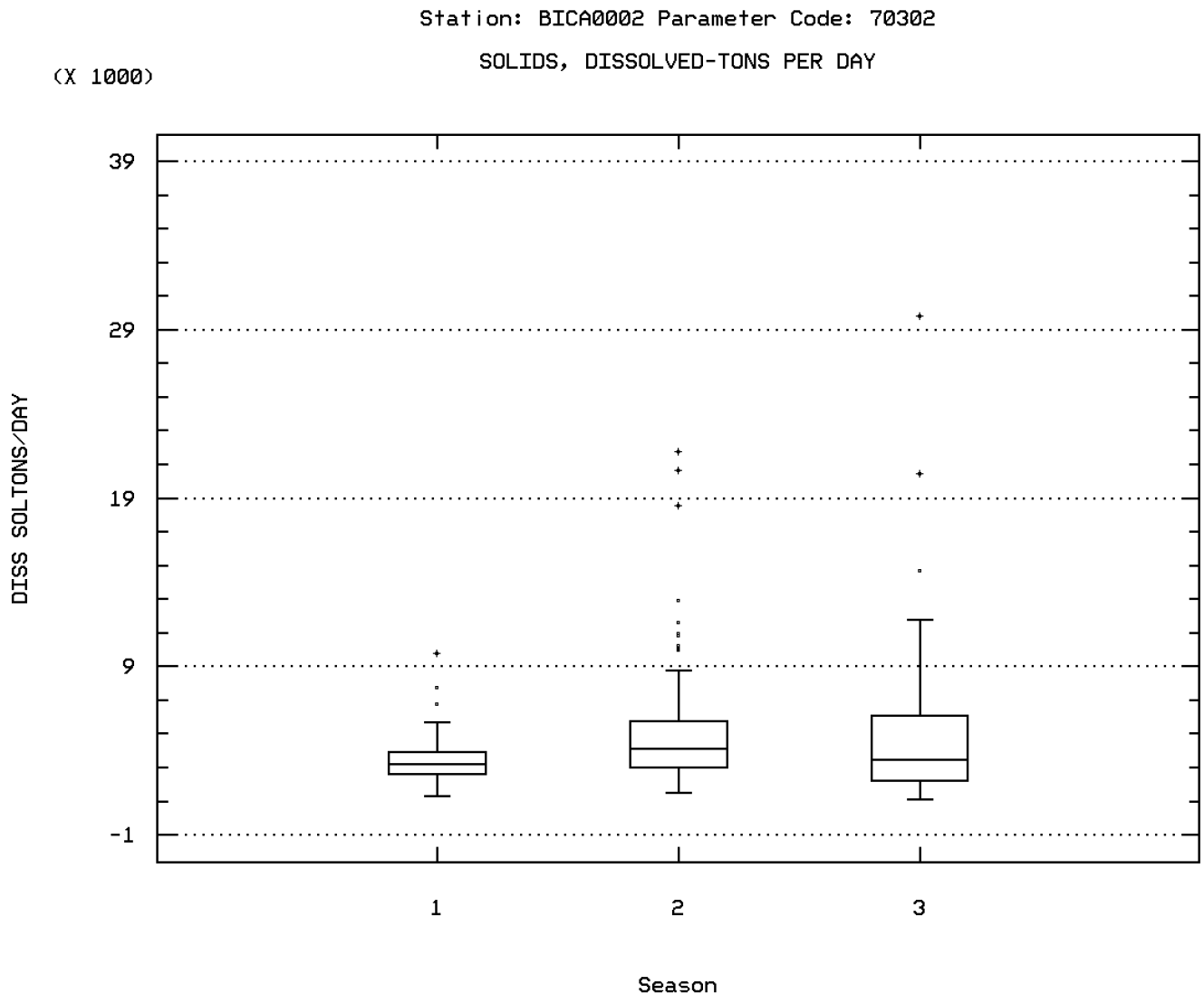
BORON, DISSOLVED (UG/L AS B)



BIGHORN R AT KANE WYO



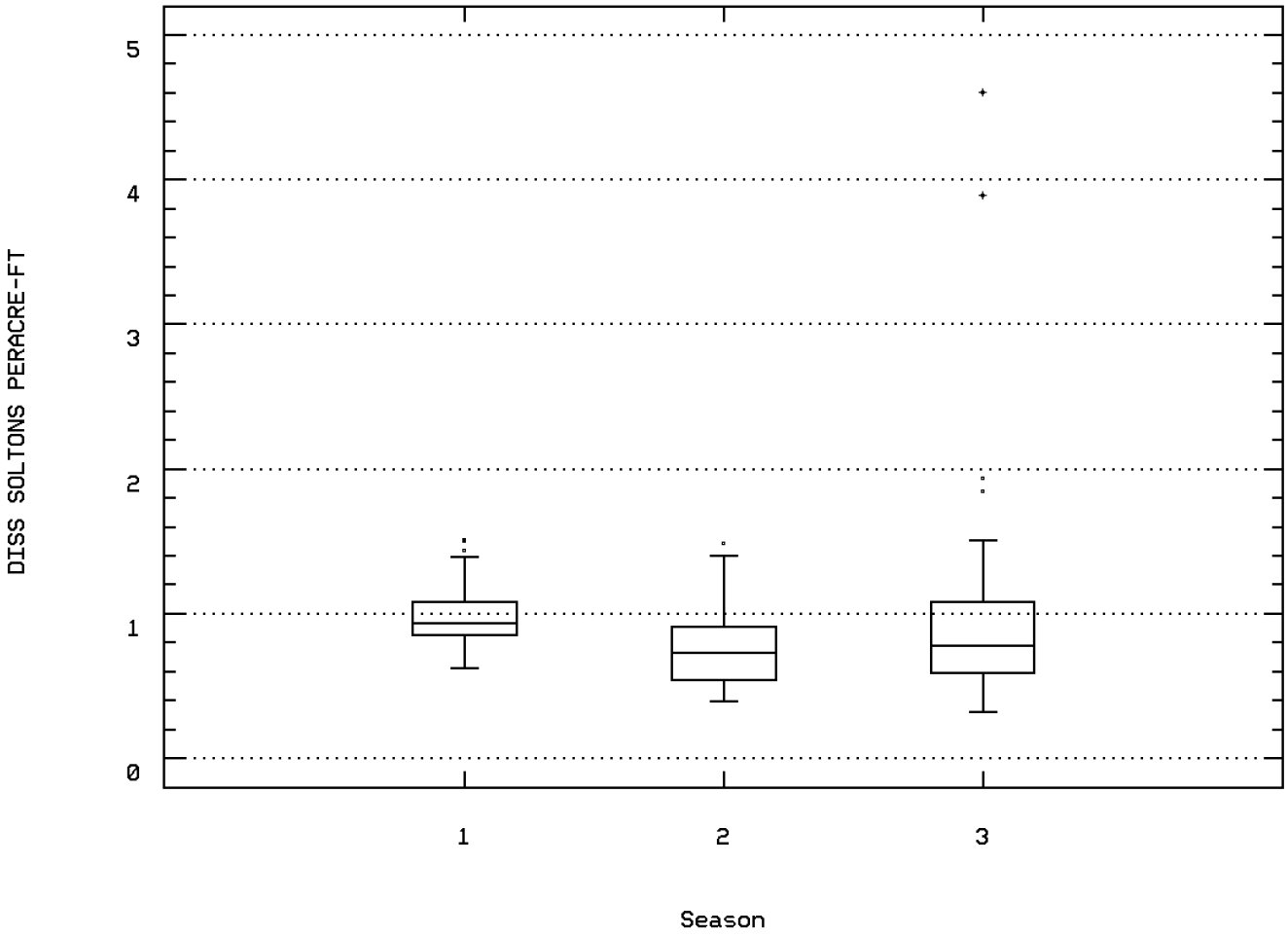
BIGHORN R AT KANE WYO



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70303

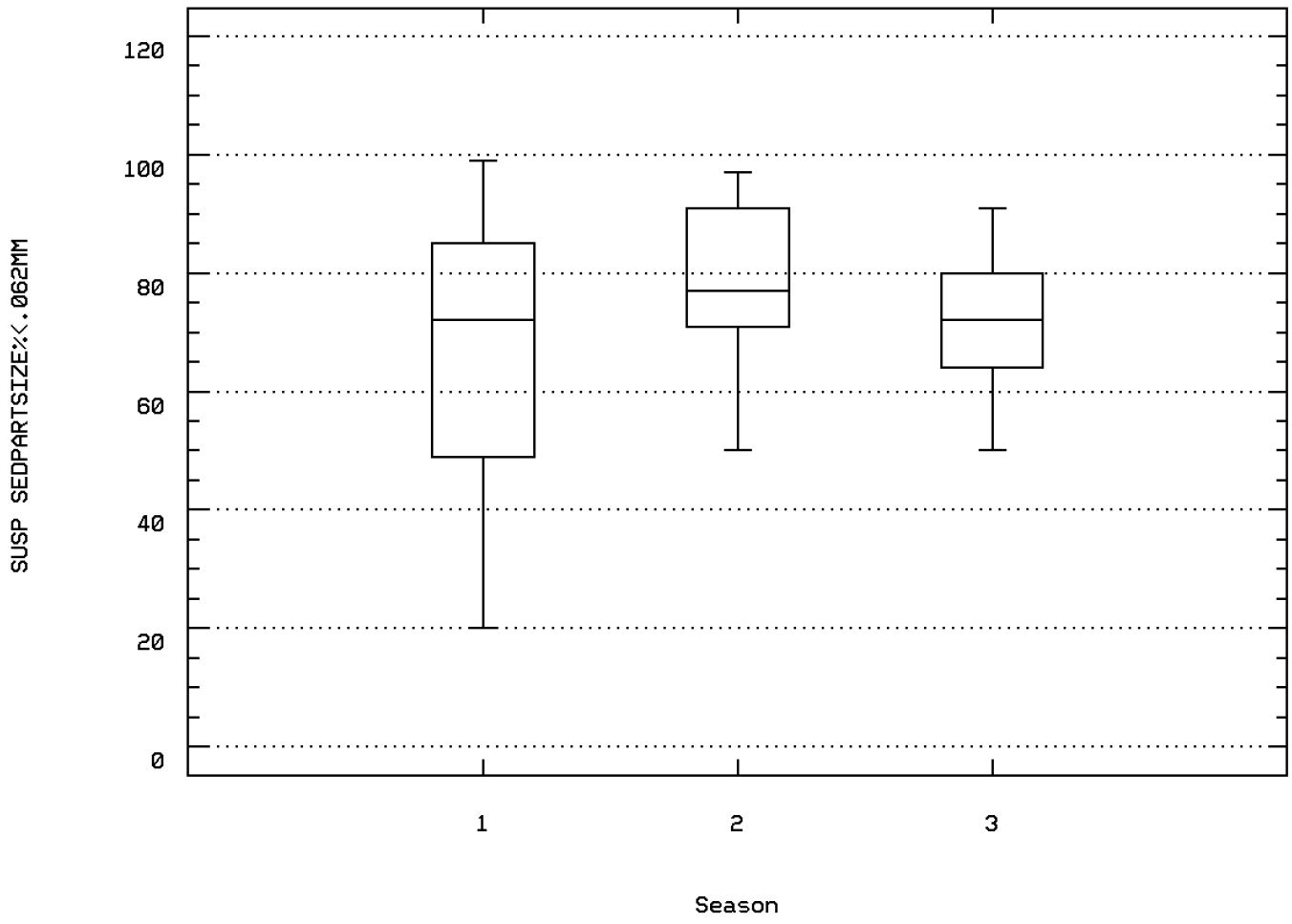
SOLIDS, DISSOLVED-TONS PER ACRE-FT



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70331

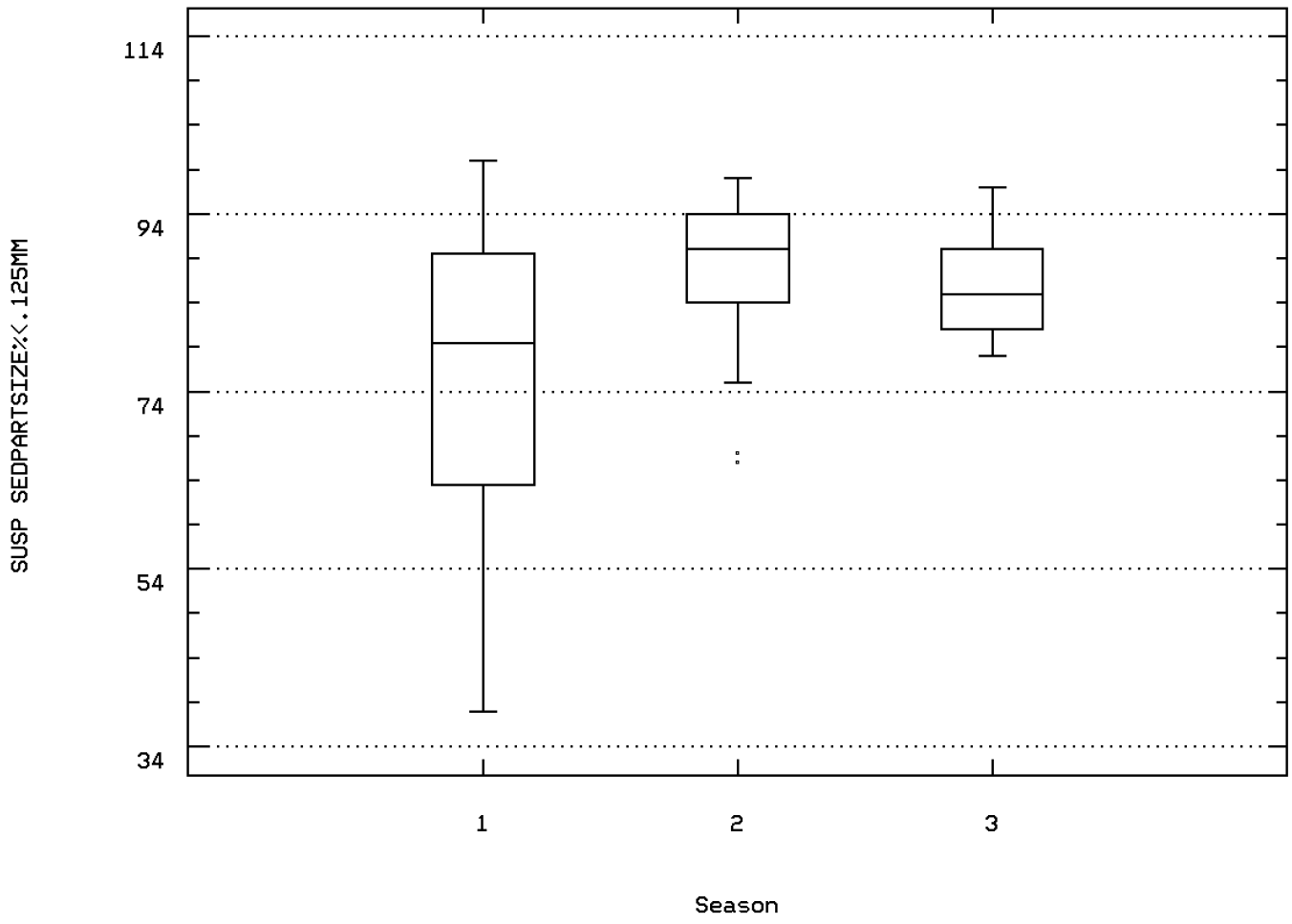
SUSPENDED SED SIEVE DIAMETER,% FINER TH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70332

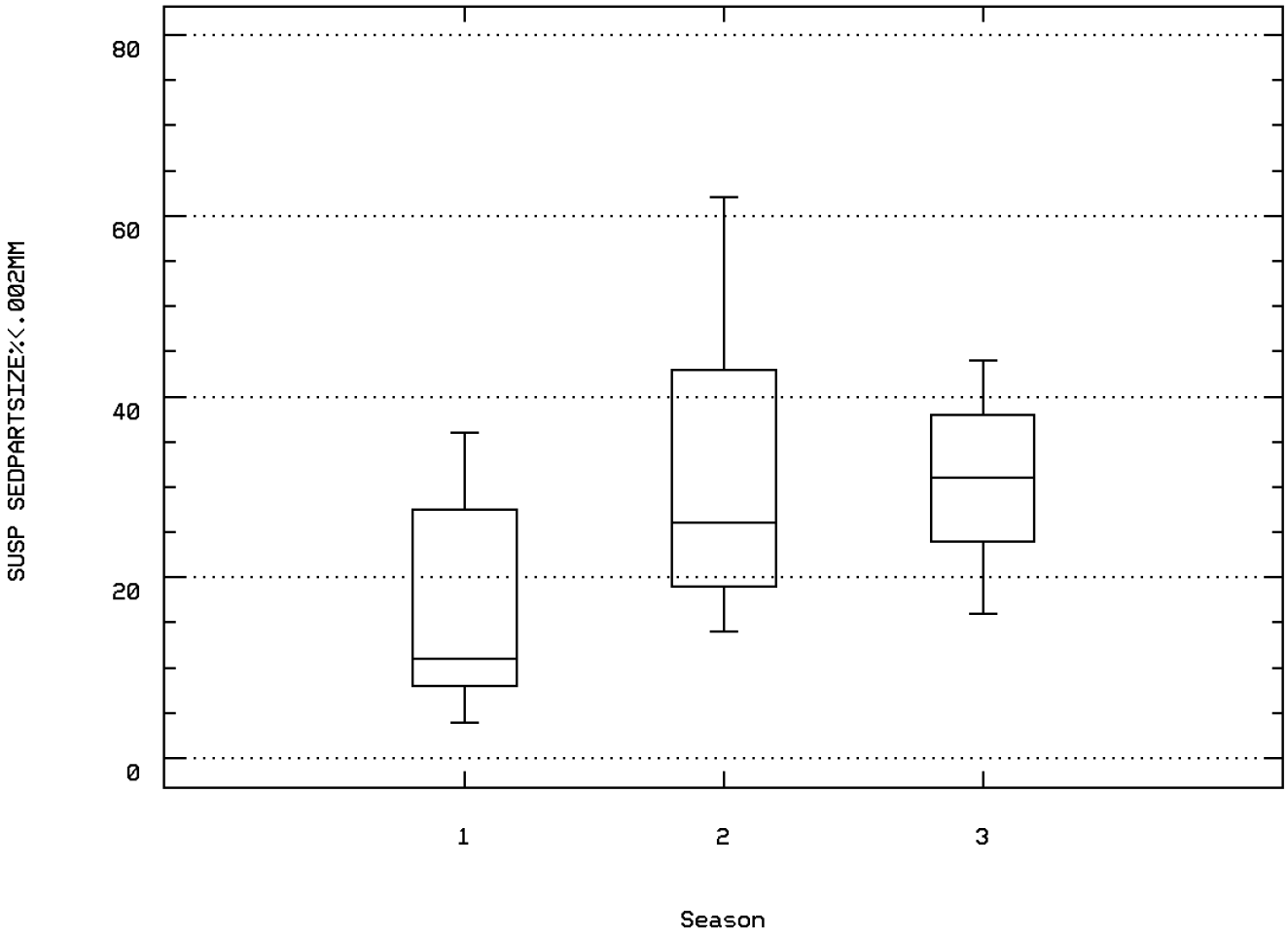
SUSPENDED SED SIEVE DIAMETER,% FINER TH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70337

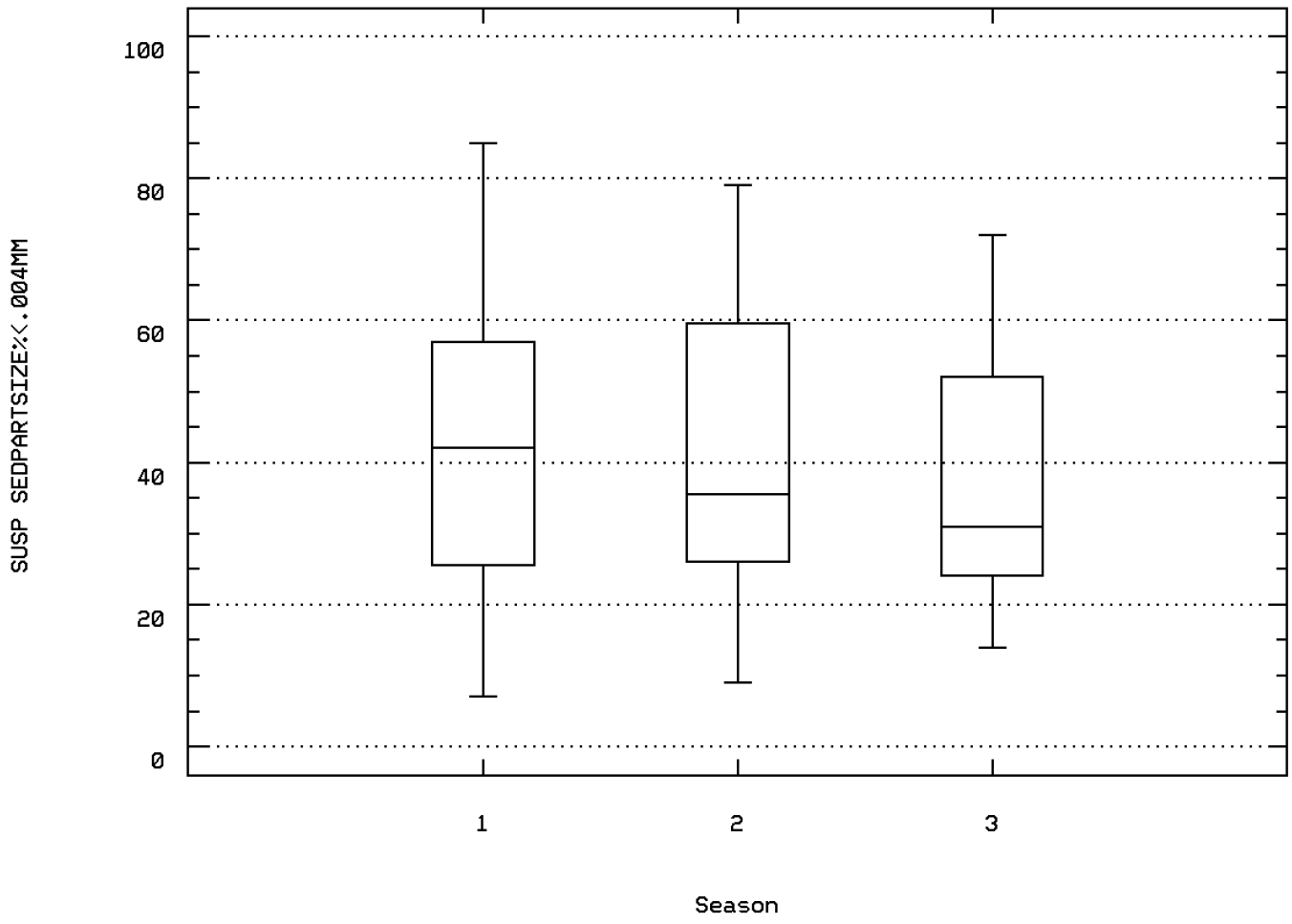
SUS SED FALL DIA(DISTLD WATER)%FINER TH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70338

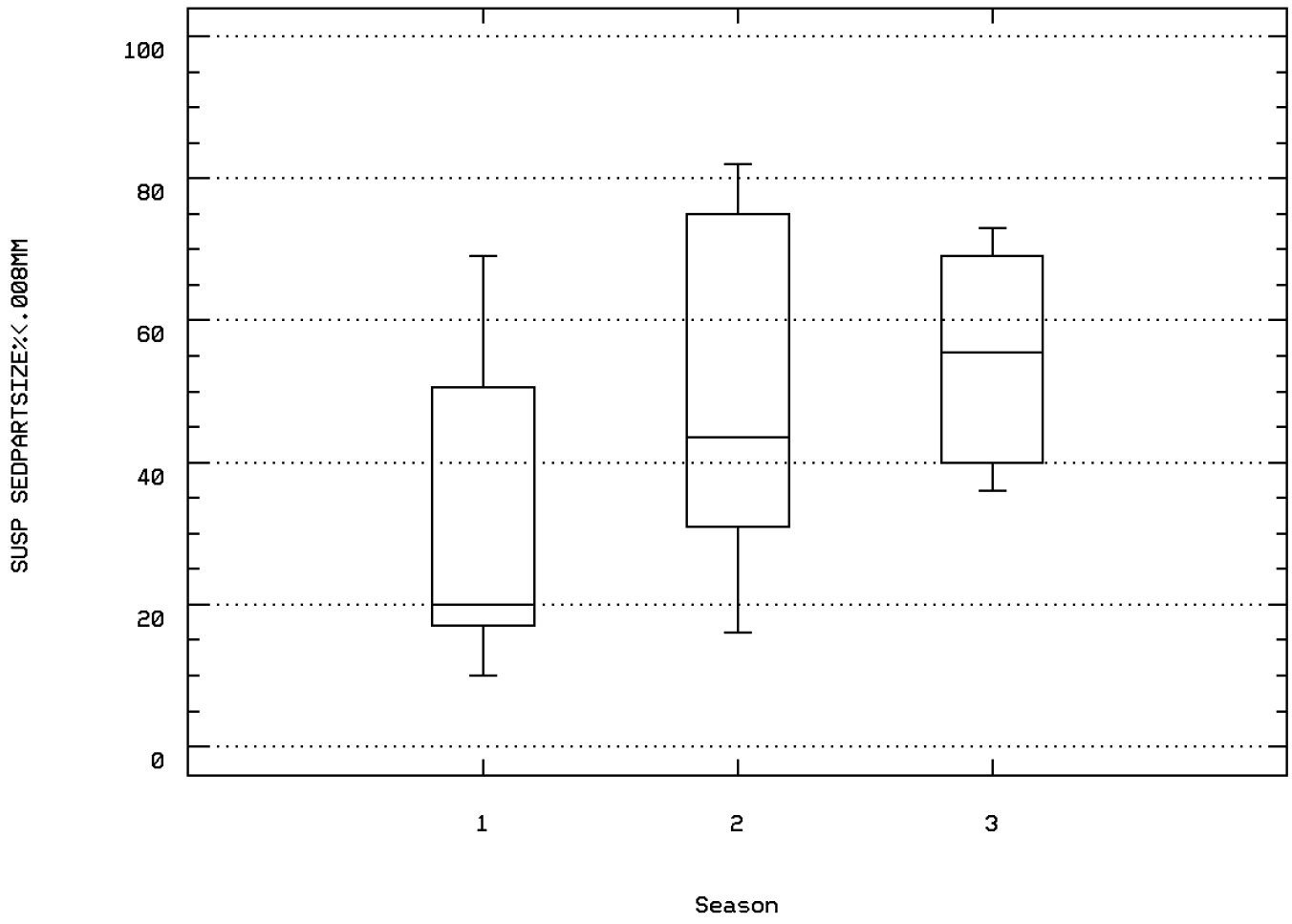
SUS SED FALL DIA(DISTLD WATER)%FINER TH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70339

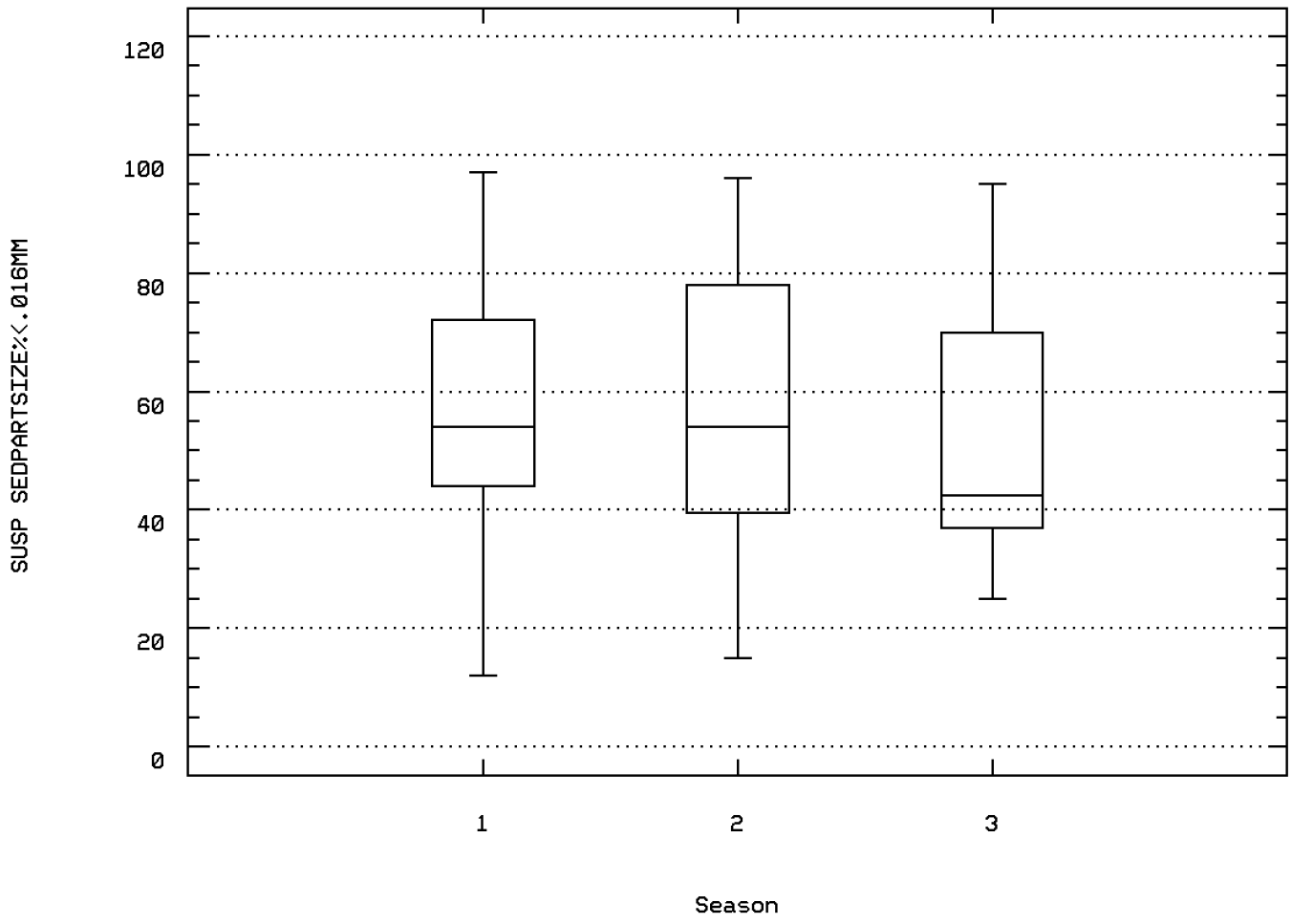
SUS SED FALL DIA(DISTLD WATER)%FINER TH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70340

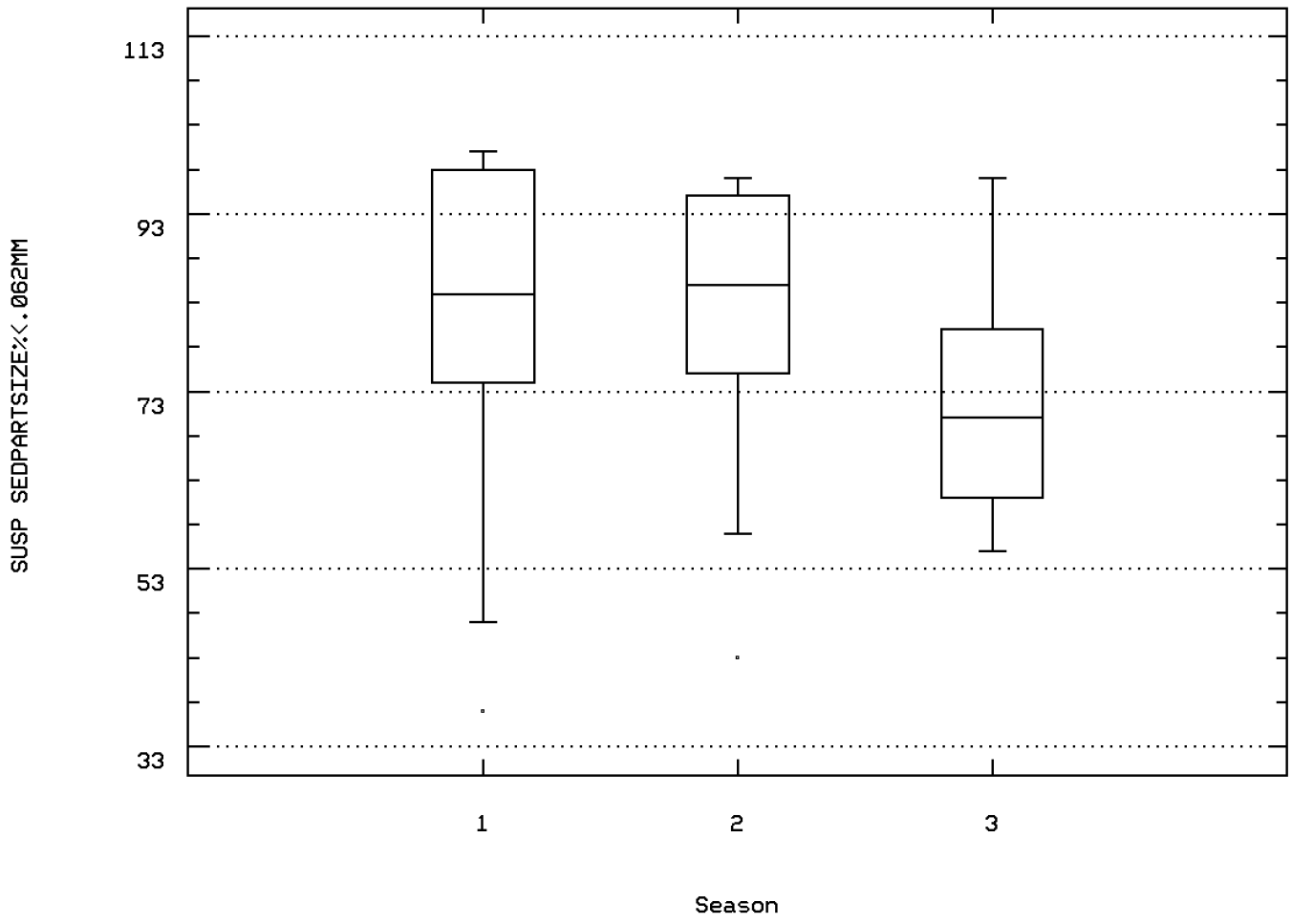
SUS SED FALL DIA(DISTLD WATER)%FINER TH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70342

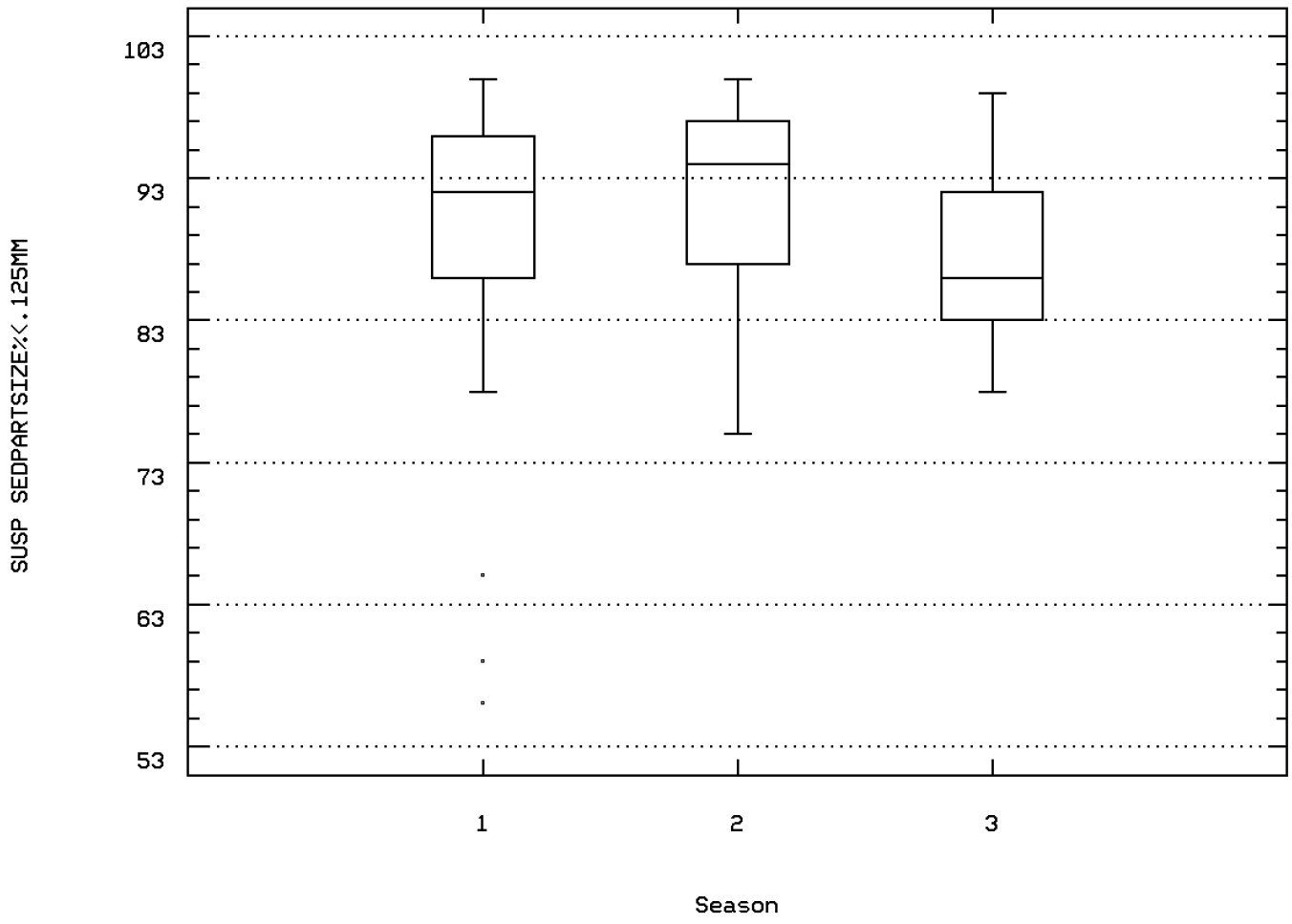
SUS SED FALL DIA(DISTLD WATER)%FINER TH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70343

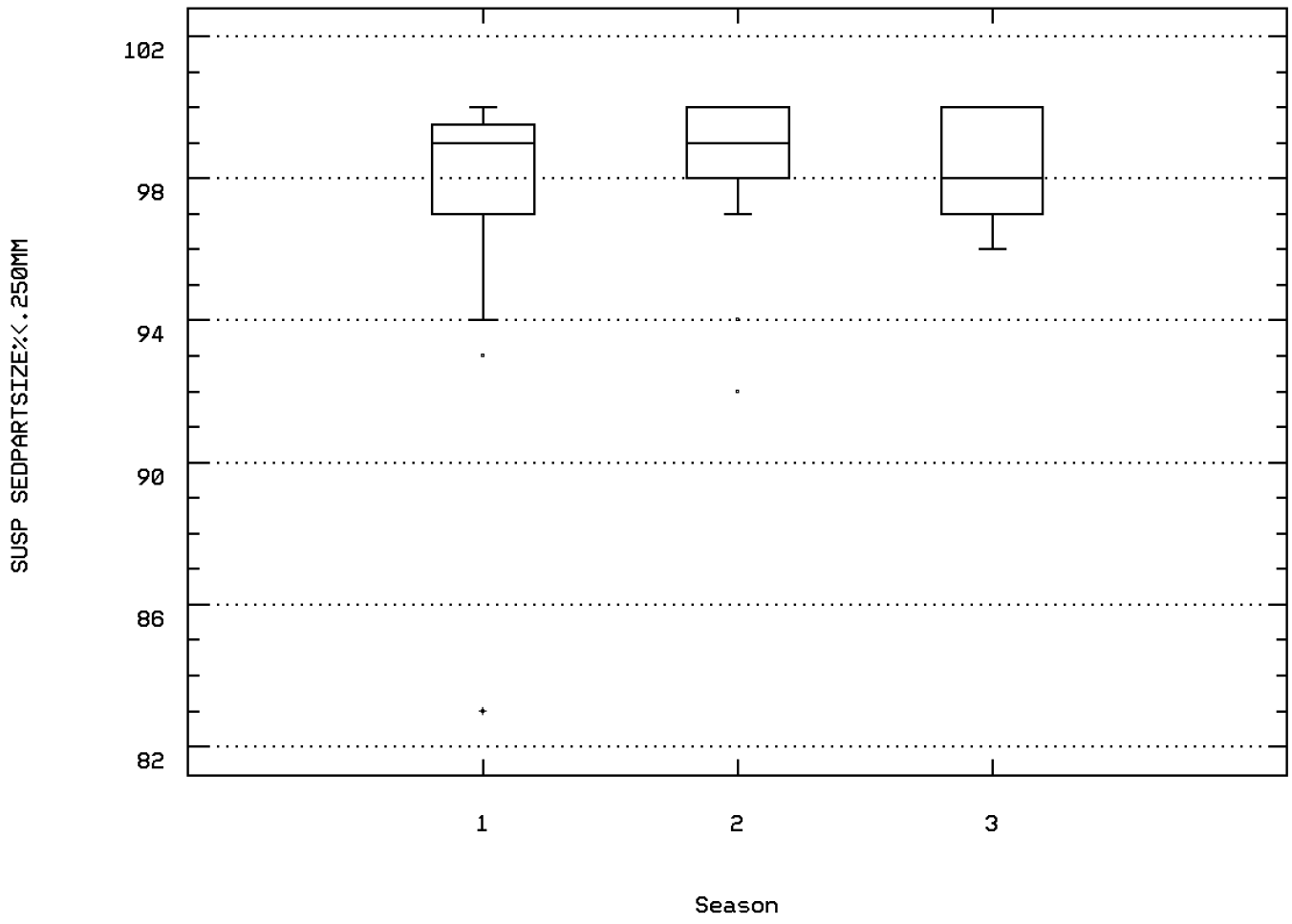
SUS SED FALL DIA(DISTLD WATER)%FINER TH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70344

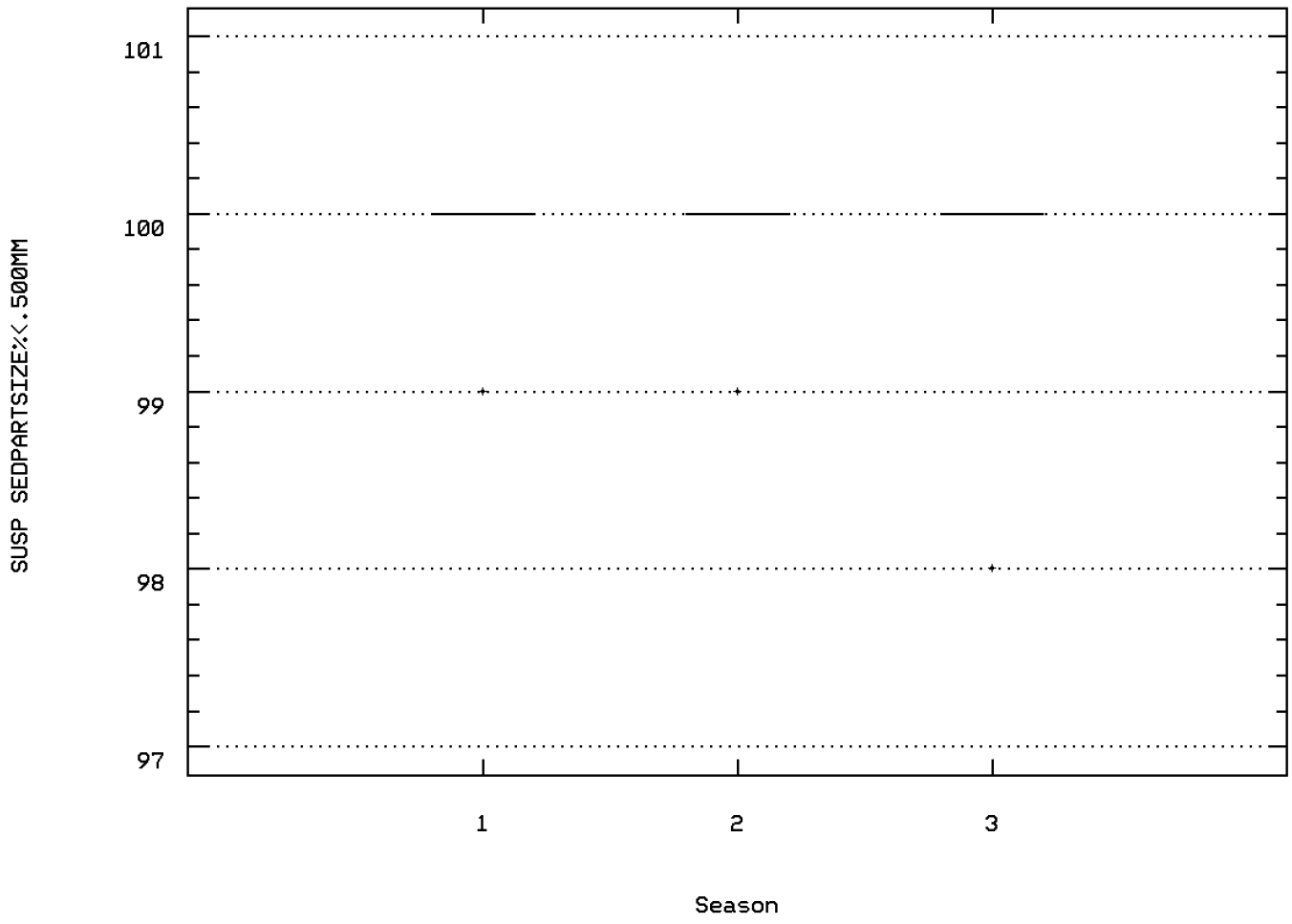
SUS SED FALL DIA(DISTLD WATER)%FINER TH



BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 70345

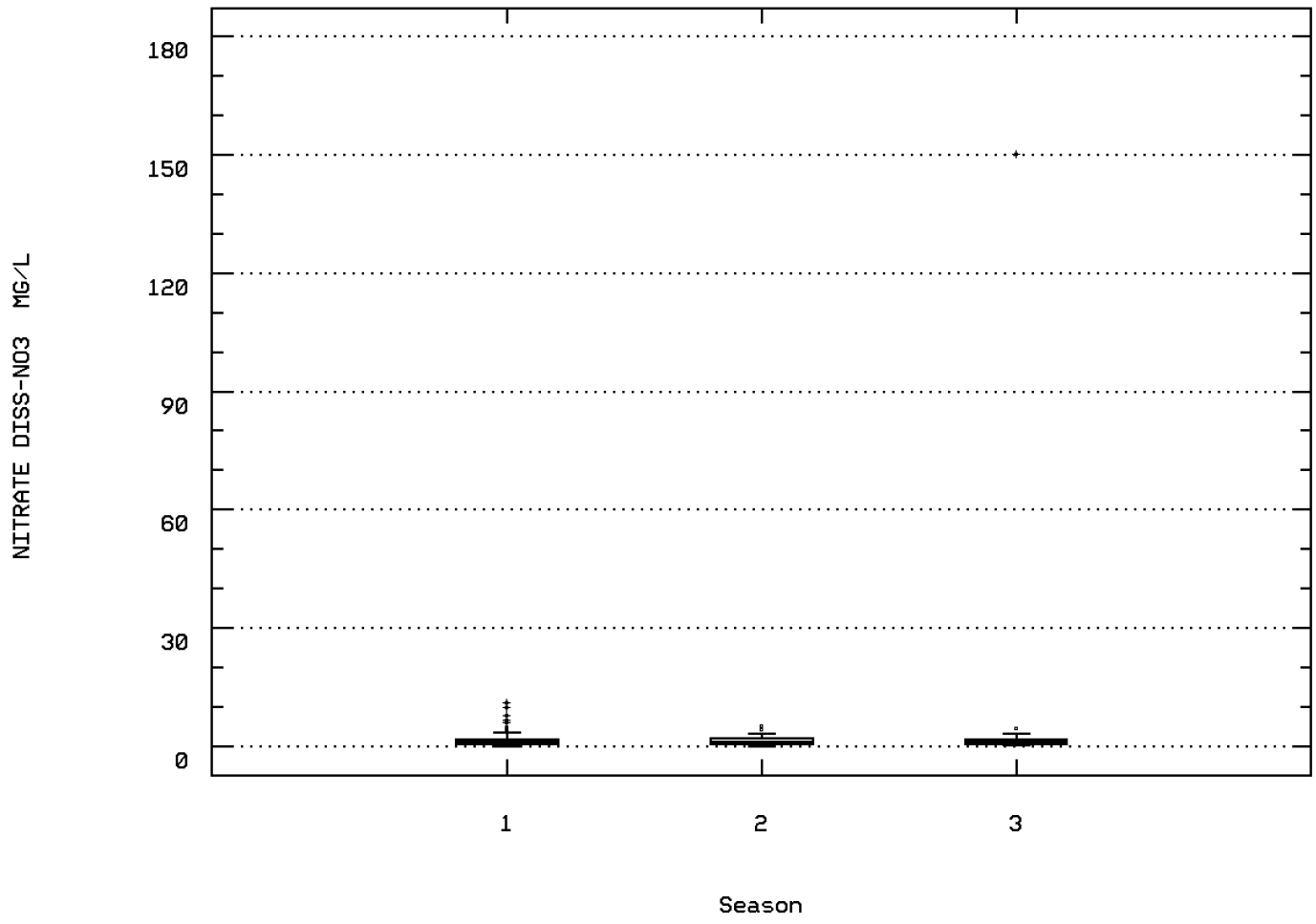
SUS SED FALL DIA(DISTLD WATER)%FINER TH



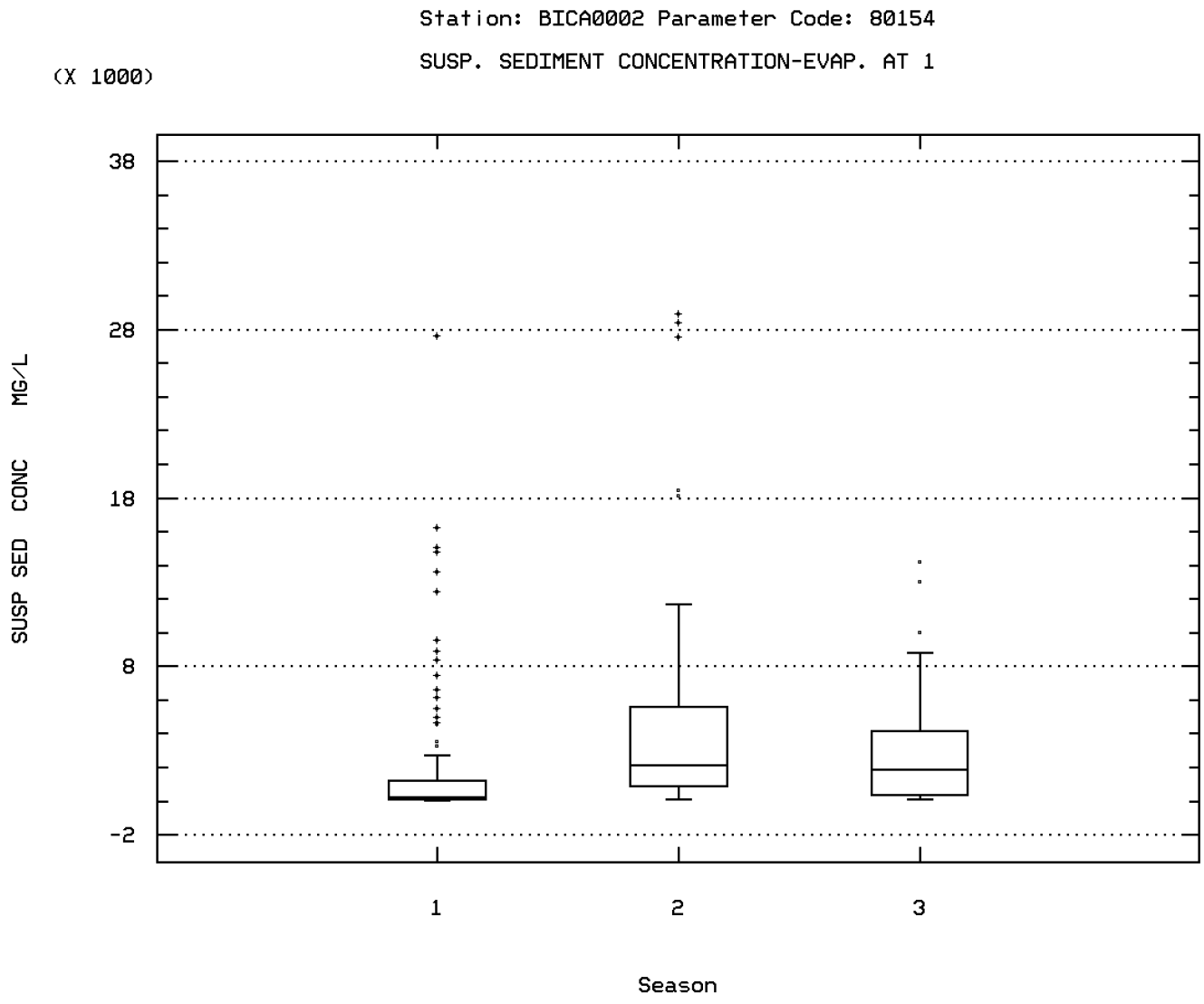
BIGHORN R AT KANE WYO

Station: BICA0002 Parameter Code: 71851

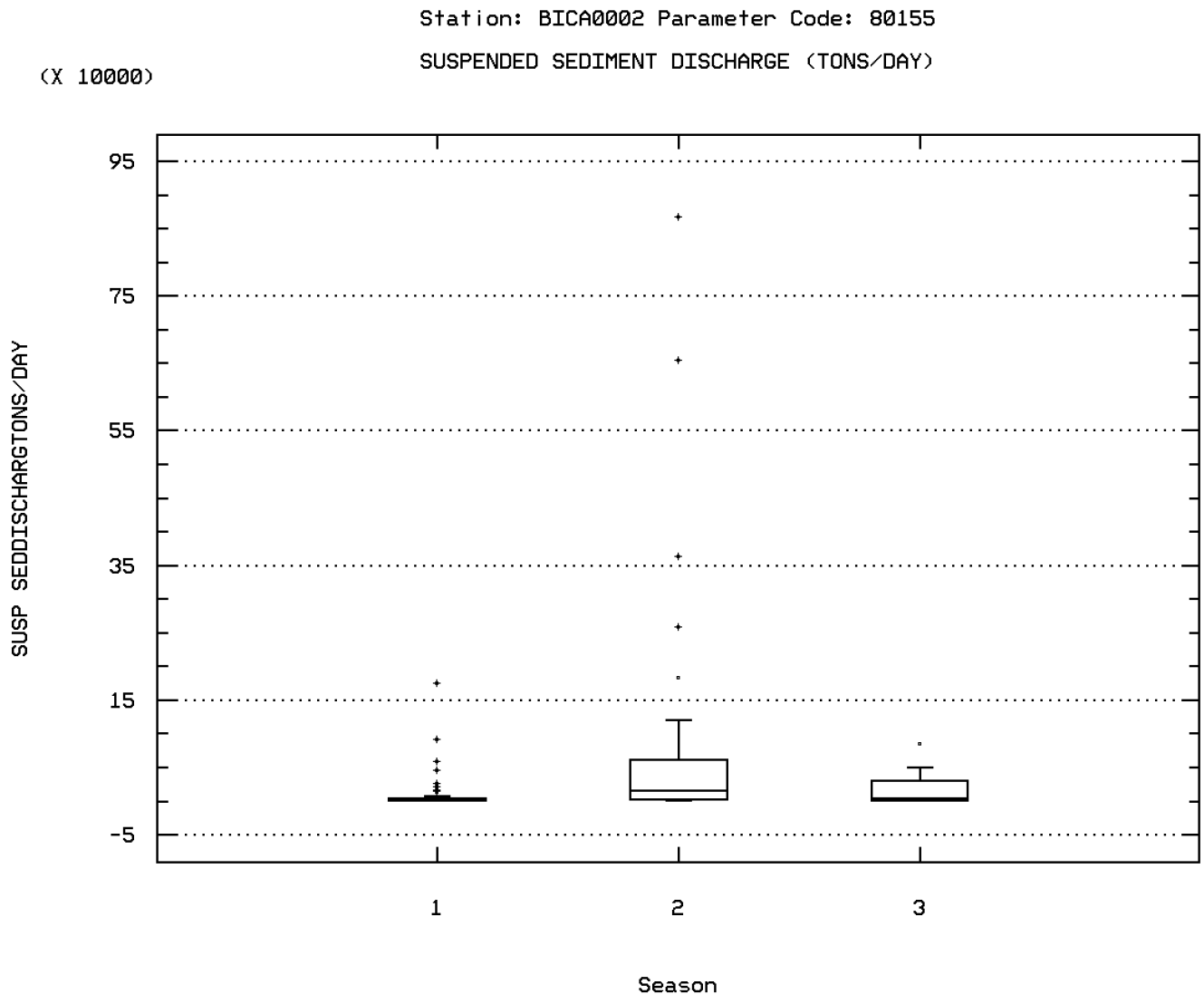
NITRATE NITROGEN, DISSOLVED (MG/L AS NO



BIGHORN R AT KANE WYO



BIGHORN R AT KANE WYO



BIGHORN R AT KANE WYO

Station Inventory for Station: BICA0003

NPS Station ID: BICA0003
LAT/LON: 44.758615/-108.180838
Agency: 1110NET
Date Created: / /
Location: BIGHORN RIVER AT KANE, WYOMING
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 06279500
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE BASIN
ECO Region:
RF1 Index: 10080010042
RF1 Mile Point: 1.310
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 10080014000703.52
RF3 Mile Point: 11.07
Distance from RF3: 0.00
On/Off RF3:
Description:
BIGHORN RIVER @ KANE, WYO. BIG HORN COUNTY, ON RIGHT BANK 180 FT UPSTRE- AM FROM BIGHORN CANYON NATIONAL RECREATION AREA BOUNDARY, 0.5 MILE UPST- REAM FROM NORMAL HIGH-WATER LINE OF BIGHORN LAKE AT ELEVATION 3,660 FT, 1.3 MILES UPSTREAM FROM FIVE SPRING CREEK, AND 5.9 MILES SOUTH OF KANE COOPERATIVE EPA-USGS WATER QUALITY STATION ENTERED AS A EPA NET STATION FOR PURPOSE OF RECORDING: (1)DATA SAMPLED BY USGS BUT ANALYZED BY EPA LABORATORIES AND (2)THE FOLLOWING USGS FIELD DATA; FLOW, WATER TEMPERAT- URE, DO, PH, TOTAL COLIFORM AND FECAL COLIFORM.

Parameter Inventory for Station: BICA0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/19/72-10/31/73	7	0.36	0.429	1.22	0.09	0.167	0.409	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/19/72-10/31/73	7	0.06	0.096	0.255	0.025	0.006	0.08	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/19/72-10/31/73	7	0.024	0.026	0.06	0.003	0.001	0.023	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	07/19/72-10/31/73	7 ##	2.5	3.571	5.	2.5	1.786	1.336	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/19/72-10/31/73	7 ##	5.	5.	10.	2.5	6.25	2.5	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/19/72-10/31/73	7	5.	6.786	14.	2.5	15.155	3.893	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/19/72-10/31/73	7	26.	33.143	66.	20.	248.81	15.774	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/19/72-10/31/73	7	5.	8.	17.	5.	27.	5.196	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/19/72-10/31/73	7	10.	10.857	15.	5.	10.81	3.288	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/19/72-10/31/73	7	10.	19.286	75.	5.	621.238	24.925	**	**	**	**
09503	RADIUM 226, DISSOLVED	07/24/73-07/24/73	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
09505	RADIUM 226, SUSPENDED	07/24/73-07/24/73	1	40.94	40.94	40.94	40.94	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/24/73-07/24/73	1	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
22705	URANIUM, NATURAL, SUSPENDED	07/24/73-07/24/73	1	21.36	21.36	21.36	21.36	0.	0.	**	**	**	**
70299	SOLIDS, SUSP. - RESIDUE ON EVAP. AT 180 C (MG/L)	07/24/73-07/24/73	1	17800.	17800.	17800.	17800.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0003

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	7	0	0.00	3	0	0.00	1	0	0.00	3	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	6 &	2	0.33	2	0	0.00	1	1	1.00	3	1	0.33			
		Drinking Water	5.	6 &	2	0.33	2	0	0.00	1	1	1.00	3	1	0.33			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	7	0	0.00	3	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: BICA0003

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
01040	COPPER, DISSOLVED	Fresh Acute	18.	7	0	0.00	3	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	1300.	7	0	0.00	3	0	0.00	1	0	0.00	3	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	7	0	0.00	3	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	15.	7	1	0.14	3	0	0.00	1	0	0.00	3	1	0.33			
01090	ZINC, DISSOLVED	Fresh Acute	120.	7	0	0.00	3	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	5000.	7	0	0.00	3	0	0.00	1	0	0.00	3	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			
22705	URANIUM, NATURAL SUSPENDED	Drinking Water	20.	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: BICA0004

NPS Station ID: BICA0004
LAT/LON: 44.758615/-108.180838
Agency: 11EPALES
Date Created: / /
Location: BIG HORN RIVER
FIPS State/County: 56000 WYOMING/
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 5614A2
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: T/YELLOWTAIL RESERVOIR
Elevation: 0
Water Body Id:
Minor Basin: GAGING STATN .4 MI W OF DIRT RD
ECO Region:
RF1 Index: 10080010042
RF1 Mile Point: 1.310
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 10080010000100.00
RF3 Mile Point: 0.00
Distance from RF3: 0.02
On/Off RF3:
Description:
BANK SAMPLE AT USGS GAGING STATION .4 MI W OF DIRT RD SEC 9 T55N R94W

Parameter Inventory for Station: BICA0004

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/05/74-09/10/75	11	0.03	0.066	0.41	0.02	0.013	0.114	0.02	0.025	0.04	0.338
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/05/74-10/05/74	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/05/74-10/05/74	1	0.256	0.256	0.256	0.256	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/05/74-09/10/75	10	1.05	1.253	1.9	0.825	0.183	0.427	0.828	0.888	1.7	1.895
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/05/74-09/10/75	11	0.26	0.304	0.73	0.14	0.026	0.161	0.148	0.22	0.32	0.67
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/74-09/10/75	10	0.285	0.322	0.93	0.04	0.083	0.288	0.041	0.058	0.5	0.893
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/05/74-09/10/75	11	0.025	0.022	0.04	0.003	0.	0.015	0.003	0.005	0.035	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: BICA0004

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------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.	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.	11	0	0.00	5	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: BICA0005

NPS Station ID: BICA0005
LAT/LON: 44.758615/-108.180838
Agency: 21WYDHSS
Date Created: 03/19/76
Location: BIGHORN RIVER AT USGS 06279500
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 000506
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010042
RF1 Mile Point: 1.310
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 10080010005400.00
RF3 Mile Point: 0.43
Distance from RF3: 0.12
On/Off RF3:
Description:

Parameter Inventory for Station: BICA0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/75-09/18/75	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
01501	ALPHA, TOTAL	09/18/75-09/18/75	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01502	ALPHA, TOTAL, COUNTING ERROR	09/18/75-09/18/75	1	6.	6.	6.	6.	0.	0.	**	**	**	**
03501	BETA, TOTAL	09/18/75-09/18/75	1	9.	9.	9.	9.	0.	0.	**	**	**	**
03502	BETA, TOTAL, COUNTING ERROR	09/18/75-09/18/75	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

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

Station Inventory for Station: BICA0006

NPS Station ID: BICA0006 LAT/LON: 44.758670/-108.180782 Agency: 11NPSWRD Date Created: 11/15/97
Location: BIGHORN RIVER 6.5 MILES SOUTH OF KANE WYOMING FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): BICA_SOLT_BIGHO
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE KANE WYOMING-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON THE BIGHORN RIVER APPROXIMATELY 6.5 MILES SOUTH OF KANE WYOMING. SAMPLES FROM THIS SITE WERE TAKEN DURING A STUDY OF THE POTENTIAL DECLINE IN FISH PRODUCTION OF A NEWLY IMPOUNDED RESERVOIR. SAMPLING WAS DONE FROM 1968 THROUGH 1970; AND THE RESULTS WERE PUBLISHED IN THE THESIS "LIMNOLOGICAL STUDIES ON BIGHORN LAKE AND ITS TRIBUTARIES" BY RAYMOND SOLTERO (MONTANA STATE UNIVERSITY; JUNE 1971). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/22/68-08/18/69	36	15.85	15.103	28.2	0.	46.505	6.819	5.14	10.35	19.675	23.63
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/22/68-08/18/69	39	258.	711.41	4900.	30.	1128008.933	1062.078	65.	106.	790.	1710.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/22/68-08/18/69	38	860.5	830.711	1247.	412.	43831.833	209.361	482.8	670.75	940.25	1110.6
00403	PH, LAB, STANDARD UNITS SU	02/22/68-08/18/69	38	8.3	8.263	8.5	7.7	0.041	0.203	7.99	8.175	8.4	8.5
00403	CONVERTED PH, LAB, STANDARD UNITS	02/22/68-08/18/69	38	8.3	8.21	8.5	7.7	0.044	0.21	7.99	8.175	8.4	8.5
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/22/68-08/18/69	38	0.005	0.006	0.02	0.003	0.	0.004	0.003	0.004	0.007	0.01
00406	PH, FIELD, STANDARD UNITS SU	02/22/68-08/11/69	34	8.22	8.171	8.63	7.33	0.111	0.332	7.595	8.012	8.413	8.53
00406	CONVERTED PH, FIELD, STANDARD UNITS	02/22/68-08/11/69	34	8.22	8.016	8.63	7.33	0.135	0.368	7.595	8.012	8.413	8.53
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/22/68-08/11/69	34	0.006	0.01	0.047	0.002	0.	0.011	0.003	0.004	0.01	0.026
00440	BICARBONATE ION (MG/L AS HCO3)	02/22/68-08/18/69	40	175.5	167.7	233.	86.	1264.831	35.564	115.1	140.	199.5	208.8
00600	NITROGEN, TOTAL (MG/L AS N)	02/22/68-08/11/69	39	1.03	1.065	2.82	0.17	0.343	0.586	0.37	0.65	1.44	1.78
00602	NITROGEN, DISSOLVED (MG/L AS N)	02/22/68-08/11/69	30	0.435	0.511	1.28	0.03	0.103	0.321	0.13	0.24	0.778	0.937
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/22/68-08/18/69	38	0.255	0.293	1.36	0.	0.068	0.261	0.04	0.15	0.35	0.715
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	02/22/68-08/18/69	38	0.005	0.007	0.028	0.002	0.	0.006	0.003	0.003	0.007	0.011
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/22/68-08/18/69	39	0.36	0.377	0.79	0.09	0.026	0.162	0.2	0.26	0.49	0.58
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	02/22/68-08/18/69	40	0.43	1.356	16.83	0.	9.403	3.066	0.024	0.203	1.108	3.133
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	02/22/68-08/18/69	33	0.06	0.12	1.51	0.	0.07	0.265	0.	0.02	0.09	0.302
00655	PHOSPHATE, POLY (MG/L AS PO4)	03/17/69-08/18/69	22	0.055	0.128	1.23	0.	0.071	0.267	0.	0.	0.13	0.376
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/22/68-08/18/69	40	0.05	0.108	1.55	0.	0.063	0.25	0.	0.01	0.115	0.224
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/19/68-08/18/69	26	15.3	19.073	50.2	5.8	139.804	11.824	7.38	9.425	24.075	38.13
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	08/19/68-08/18/69	26	8.8	9.173	20.	1.2	14.374	3.791	4.82	7.075	10.975	13.99
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	08/19/68-08/18/69	26	5.95	9.696	39.6	0.	111.32	10.551	0.	1.15	13.325	27.15
00916	CALCIUM, TOTAL (MG/L AS CA)	02/22/68-08/18/69	40	74.	70.75	109.8	29.1	287.583	16.958	47.32	58.9	80.65	93.
00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/22/68-08/18/69	40	23.55	22.688	62.8	6.	99.002	9.95	8.15	16.25	27.	31.77

** - Less than 9 observations ## - 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: BICA0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00929	SODIUM, TOTAL (MG/L AS NA)	02/22/68-08/18/69	40	77.7	79.046	156.32	25.75	748.044	27.35	41.564	59.598	91.662	114.366
00937	POTASSIUM, TOTAL MG/L AS K)	02/22/68-08/18/69	40	4.69	4.984	10.56	2.35	2.607	1.615	3.169	3.91	5.763	7.04
00940	CHLORIDE,TOTAL IN WATER MG/L	02/22/68-08/18/69	40	12.	12.425	20.	4.	18.097	4.254	6.1	9.	15.75	18.9
00945	SULFATE, TOTAL (MG/L AS SO4)	02/22/68-08/18/69	39	271.	260.974	398.	50.	7372.657	85.864	148.	202.	337.	360.
00951	FLUORIDE, TOTAL (MG/L AS F)	02/22/68-08/18/69	40	0.57	0.679	2.09	0.38	0.081	0.285	0.38	0.57	0.76	0.931
00956	SILICA, TOTAL (MG/L AS SI02)	03/07/68-08/18/69	37	8.8	9.227	19.4	6.3	5.664	2.38	6.56	7.7	10.25	11.54
01042	COPPER, TOTAL (UG/L AS CU)	02/22/68-08/18/69	39	2.	2.479	22.	0.5	14.985	3.871	0.8	1.	2.	4.
01055	MANGANESE, TOTAL (UG/L AS MN)	02/22/68-08/18/69	39	75.	158.641	2145.	0.	122033.605	349.333	5.	9.	207.	374.
01092	ZINC, TOTAL (UG/L AS ZN)	03/28/68-08/18/69	36	44.5	62.056	232.	0.	3271.368	57.196	9.1	23.	78.	160.5
74010	IRON, TOTAL (MG/L AS FE)	02/22/68-08/18/69	38	0.235	0.775	4.02	0.001	1.177	1.085	0.01	0.045	1.085	2.853

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

EPA Water Quality Criteria Analysis for Station: BICA0006

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	39	37	0.95	17	15	0.88	12	12	1.00	10	10	1.00			
00403	PH, LAB	Fresh Chronic	9.	38	0	0.00	16	0	0.00	13	0	0.00	9	0	0.00			
		Other-Lo Lim.	6.5	38	0	0.00	16	0	0.00	13	0	0.00	9	0	0.00			
00406	PH, FIELD	Fresh Chronic	9.	34	0	0.00	12	0	0.00	12	0	0.00	10	0	0.00			
		Other-Lo Lim.	6.5	34	0	0.00	12	0	0.00	12	0	0.00	10	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	38	0	0.00	16	0	0.00	12	0	0.00	10	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	39	0	0.00	17	0	0.00	12	0	0.00	10	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	40	0	0.00	17	0	0.00	13	0	0.00	10	0	0.00			
		Drinking Water	250.	40	0	0.00	17	0	0.00	13	0	0.00	10	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	39	26	0.67	17	17	1.00	12	3	0.25	10	6	0.60			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	40	0	0.00	17	0	0.00	13	0	0.00	10	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	39	1	0.03	17	1	0.06	12	0	0.00	10	0	0.00			
		Drinking Water	1300.	39	0	0.00	17	0	0.00	12	0	0.00	10	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	36	8	0.22	15	2	0.13	12	2	0.17	9	4	0.44			
		Drinking Water	5000.	36	0	0.00	15	0	0.00	12	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: BICA0007

NPS Station ID: BICA0007
LAT/LON: 44.812809/-108.095003
Agency: 11NPSWRD
Date Created: 11/08/97
Location: W00313
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_039 /1151484
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE COTTONWOOD CANYON WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0007

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/01/76-08/01/76	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/01/76-08/01/76	1	600.	600.	600.	600.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/01/76-08/01/76	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/01/76-08/01/76	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/01/76-08/01/76	1	0.158	0.158	0.158	0.158	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/01/76-08/01/76	1	3.15	3.15	3.15	3.15	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0007

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0008

NPS Station ID: BICA0008
LAT/LON: 44.813310/-108.187198
Agency: 11NPSWRD
Date Created: 11/08/97
Location: W00216
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_120 /1151533
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE KANE WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS INSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/76-07/24/76	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/24/76-07/24/76	1	400.	400.	400.	400.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/24/76-07/24/76	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/24/76-07/24/76	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/24/76-07/24/76	1	0.158	0.158	0.158	0.158	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/24/76-07/24/76	1	2.68	2.68	2.68	2.68	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0008

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0009

NPS Station ID: BICA0009
LAT/LON: 44.816116/-108.064392
Agency: 11NPSWRD
Date Created: 11/08/97
Location: W00316
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_036 /1151485
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE COTTONWOOD CANYON WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/01/76-08/01/76	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/01/76-08/01/76	1	440.	440.	440.	440.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/01/76-08/01/76	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/01/76-08/01/76	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/01/76-08/01/76	1	0.158	0.158	0.158	0.158	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/01/76-08/01/76	1	0.93	0.93	0.93	0.93	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0009

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0010

NPS Station ID: BICA0010 LAT/LON: 44.819253/-108.180948 Agency: 11NPSWRD Date Created: 12/20/97
Location: BIGHORN RIVER 1/2 MILE SOUTH OF BIGHORN LAKE FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): BICA_CSU_BIGHOR
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE KANE WYOMING-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON THE BIGHORN RIVER APPROXIMATELY 1/2 MILE SOUTH OF BIGHORN LAKE. SAMPLES FOR THIS SITE WERE COLLECTED FROM JUNE 1980 TO APRIL 1981. SAMPLES WERE ANALYZED FOR TEMPERATURE; PH; SPECIFIC CONDUCTANCE; TURBIDITY; SOLUBLE ORTHOPHOSPHATE; TOTAL PHOSPHATE; TOTAL AMMONIA; NITRATE; AND ALKALINITY. THE RESULTS WERE PUBLISHED IN THE REPORT "EVALUATION OF WATER QUALITY AND RATE OF SEDIMENTATION IN BIGHORN LAKE; BIGHORN CANYON NATIONAL RECREATION AREA" BY G. FRED LEE AND R. ANNE JONES (COLORADO STATE UNIVERSITY; DECEMBER 1981). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/09/80-04/01/81	11	12.5	11.	23.	-1.	82.45	9.08	0.	6.	19.	22.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/09/80-11/26/80	8	738.5	700.	768.	543.	5972.	77.279	**	**	**	**
00400	PH (STANDARD UNITS)	06/09/80-04/01/81	10	8.1	8.02	8.2	7.7	0.024	0.155	7.71	7.95	8.1	8.19
00400	CONVERTED PH (STANDARD UNITS)	06/09/80-04/01/81	10	8.1	7.992	8.2	7.7	0.025	0.158	7.71	7.95	8.1	8.19
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/09/80-04/01/81	10	0.008	0.01	0.02	0.006	0.	0.004	0.006	0.008	0.011	0.02
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/09/80-10/16/80	6	176.	180.833	204.	160.	271.767	16.485	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/09/80-10/16/80	6	0.084	0.093	0.15	0.058	0.001	0.037	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/09/80-08/06/80	4	1.34	1.688	3.4	0.67	1.694	1.301	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/09/80-08/06/80	4	0.245	0.908	3.	0.14	1.949	1.396	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/09/80-04/01/81	12	0.018	0.015	0.031	0.001	0.	0.01	0.001	0.005	0.024	0.03
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	06/09/80-11/26/80	8	81.5	930.5	6400.	32.	4905970.286	2214.943	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0010

			Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400 PH	Fresh Chronic	9.	10	0	0.00	6	0	0.00	1	0	0.00	3	0	0.00			
	Other-Lo Lim.	6.5	10	0	0.00	6	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: BICA0010

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	4	0	0.00				1	0	0.00	3	0	0.00			
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	8	5	0.63	5	3	0.60	1	1	1.00	2	1	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: BICA0011

NPS Station ID: BICA0011
LAT/LON: 44.821892/-108.122810
Agency: 11NPSWRD
Date Created: 11/08/97
Location: W00312
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_122 /1151545
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE COTTONWOOD CANYON WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/01/76-08/01/76	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/01/76-08/01/76	1	350.	350.	350.	350.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/01/76-08/01/76	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/01/76-08/01/76	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/01/76-08/01/76	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/01/76-08/01/76	1	1.64	1.64	1.64	1.64	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0011

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0012

NPS Station ID: BICA0012
LAT/LON: 44.830003/-108.152198
Agency: 11NPSWRD
Date Created: 11/08/97
Location: W00261
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_121 /1151540
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE KANE WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/31/76-07/31/76	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/31/76-07/31/76	1	360.	360.	360.	360.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/31/76-07/31/76	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/31/76-07/31/76	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/31/76-07/31/76	1	0.126	0.126	0.126	0.126	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/31/76-07/31/76	1	1.44	1.44	1.44	1.44	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0012

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0013

NPS Station ID: BICA0013
LAT/LON: 44.833338/-108.083338
Agency: 11NPSWRD
Date Created: 11/01/97
Location: WILCOCK POND EAST OF LOVELL WY
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): BICA_WRDS_6 /42069702:0
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 4600
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
The Wyoming Game and Fish Department collected the data stored at this station. The Wyoming Water Resources Center entered these data into the Wyoming Water Resources Data System (WRDS) which is a clearinghouse of hydrological and climatological data for the State of Wyoming. WRDS can be accessed on-line at: WWW-WWRC.UWYO.EDU/WRDS. WRDS staff can be contacted at PO Box 3067 Laramie WY 82071-3067; Tel. 307-766-6651; Fax. 307-766-3785; E-Mail: WRDS@UWYO.EDU. This was one of 9 stations for Bighorn Canyon NRA that were uploaded to STORET from the WRDS. These data are locked in STORET (can't be accessed without the NPS Unlocking Key) so the Wyoming Water Resources Center doesn't provide duplicative data to its clients (from STORET & WRDS). The station is located on the Cottonwood Canyon WY 7.5' USGS topographic quadrangle. The data were uploaded to STORET by Dean Tucker; National Park Service Water Resources Division; 1201 Oak Ridge Drive Suite 250; Fort Collins CO 80525 (tel. 970-225-3516).

Parameter Inventory for Station: BICA0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/12/69-05/12/69	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/12/69-05/12/69	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/12/69-05/12/69	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/12/69-05/12/69	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/12/69-05/12/69	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00411	ALKALINITY,METHYLORANGE MG/L	05/12/69-05/12/69	1	171.	171.	171.	171.	0.	0.	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/12/69-05/12/69	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/12/69-05/12/69	1	118.	118.	118.	118.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0013

			Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	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: BICA0013

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400 PH	Fresh Chronic	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: BICA0014

NPS Station ID: BICA0014
LAT/LON: 44.833338/-108.383337
Agency: 11NPSWRD
Date Created: 11/01/97
Location: CITY OF LOVELL WY
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/MUN/INTAKE/AMBNT/STREAM
STORET Station ID(s): BICA_WRDS_9 /WRDS-00086:0
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080014
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 3850
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080014
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
The Wyoming Department of Environmental Quality collected the data stored at this station. The Wyoming Water Resources Center entered these data into the Wyoming Water Resources Data System (WRDS) which is a clearinghouse of hydrological and climatological data for the State of Wyoming. WRDS can be accessed on-line at: WWW-WWRC.UWYO.EDU/WRDS. WRDS staff can be contacted at PO Box 3067 Laramie WY 82071-3067; Tel. 307-766-6651; Fax. 307-766-3785; E-Mail: WRDS@UWYO.EDU. This was one of 9 stations for Bighorn Canyon NRA that were uploaded to STORET from the WRDS. These data are locked in STORET (can't be accessed without the NPS Unlocking Key) so the Wyoming Water Resources Center doesn't provide duplicative data to its clients (from STORET & WRDS). The station is located on the Lovell WY 7.5' USGS topographic quadrangle. The data were uploaded to STORET by Dean Tucker; National Park Service Water Resources Division; 1201 Oak Ridge Drive Suite 250; Fort Collins CO 80525 (tel. 970-225-3516).

Parameter Inventory for Station: BICA0014

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	02/08/73-02/08/73	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	02/08/73-02/08/73	1 ##	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	02/08/73-02/08/73	1 ##	250.	250.	250.	250.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	02/08/73-02/08/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	02/08/73-02/08/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	02/08/73-02/08/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	02/08/73-02/08/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	02/08/73-02/08/73	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	02/08/73-02/08/73	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	02/08/73-02/08/73	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: BICA0014

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00720	CYANIDE, TOTAL	Fresh Acute	0.022	1	0	0.00	1	0	0.00									
		Drinking Water	0.2	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									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	0 &	0	0.00												
		Drinking Water	5.	0 &	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									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0015

NPS Station ID: BICA0015
LAT/LON: 44.835560/-108.412781
Agency: 21WYDHSS
Date Created: 09/03/83
Location: LOVELL WTP INTAKE-SHOSHONE RIVER
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/MUN/INTAKE/AMBNT/STREAM
STORET Station ID(s): 090302
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080014
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080014005
RF1 Mile Point: 2.940
Distance from RF1: 8.10
On/Off RF1: ON
RF3 Index: 10080010011400.83
RF3 Mile Point: 0.85
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: BICA0015

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/83-08/07/85	11	10.	9.545	20.	0.	49.873	7.062	0.4	4.	17.	19.8
00400	PH (STANDARD UNITS)	02/15/83-08/07/85	10	8.335	8.28	8.93	7.1	0.228	0.477	7.21	8.2	8.475	8.907
00400	CONVERTED PH (STANDARD UNITS)	02/15/83-08/07/85	10	8.334	7.925	8.93	7.1	0.367	0.606	7.21	8.2	8.475	8.907
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/15/83-08/07/85	10	0.005	0.012	0.079	0.001	0.001	0.024	0.001	0.003	0.006	0.072
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/15/83-02/15/83	1	0.12	0.12	0.12	0.12	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/15/83-08/07/85	11	0.77	0.827	1.78	0.18	0.212	0.46	0.204	0.5	1.06	1.676
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/83-08/07/85	11	254.	242.091	429.	111.	8004.491	89.468	114.8	163.	279.	407.4
00951	FLUORIDE, TOTAL (MG/L AS F)	02/15/83-08/07/85	11	0.46	0.489	0.69	0.22	0.017	0.132	0.256	0.44	0.63	0.68
31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	06/16/81-11/04/87	21	77.	154.167	650.	1.5	38266.483	195.618	2.	12.	238.	536.
31613	LOG FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24	06/16/81-11/04/87	21	1.886	1.646	2.813	0.176	0.755	0.869	0.301	1.079	2.375	2.729
31613	GM FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24H	GEOMETRIC MEAN =			44.293								

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

EPA Water Quality Criteria Analysis for Station: BICA0015

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	10	0	0.00	6	0	0.00	2	0	0.00	2	0	0.00			
		Other-Lo Lim.	6.5	10	0	0.00	6	0	0.00	2	0	0.00	2	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	11	0	0.00	6	0	0.00	2	0	0.00	3	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	11	0	0.00	6	0	0.00	2	0	0.00	3	0	0.00			
31613	FECAL COLIFORM, MEMBRANE FILTER, AGAR	Other-Hi Lim.	200.	21	6	0.29	13	2	0.15	4	1	0.25	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

Seasonal Analysis for Season #1: 8/10 to 4/14 - Station BICA0015

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	06/16/81-11/04/87	13	27.	126.731	650.	1.5	46680.942	216.058	1.7	7.	130.	610.
31613	LOG FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24	06/16/81-11/04/87	13	1.431	1.455	2.813	0.176	0.755	0.869	0.226	0.69	2.102	2.784
31613	GM FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24H	GEOMETRIC MEAN =			28.537								

** - Less than 9 observations ## - Computed 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: 4/15 to 6/19 - Station BICA0015

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	06/16/81-11/04/87	4	145.	139.5	256.	12.	9979.667	99.898	**	**	**	**
31613	LOG FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24	06/16/81-11/04/87	4	2.161	1.952	2.408	1.079	0.353	0.594	**	**	**	**
31613	GM FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24H	GEOMETRIC MEAN =			89.621								

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

Seasonal Analysis for Season #3: 6/20 to 8/09 - Station BICA0015

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	06/16/81-11/04/87	4	275.	258.	480.	2.	40482.667	201.203	**	**	**	**
31613	LOG FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24	06/16/81-11/04/87	4	2.43	1.961	2.681	0.301	1.244	1.115	**	**	**	**
31613	GM FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24H	GEOMETRIC MEAN =			91.37								

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

Station Inventory for Station: BICA0016

NPS Station ID: BICA0016
LAT/LON: 44.836115/-108.434726
Agency: 21WYDHSS
Date Created: / /
Location: SHOSHONE R 1 MILE W OF LOVELL
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 00R020
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080014
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI R. MAJOR BASIN
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER BASIN
ECO Region:
RF1 Index: 10080014057
RF1 Mile Point: 0.100
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 10080010026300.00
RF3 Mile Point: 0.71
Distance from RF3: 0.16
On/Off RF3:
Description:
SHOSHONE RIVER AT HIGHWAY 789 BRIDGE, 1 MILE WEST OF LOVELL, WYOMING. SAMPLED QUARTERLY (ENDED SPRING OF 1971)

Parameter Inventory for Station: BICA0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01503	ALPHA, DISSOLVED	06/29/67-05/15/71	15	2.	2.14	7.	0.3	3.165	1.779	0.48	0.8	3.	5.2
01504	ALPHA, DISSOLVED, COUNTING ERROR	06/29/67-05/15/71	15	2.	2.267	4.	1.	1.067	1.033	1.	1.	3.	4.
01505	ALPHA, SUSPENDED	06/29/67-05/15/71	14	2.	2.343	13.	0.4	9.952	3.155	0.45	0.975	2.	8.
01506	ALPHA, SUSPENDED, COUNTING ERROR	06/29/67-05/15/71	14	2.	2.071	9.	1.	4.225	2.056	1.	1.	2.	5.5
01507	ALPHA, GROSS IN SEDIMENT (PC/G OF DRY SOLIDS)	06/29/67-05/15/71	12	4.	3.758	9.	0.6	7.184	2.68	0.6	1.175	5.75	8.4
01508	ALPHA, GROSS IN SEDIMENT, COUNTING ERROR	06/29/67-05/15/71	12	4.	4.417	6.	3.	0.629	0.793	3.3	4.	5.	5.7
03503	BETA, DISSOLVED	06/29/67-05/15/71	16	8.5	8.813	15.	2.	12.963	3.6	2.7	7.	12.	13.6
03504	BETA, DISSOLVED, COUNTING ERROR	06/29/67-05/15/71	16	4.	4.	6.	3.	0.8	0.894	3.	3.	4.75	5.3
03505	BETA, SUSPENDED	06/29/67-05/15/71	16	7.5	21.225	230.	0.6	3125.023	55.902	1.58	3.	12.5	82.3
03506	BETA, SUSPENDED, COUNTING ERROR	06/29/67-05/15/71	16	3.	4.125	19.	2.	16.25	4.031	2.	3.	4.	8.5
03507	BETA, GROSS IN SEDIMENT (PC/G OF DRY SOLIDS)	06/29/67-05/15/71	12	19.	21.25	49.	4.	150.205	12.256	5.2	11.75	28.75	43.6
03508	BETA, GROSS IN SEDIMENT, COUNTING ERROR	06/29/67-05/15/71	12	11.	11.083	14.	8.	2.265	1.505	8.6	10.25	11.75	13.7

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

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

Station Inventory for Station: BICA0017

NPS Station ID: BICA0017
LAT/LON: 44.836698/-108.281698
Agency: 11NPSWRD
Date Created: 11/08/97
Location: W00218
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_138 /1151534
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080014
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080014
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE LOVELL LAKES WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0017

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/76-07/24/76	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/24/76-07/24/76	1	300.	300.	300.	300.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/24/76-07/24/76	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/24/76-07/24/76	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/24/76-07/24/76	1	0.501	0.501	0.501	0.501	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/24/76-07/24/76	1	1.46	1.46	1.46	1.46	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0017

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	1	1.00							1	1	1.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0018

NPS Station ID: BICA0018
LAT/LON: 44.837810/-108.319392
Agency: 11NPSWRD
Date Created: 11/08/97
Location: W00219
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_139 /1151535
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080014
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080014
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE LOVELL LAKES WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/76-07/24/76	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/24/76-07/24/76	1	3400.	3400.	3400.	3400.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/24/76-07/24/76	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/24/76-07/24/76	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/24/76-07/24/76	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/24/76-07/24/76	1	36.5	36.5	36.5	36.5	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: BICA0018

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	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: BICA0019

NPS Station ID: BICA0019
LAT/LON: 44.838892/-108.433337
Agency: 112WRD
Date Created: / /
Location: SHOSHONE RIVER NEAR LOVELL WYO
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 06285100
RMI-Indexes: 1021500 009490 36810 4430 5300
Within Park Boundary: No
RMI-Miles: 1149.40 1582.00 279.40 136.20 014.00
HUC: 10080014
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10080014
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10080010004201.12
RF3 Mile Point: 1.11
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/67-04/14/97	313	10.5	10.04	25.5	0.	47.486	6.891	0.	4.	16.	19.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/74-04/14/97	142	16.	14.149	40.	-26.	152.815	12.362	4.5	-0.5	25.625	32.55
00025	BAROMETRIC PRESSURE (MM OF HG)	03/27/96-04/14/97	3	665.	664.	665.	662.	3.	1.732	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/66-02/04/79	211	863.	1123.569	8670.	306.	1160975.342	1077.486	621.2	720.	1070.	1526.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-04/14/97	270	618.	1037.081	15700.	70.	2262118.313	1504.034	306.	448.	949.75	2123.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	11/12/78-09/02/80	19	65.	286.895	1800.	3.	185487.766	430.683	3.	25.	420.	800.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/07/80-12/17/81	14	50.	94.357	360.	8.	12812.093	113.191	8.	18.75	135.	335.
00080	COLOR (PLATINUM-COBALT UNITS)	10/01/66-08/11/67	23	5.	4.348	9.	0.	5.51	2.347	1.	3.	6.	8.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-04/14/97	381	805.	824.95	1990.	270.	61440.616	247.872	498.4	705.5	923.5	1150.
00300	OXYGEN, DISSOLVED MG/L	11/12/78-04/14/97	38	11.15	11.082	14.2	7.5	3.552	1.885	8.8	9.375	12.725	13.64
00400p	PH (STANDARD UNITS)	10/01/66-04/14/97	234	8.	7.982	8.7	6.5	0.092	0.303	7.6	7.8	8.2	8.3
00400p	CONVERTED PH (STANDARD UNITS)	10/01/66-04/14/97	234	8.	7.832	8.7	6.5	0.114	0.338	7.6	7.8	8.2	8.3
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-04/14/97	234	0.01	0.015	0.316	0.002	0.001	0.025	0.005	0.006	0.016	0.025
00403	PH, LAB, STANDARD UNITS SU	10/07/80-07/09/87	37	8.1	8.116	8.8	7.1	0.084	0.289	7.9	8.	8.3	8.5
00403	CONVERTED PH, LAB, STANDARD UNITS	10/07/80-07/09/87	37	8.1	7.992	8.8	7.1	0.099	0.315	7.9	8.	8.3	8.5
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/80-07/09/87	37	0.008	0.01	0.079	0.002	0.	0.013	0.003	0.005	0.01	0.013
00405	CARBON DIOXIDE (MG/L AS CO2)	04/15/72-08/23/79	42	3.4	4.102	16.	1.	7.747	2.783	1.6	2.1	5.225	6.51
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/66-09/02/80	253	174.	178.628	320.	75.	1679.242	40.979	119.2	160.	205.	227.6
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/66-08/23/79	243	212.	216.695	390.	92.	2436.147	49.357	145.6	196.	248.	277.
00445	CARBONATE ION (MG/L AS CO3)	10/01/66-08/23/79	199	0.	0.206	7.	0.	0.841	0.917	0.	0.	0.	0.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/29/87-06/30/87	2	0.09	0.09	0.12	0.06	0.002	0.042	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	04/20/81-04/20/81	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	04/15/72-04/15/72	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/87-06/30/87	2	8.6	8.6	16.	1.2	109.52	10.465	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/87-06/30/87	2	1.5	1.5	1.7	1.3	0.08	0.283	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/01/71-07/09/87	145	0.8	0.852	11.	0.01	0.834	0.913	0.36	0.5	1.	1.2
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/18/79-06/13/79	2	0.525	0.525	0.71	0.34	0.068	0.262	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/15/81-07/15/81	1	0.21	0.21	0.21	0.21	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/13/70-06/30/87	111	0.11	0.25	7.9	0.005	0.629	0.793	0.03	0.06	0.21	0.366
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/12/70-07/09/87	114	0.02	0.034	0.14	0.	0.001	0.03	0.005	0.01	0.05	0.08
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/15/81-07/15/81	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-03/21/83	274	260.	274.106	620.	75.	7709.377	87.803	165.	230.	330.	372.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-08/13/81	260	85.	93.4	320.	1.	2331.206	48.283	40.	66.25	116.	150.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-07/09/87	291	70.	72.306	160.	21.	501.337	22.391	45.	61.	86.	98.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-07/09/87	291	21.	22.694	53.	4.	64.233	8.015	13.	19.	27.	33.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-07/09/87	291	73.	72.674	160.	18.	457.49	21.389	43.4	61.	85.	96.
00931	SODIUM ADSORPTION RATIO	10/01/66-03/21/83	274	1.95	1.922	3.2	0.8	0.171	0.413	1.4	1.6	2.2	2.45
00932	SODIUM, PERCENT	10/01/66-03/21/83	273	36.	36.524	58.	19.	24.89	4.989	30.	33.	40.	42.6

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Parameter Inventory for Station: BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00933	SODIUM,PLUS POTASSIUM (MG/L)	07/22/79-02/20/80	7	87.	90.143	130.	72.	366.476	19.144	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-07/09/87	291	3.6	3.871	16.	1.3	2.215	1.488	2.4	3.1	4.3	5.38
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-07/09/87	291	10.	10.701	51.	1.	27.079	5.204	6.	8.	13.	17.
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-07/09/87	291	223.	228.77	520.	41.	5813.123	76.244	120.	190.	260.	319.6
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-07/09/87	291	0.6	0.568	1.3	0.2	0.031	0.176	0.4	0.5	0.6	0.78
00955p	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-07/09/87	291	15.	14.677	26.	1.6	5.43	2.33	12.	14.	16.	17.
01000	ARSENIC, DISSOLVED (UG/L AS AS)	11/03/70-11/03/70	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/01/66-01/11/76	201	140.	142.239	300.	20.	1967.463	44.356	80.	120.	170.	200.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	11/03/70-11/03/70	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	11/03/70-11/03/70	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	11/03/70-11/03/70	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	11/03/70-11/03/70	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/09/67-03/03/71	9	100.	107.778	260.	30.	6644.444	81.513	30.	30.	175.	260.
01046	IRON, DISSOLVED (UG/L AS FE)	12/04/73-08/06/75	21	40.	137.381	2000.	5.	183231.548	428.056	5.	25.	60.	138.
01049	LEAD, DISSOLVED (UG/L AS PB)	11/03/70-11/03/70	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	11/03/70-11/03/70	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	02/08/89-08/31/92	11 ##	0.5	1.	3.	0.5	0.65	0.806	0.5	0.5	1.	2.8
04024	PROPACHLOR,DISSOLVED,WATER,TOTAL RECOVERABLE UG/L	03/27/96-07/30/96	2 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
04028	BUTYLATE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/27/96-07/30/96	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
04029	BROMACIL, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/27/96-07/30/96	2 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
04035	SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/27/96-07/30/96	2 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
04037	PROMETON, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/27/96-07/30/96	1 ##	0.009	0.009	0.009	0.009	0.	0.	**	**	**	**
04041	CYANAZINE,DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/27/96-07/30/96	2 ##	0.006	0.006	0.009	0.002	0.	0.005	**	**	**	**
04095	FONOFOS, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/27/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/12/78-07/28/89	40	160.	323.8	3000.	5.	255100.677	505.075	25.3	50.5	420.	659.
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/12/78-07/28/89	40	2.203	2.164	3.477	0.699	0.354	0.595	1.403	1.703	2.623	2.819
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			145.912								
34253	A-BHC-ALPHA DISSUG/L	03/27/96-07/30/96	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
34653	P,P'-DDE DISSUG/L	03/27/96-07/30/96	2 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
38442	DICAMBA (BANVEL) WATER,DISSUG/L	03/27/96-07/30/96	2 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
38478	LINURON WATER,DISSUG/L	03/27/96-07/30/96	2 ##	0.009	0.009	0.009	0.009	0.	0.	**	**	**	**
38482	MCPA WATER,DISSUG/L	03/27/96-07/30/96	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
38487	MCPB WATER,DISSUG/L	03/27/96-07/30/96	2 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
38501	METHIOCARB WATER,DISSUG/L	03/27/96-07/30/96	2 ##	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
38538	PROPOXUR WATER,DISSUG/L	03/27/96-07/30/96	2 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
38711	BENTAZON WATER, DISUG/L	03/27/96-07/30/96	2 ##	0.007	0.007	0.007	0.007	0.	0.	**	**	**	**
38746	2,4-DB WATER, DISUG/L	03/27/96-07/30/96	2 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
38811	FLUOMETURON WATER, DISUG/L	03/27/96-07/30/96	2 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
38866	OXAMYL WATER, DISUG/L	03/27/96-07/30/96	2 ##	0.009	0.009	0.009	0.009	0.	0.	**	**	**	**
38933	CHLORPYRIFOS,DISSOLVED UG/L	03/27/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	03/27/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/27/96-07/30/96	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39415	METOLACHLOR, WATER, DISSOLVED UG/L	03/27/96-07/30/96	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39532	MALATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/27/96-07/30/96	2 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/27/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39572	DIAZINON IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/27/96-07/30/96	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39632	ATRAZINE DISSOLVED IN WATER PPB	03/27/96-07/30/96	2	0.006	0.006	0.008	0.004	0.	0.003	**	**	**	**
39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/27/96-07/30/96	2 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/27/96-07/30/96	2 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/27/96-07/30/96	2 ##	0.011	0.011	0.011	0.011	0.	0.	**	**	**	**
46342	ALACHLOR (LASSO), WATER, DISSOLVED UG/L	03/27/96-07/30/96	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
49235	TRICLOPYR,RECOVERABLE,WATER,FILTER,GF,0.7U UG/L	03/27/96-07/30/96	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
49236	PROPHAM, RECOVERABLE,WATER,FILTER,GF,0.7U UG/L	03/27/96-07/30/96	2 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
49260	ACETOCHLOR, RECOVERABLE, WATER, FILTERED UG/L	03/27/96-07/30/96	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
49291	PICLORAM,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
49292	ORYZALIN,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
49293	NORFLURAZON,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	2 ##	0.012	0.012	0.012	0.012	0.	0.	**	**	**	**
49294	NEBURON,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	2 ##	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
49295	NAPTHOL,1-,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	2 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
49296	METHOMYL,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	2 ##	0.009	0.009	0.009	0.009	0.	0.	**	**	**	**
49297	FENURON,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	2 ##	0.007	0.007	0.007	0.007	0.	0.	**	**	**	**
49298	ESFENVALERATE,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
49299	CRESOL,O-,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	2 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**

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Parameter Inventory for Station: BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
49300	DIURON, RECV,FILTERED, WATER, GF, 0.7U UG/L	03/27/96-07/30/96	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
49301	DINOSEB, RECV, FILTERED, WATER, GF, 0.7U UG/L	03/27/96-07/30/96	2 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
49302	DICHLORPROP,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	2 ##	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
49303	DICHLOBENIL,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
49304	DACTHAL, RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	2 ##	0.009	0.009	0.009	0.009	0.	0.	**	**	**	**
49305	CLOPYRALID,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
49306	CHLOROTHALONIL,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	2 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
49307	AMIBEN, RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	2 ##	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
49308	HYDROXYCARBOFURAN,3-,RECV,FILT,WATER,GF,0.7U UG/L	03/27/96-07/30/96	2 ##	0.007	0.007	0.007	0.007	0.	0.	**	**	**	**
49309	CARBOFURAN,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	2 ##	0.014	0.014	0.014	0.014	0.	0.	**	**	**	**
49310	CARBARYL,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	2 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
49311	BROMOXYNIL,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	2 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
49312	ALDICARB, RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	2 ##	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
49313	ALDICARB SULFONE,RECV,FILTERED,GF,0.7U UG/L	03/27/96-07/30/96	2 ##	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
49314	ALDICARB SULFOXIDE,RECV,FILTERED,GF,0.7U UG/L	03/27/96-07/30/96	2 ##	0.011	0.011	0.011	0.011	0.	0.	**	**	**	**
49315	ACIFLUORFEN,RECV,FILTERED,WATER,GF,0.7U UG/L	03/27/96-07/30/96	2 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/66-05/16/72	136	552.	533.713	867.	166.	15396.962	124.084	318.4	492.5	598.	664.6
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-03/21/83	248	522.	538.98	1060.	155.	23257.145	152.503	359.6	466.25	604.75	715.2
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-03/21/83	263	1200.01	1323.918	5780.	270.	480115.785	692.904	807.6	1000.	1440.	1782.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-03/21/83	274	0.72	0.739	1.44	0.21	0.044	0.21	0.445	0.64	0.83	0.98
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	12/06/76-08/18/82	49	88.	84.388	100.	44.	210.326	14.503	59.	77.	95.5	97.
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/07/71-04/09/80	13	48.	45.462	79.	16.	491.769	22.176	17.2	22.5	69.	75.8
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/07/71-04/09/80	13	60.	60.923	99.	26.	651.744	25.529	26.4	35.	88.	95.
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/07/71-07/07/82	14	80.5	78.929	100.	48.	326.225	18.062	51.	59.75	97.75	100.
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/07/71-07/07/82	11	90.	85.909	99.	72.	109.291	10.454	72.	73.	96.	98.4
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	10/07/71-07/07/82	11	99.	97.	100.	88.	15.6	3.95	88.8	94.	100.	100.
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	10/07/71-07/07/82	8	100.	99.5	100.	96.	2.	1.414	**	**	**	**
70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	07/07/82-07/07/82	1	100.	100.	100.	100.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/01/66-05/16/72	136	2.2	2.896	90.	0.	58.278	7.634	0.61	1.3	3.	4.02
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	04/20/81-04/20/81	1	0.16	0.16	0.16	0.16	0.	0.	**	**	**	**
71885	IRON (UG/L AS FE)	10/05/66-07/03/67	4	100.	227.5	700.	10.	105291.667	324.487	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/18/79-08/14/85	37	0.37	0.478	1.4	0.06	0.159	0.398	0.09	0.165	0.645	1.2
71900	MERCURY, TOTAL (UG/L AS HG)	11/03/70-11/03/70	1	0.	0.	0.	0.	0.	0.	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/07/71-08/31/92	134	159.5	370.993	6060.	9.	603184.263	776.649	41.5	78.5	344.5	732.5
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/07/71-08/18/82	123	346.	2443.936	81500.	2.5	109189894.73	10449.397	51.4	135.	794.	3788.
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	10/07/80-07/15/81	10	3.9	3.6	5.3	1.2	1.309	1.144	1.34	2.75	4.325	5.21
82630	METRIBUZIN (SENCOR), WATER, DISSOLVED UG/L	03/27/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82660	DIETHYLANILINE, 2, 6-,0.7UM FILT,TOT RECV,WTR UG/L	03/27/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82661	TRIFLURALINE, 0.7UM FILT,TOT RECV, WATER UG/L	03/27/96-07/30/96	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
82663	ETHALFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82664	PHORATE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
82665	TERBACIL, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	2 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
82666	LINURON, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
82667	METHYL PARATHION,0.7 UM FILT,TOT RECV,WATER UG/L	03/27/96-07/30/96	2 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
82668	EPTC, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
82669	PEBULATE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82670	TEBUTHIURON, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82671	MOLINATE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82672	ETHOPROP, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82673	BENFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
82674	CARBOFURAN, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82675	TERBUFOS, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82676	PRONAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82677	DISULFOTON, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82678	TRIALLATE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	2	0.009	0.009	0.01	0.007	0.	0.002	**	**	**	**
82679	PROPANIL, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82680	CARBARYL, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82681	THIOBENCARB, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
82682	DCPA, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
82683	PENDIMETHALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82684	NAPROPAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82685	PROPARGITE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82686	METHYL AZINPHOS, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	2 ##	0.001	0.001	0.001	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 time series plot

Parameter Inventory for Station: BICA0019

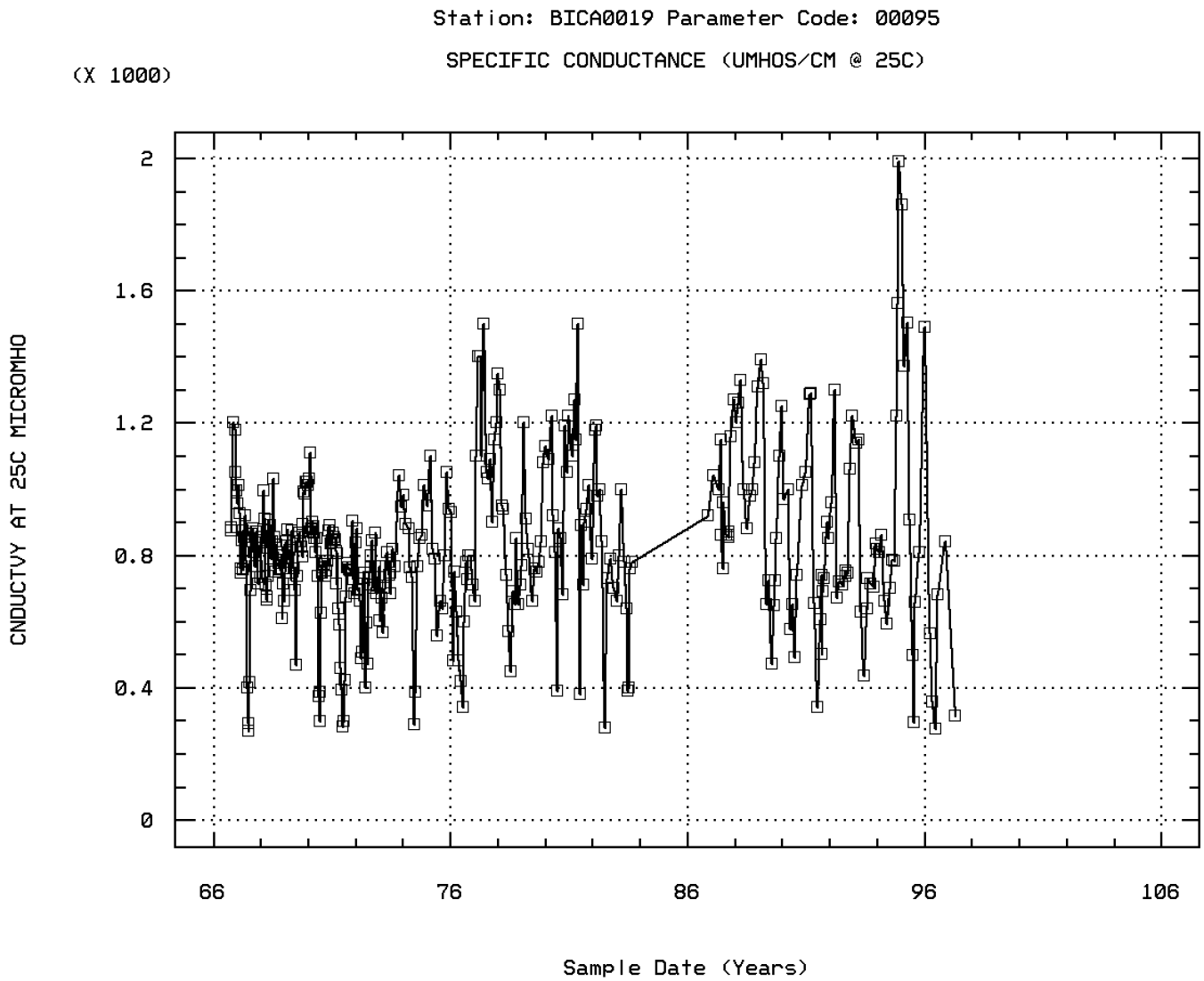
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
82687	PERMETHRIN, CIS, 0.7 UM FILT, TOT RECV, WATER UG/L	03/27/96-07/30/96	2 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**

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

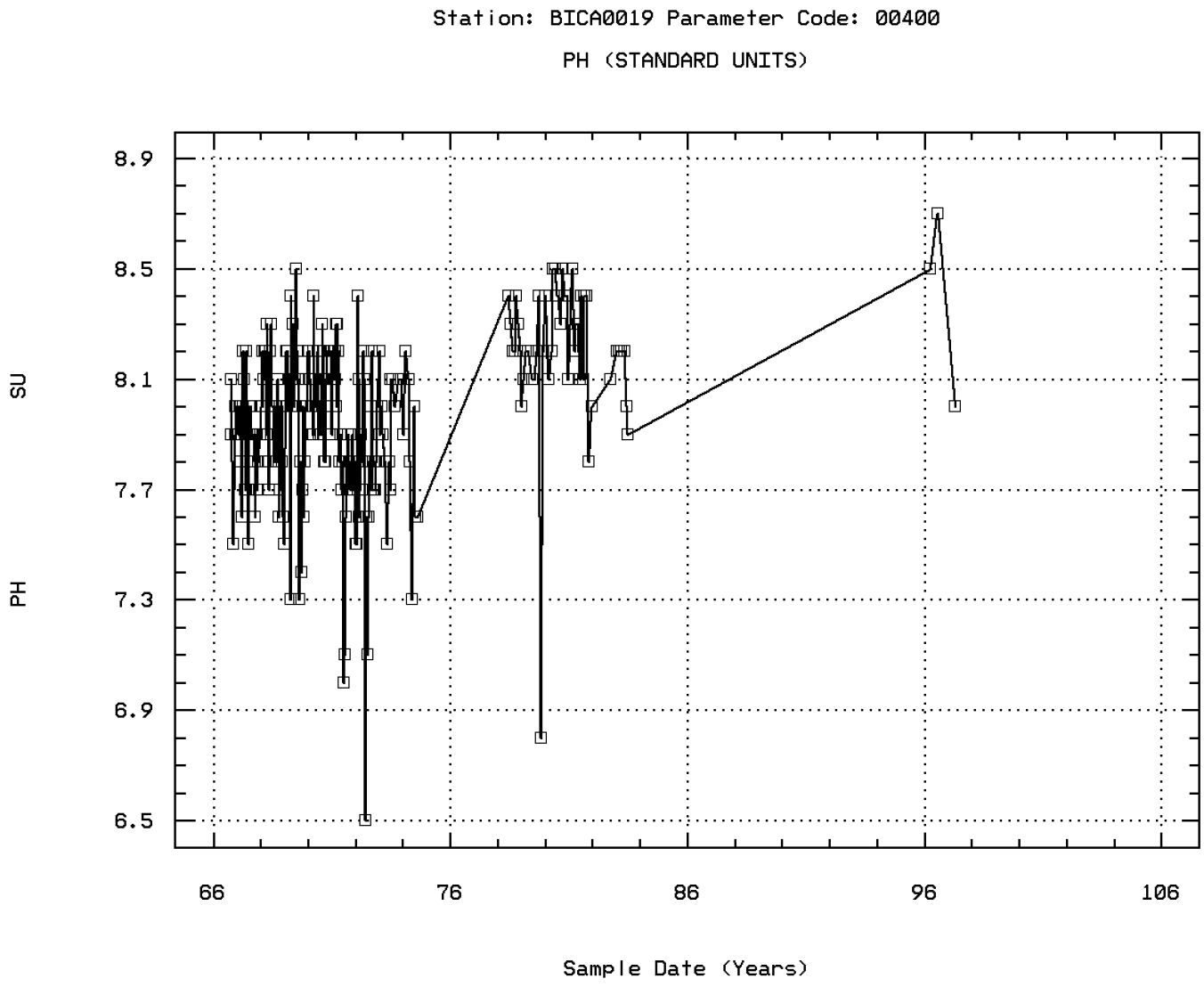
EPA Water Quality Criteria Analysis for Station: BICA0019

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	19	11	0.58	12	6	0.50	4	3	0.75	3	2	0.67			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	14	7	0.50	10	5	0.50	2	1	0.50	2	1	0.50			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	38	0	0.00	26	0	0.00	6	0	0.00	6	0	0.00			
00400	PH	Fresh Chronic	9.	234	0	0.00	157	0	0.00	42	0	0.00	35	0	0.00			
		Other-Lo Lim.	6.5	234	1	0.00	157	0	0.00	42	1	0.02	35	0	0.00			
00403	PH, LAB	Fresh Chronic	9.	37	0	0.00	26	0	0.00	5	0	0.00	6	0	0.00			
		Other-Lo Lim.	6.5	37	0	0.00	26	0	0.00	5	0	0.00	6	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	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						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00				1	0	0.00	1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	145	1	0.01	101	1	0.01	21	0	0.00	23	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	291	0	0.00	198	0	0.00	50	0	0.00	43	0	0.00			
		Drinking Water	250.	291	0	0.00	198	0	0.00	50	0	0.00	43	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	291	99	0.34	198	82	0.41	50	12	0.24	43	5	0.12			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	291	0	0.00	198	0	0.00	50	0	0.00	43	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									
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									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	11	0	0.00	7	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	50.	11	0	0.00	7	0	0.00	2	0	0.00	2	0	0.00			
04035	SIMAZINE, DISSOLVED, WATER, TOTAL RECOVE	Drinking Water	4.	2	0	0.00	1	0	0.00				1	0	0.00			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	40	18	0.45	27	9	0.33	8	4	0.50	5	5	1.00			
34653	P,P'-DDE, DISSOLVED	Fresh Acute	1050.	2	0	0.00	1	0	0.00				1	0	0.00			
38866	OXAMYL, DISSOLVED	Drinking Water	200.	2	0	0.00	1	0	0.00				1	0	0.00			
38933	CHLORPYRIFOS, DISSOLVED	Fresh Acute	0.083	2	0	0.00	1	0	0.00				1	0	0.00			
39341	GAMMA-BHC(LINDANE), DISSOLVED	Fresh Acute	2.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	0.2	2	0	0.00	1	0	0.00				1	0	0.00			
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	2.5	2	0	0.00	1	0	0.00				1	0	0.00			
39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.065	2	0	0.00	1	0	0.00				1	0	0.00			
39632	ATRAZINE DISSOLVED IN WATER	Drinking Water	3.	2	0	0.00	1	0	0.00				1	0	0.00			
39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	70.	2	0	0.00	1	0	0.00				1	0	0.00			
39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	50.	2	0	0.00	1	0	0.00				1	0	0.00			
46342	ALACHLOR (LASSO), WATER, DISSOLVED	Drinking Water	2.	2	0	0.00	1	0	0.00				1	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	136	1	0.01	93	1	0.01	26	0	0.00	17	0	0.00			
71856	NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	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



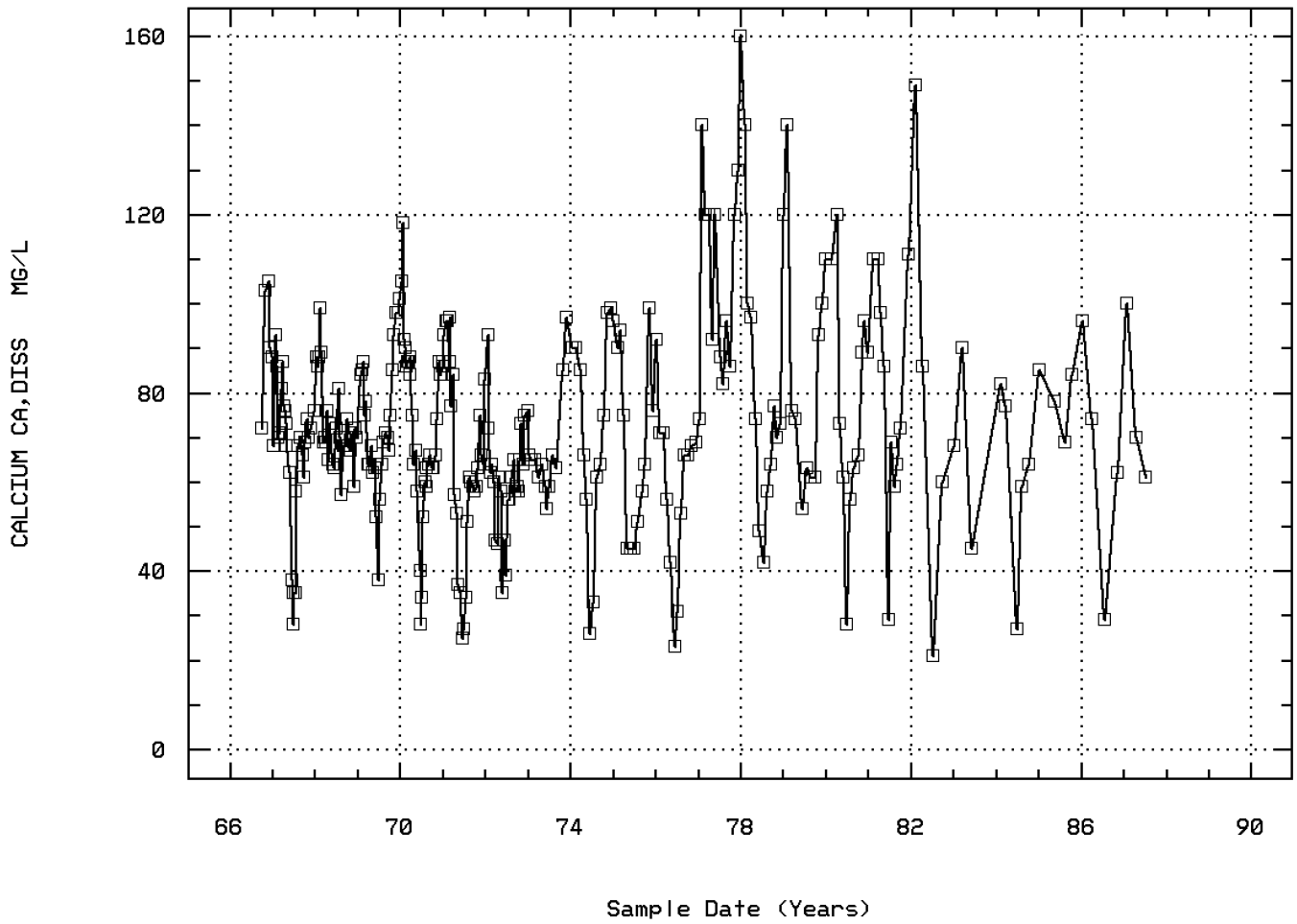
SHOSHONE RIVER NEAR LOVELL WYO



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00915

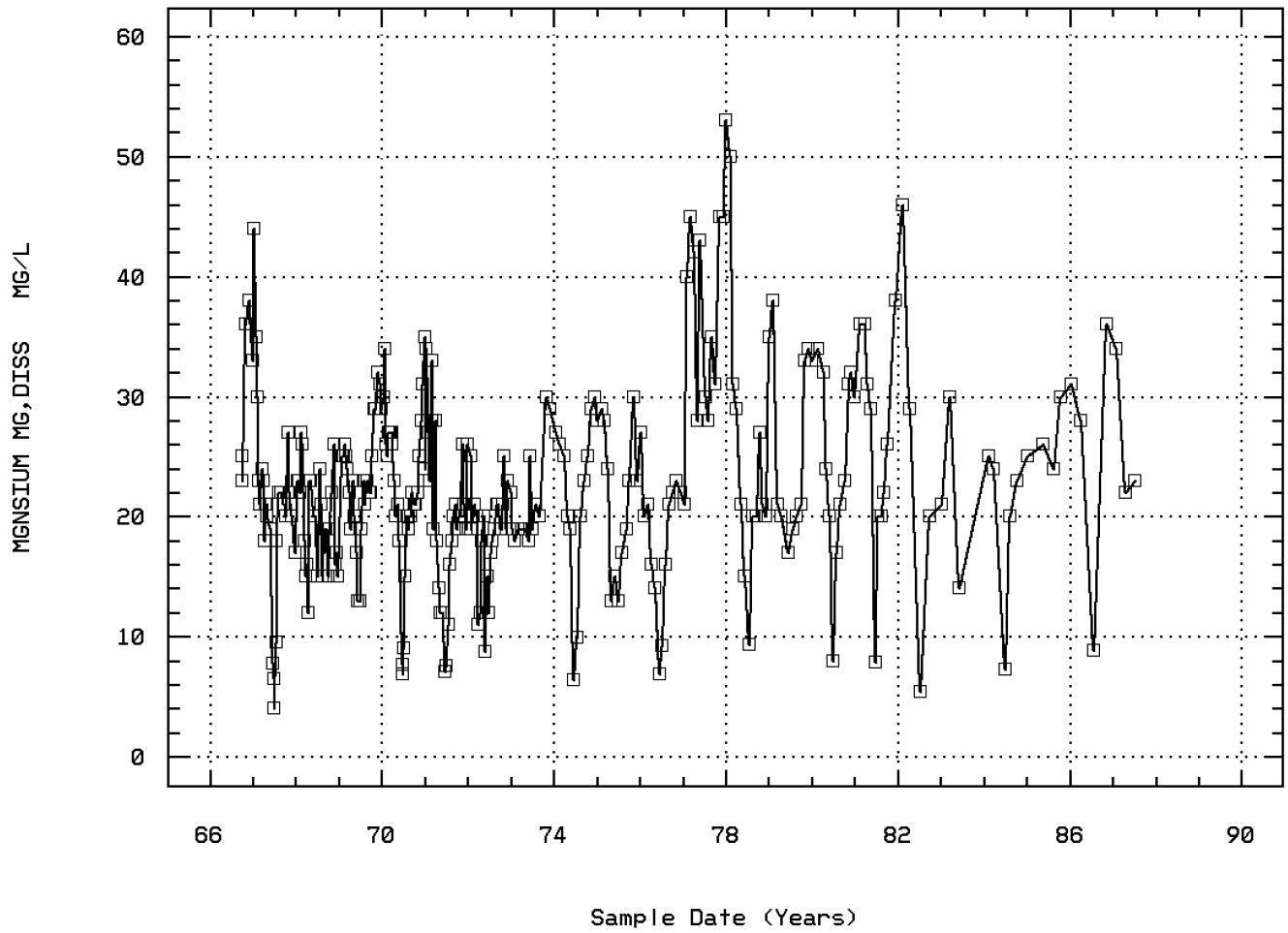
CALCIUM, DISSOLVED (MG/L AS CA)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00925

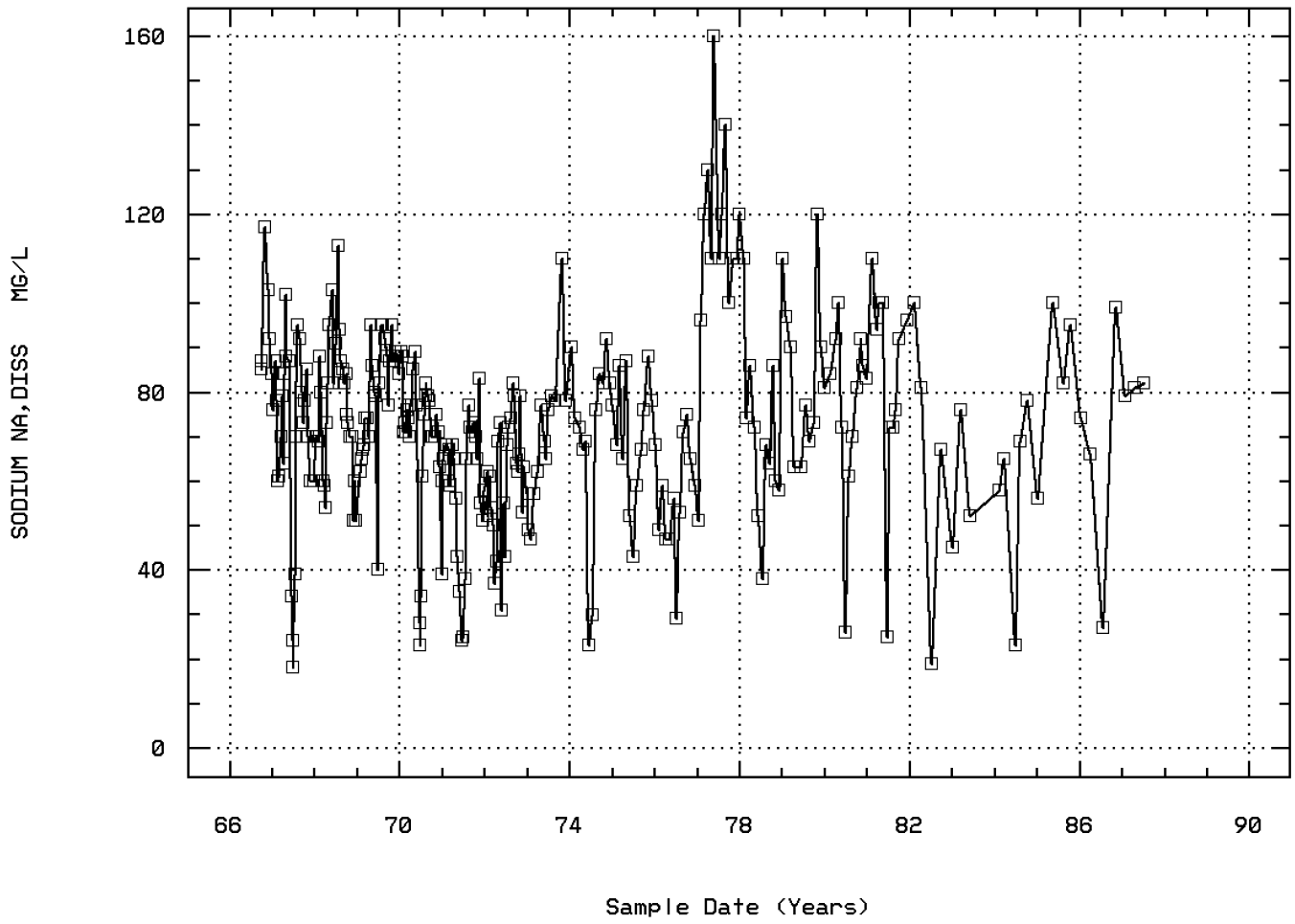
MAGNESIUM, DISSOLVED (MG/L AS MG)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00930

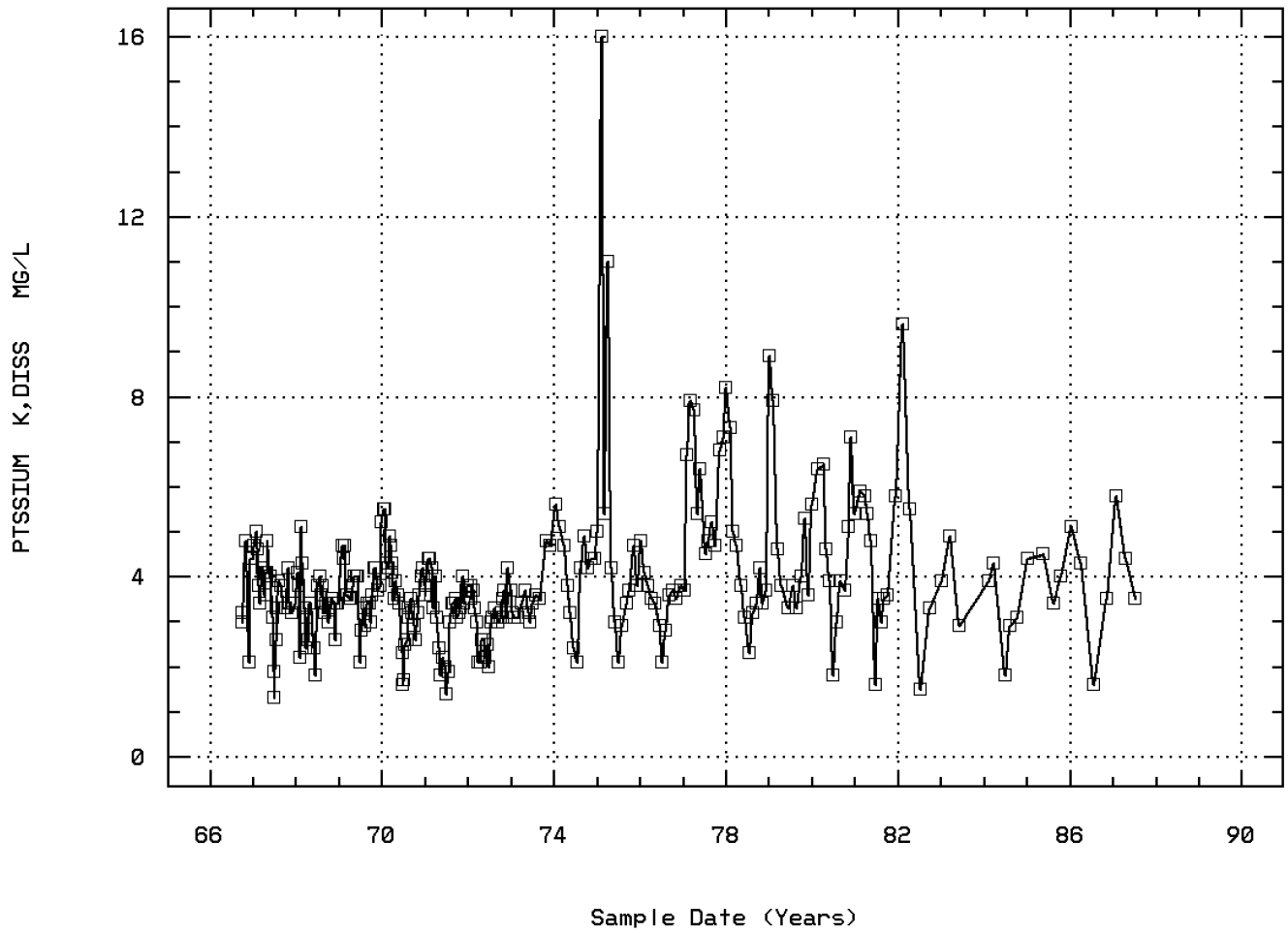
SODIUM, DISSOLVED (MG/L AS NA)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00935

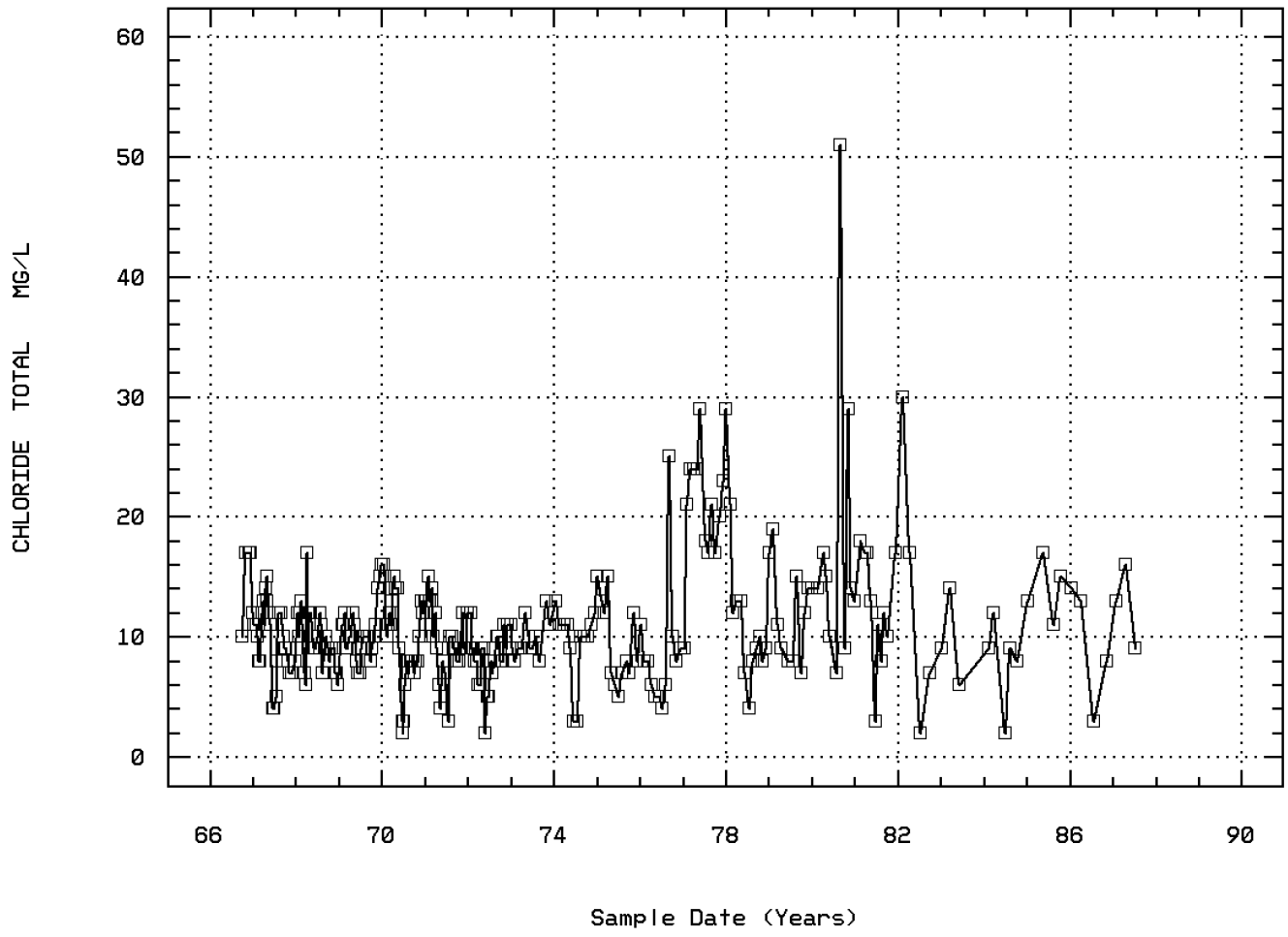
POTASSIUM, DISSOLVED (MG/L AS K)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00940

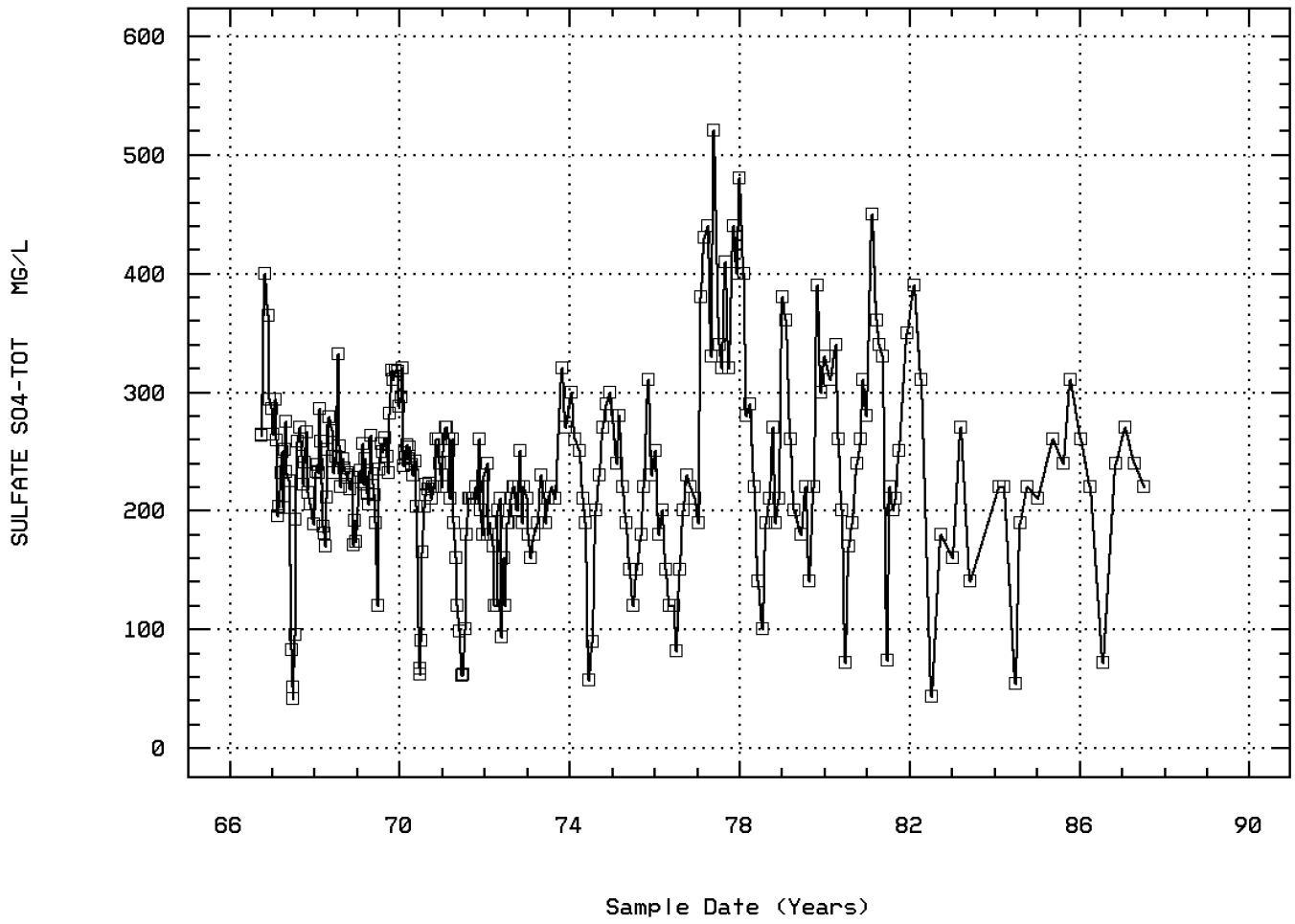
CHLORIDE,TOTAL IN WATER



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00945

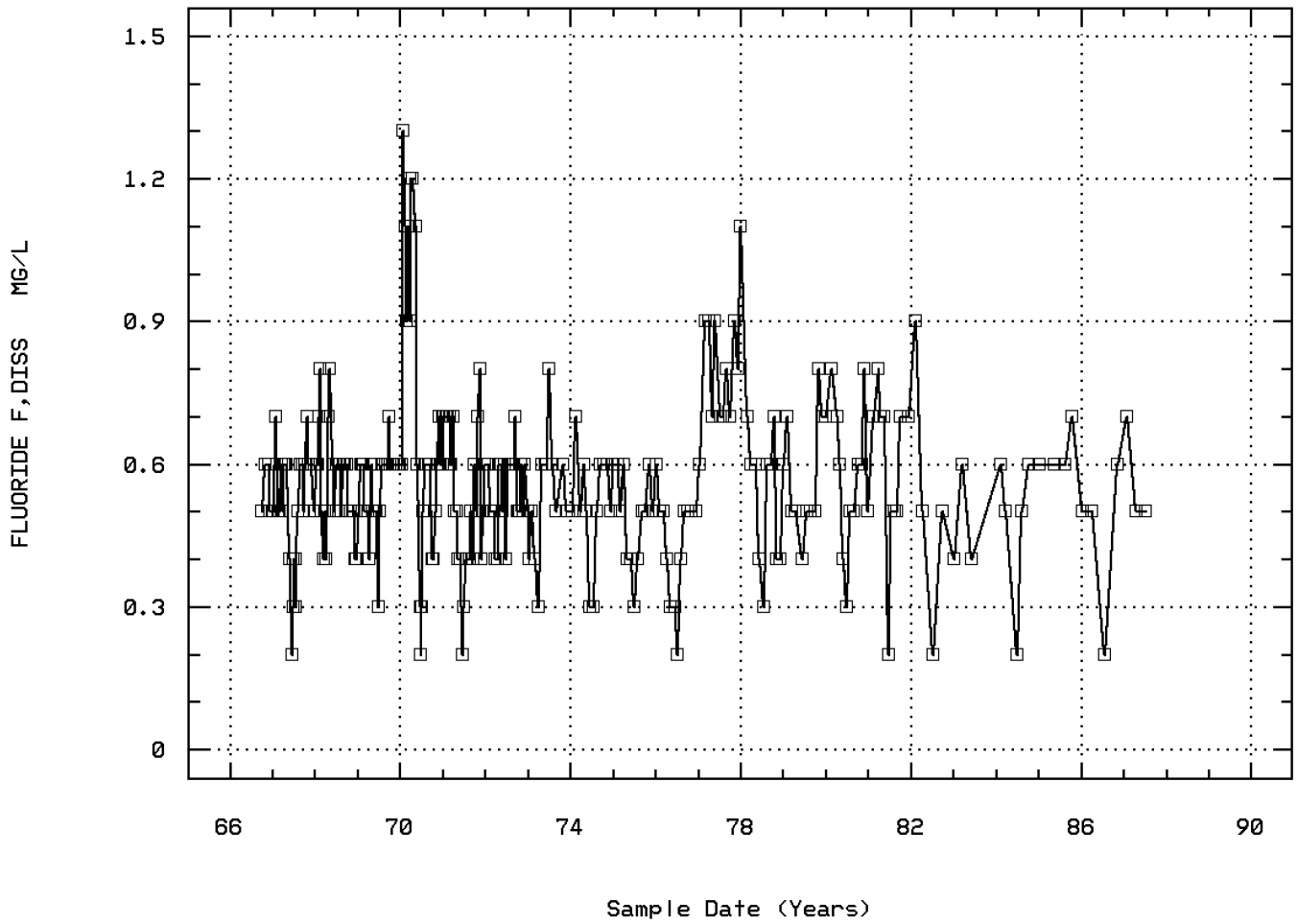
SULFATE, TOTAL (MG/L AS SO4)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00950

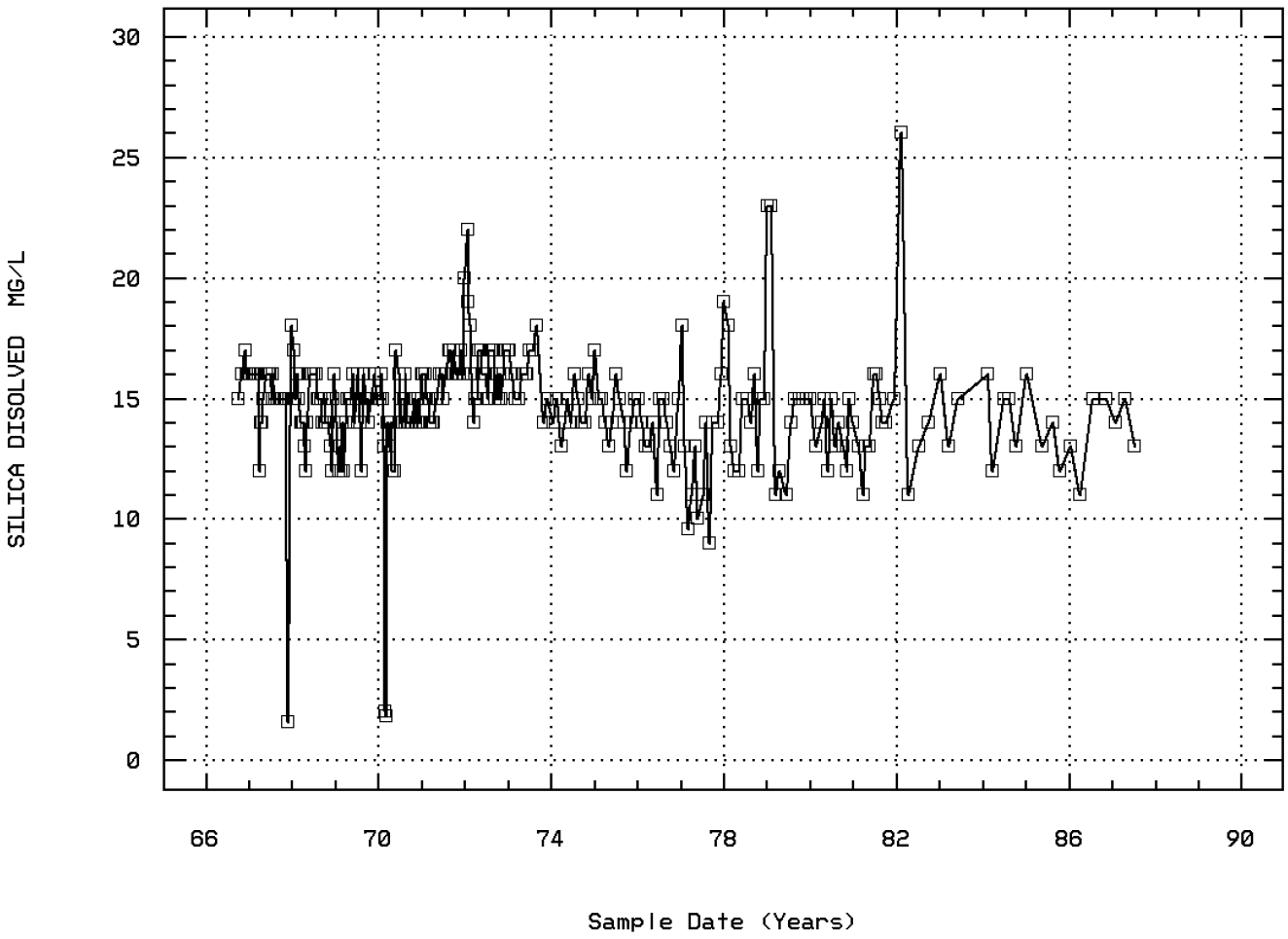
FLUORIDE, DISSOLVED (MG/L AS F)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00955

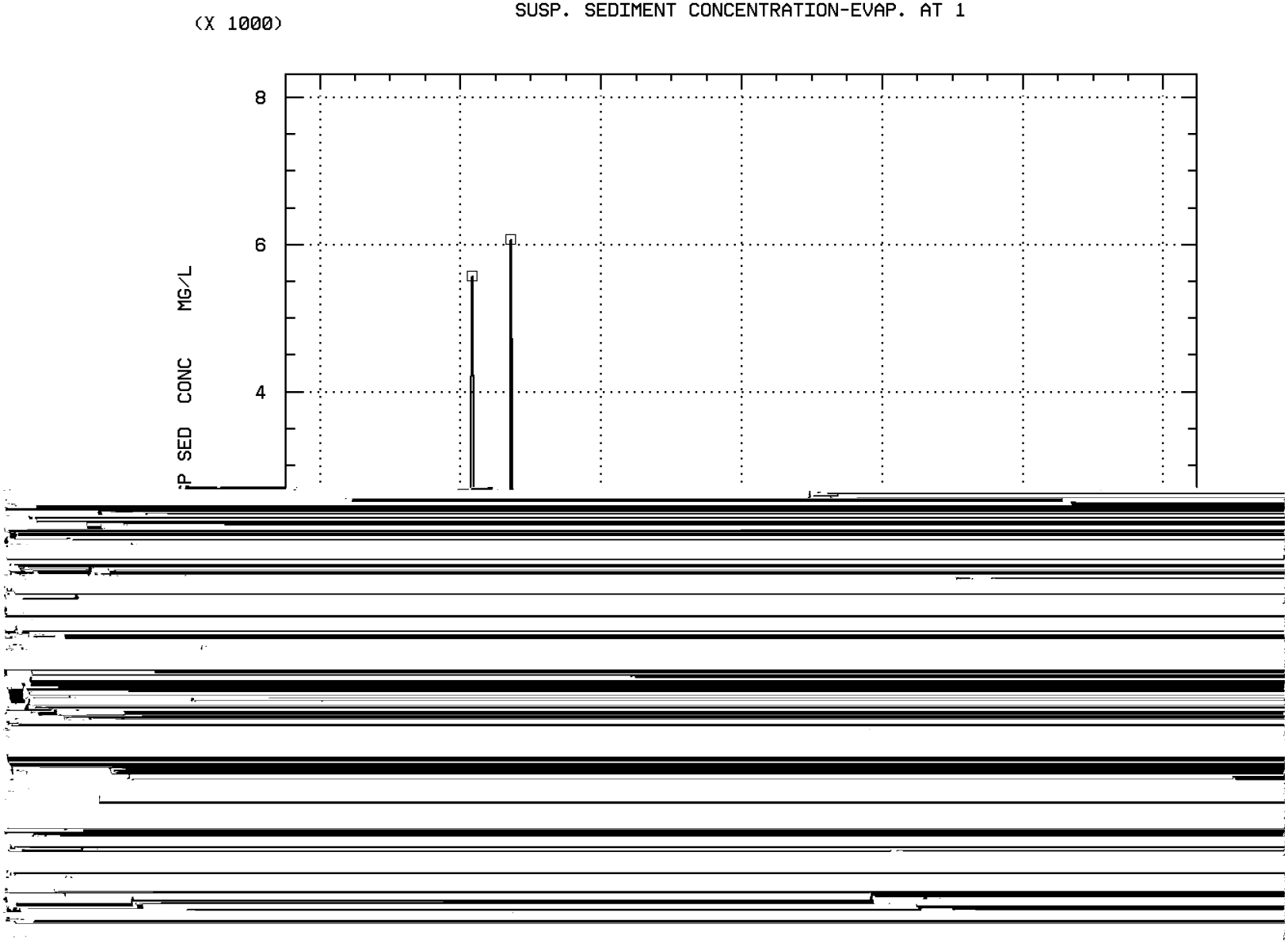
SILICA, DISSOLVED (MG/L AS SI02)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 80154

SUSP. SEDIMENT CONCENTRATION-EVAP. AT 1



Annual Analysis for 1979 - Station BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-04/14/97	16	651.	668.375	1130.	326.	50799.983	225.389	373.6	481.5	837.25	1039.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-04/14/97	10	800.	857.	1200.	660.	27223.333	164.995	669.	757.5	952.5	1188.
00400	PH (STANDARD UNITS)	10/01/66-04/14/97	10	8.15	8.03	8.4	6.8	0.198	0.445	6.92	8.075	8.2	8.38
00400	CONVERTED PH (STANDARD UNITS)	10/01/66-04/14/97	10	8.147	7.655	8.4	6.8	0.355	0.595	6.92	8.075	8.2	8.38
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-04/14/97	10	0.007	0.022	0.158	0.004	0.002	0.048	0.004	0.006	0.008	0.144
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/66-09/02/80	10	175.	201.	310.	140.	2898.889	53.841	142.	167.5	232.5	306.
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/66-08/23/79	7	210.	244.286	380.	170.	6128.571	78.285	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/01/66-08/23/79	7	0.	0.	0.	0.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/01/71-07/09/87	10	0.95	1.92	11.	0.2	10.293	3.208	0.24	0.75	1.25	10.04
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/13/70-06/30/87	9	0.18	0.302	1.4	0.06	0.174	0.417	0.06	0.12	0.255	1.4
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/12/70-07/09/87	10	0.03	0.046	0.14	0.01	0.002	0.04	0.01	0.018	0.065	0.134
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-03/21/83	10	275.	317.	510.	200.	10801.111	103.928	203.	237.5	402.5	503.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-08/13/81	10	100.	112.9	190.	59.	2717.211	52.127	59.3	62.75	170.	188.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-07/09/87	10	75.	84.2	140.	54.	814.622	28.542	54.7	61.	105.	138.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-07/09/87	10	21.	25.8	38.	17.	65.511	8.094	17.2	19.75	34.25	37.7
00930p	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-07/09/87	10	83.5	85.2	120.	63.	386.178	19.651	63.	67.5	100.25	119.
00931p	SODIUM ADSORPTION RATIO	10/01/66-03/21/83	10	2.05	2.12	2.7	1.7	0.084	0.29	1.72	1.9	2.325	2.67
00932p	SODIUM, PERCENT	10/01/66-03/21/83	10	39.5	38.1	49.	29.	32.322	5.685	29.4	33.75	41.	48.2
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-07/09/87	10	3.9	4.85	8.9	3.3	3.918	1.979	3.3	3.525	5.95	8.8
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-07/09/87	10	11.5	12.	19.	7.	17.111	4.137	7.1	8.	15.5	18.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-07/09/87	10	240.	265.	390.	140.	7805.556	88.349	144.	195.	365.	389.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-07/09/87	10	0.5	0.57	0.8	0.4	0.016	0.125	0.41	0.5	0.7	0.79
00955p	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-07/09/87	10	15.	15.4	23.	11.	18.711	4.326	11.	11.75	17.	23.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-03/21/83	10	547.	623.2	877.	424.	32170.178	179.36	425.	470.	820.75	875.5
70302p	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-03/21/83	10	1105.	1195.5	2030.	547.	200634.5	447.922	567.3	936.	1545.	2004.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-03/21/83	10	0.745	0.848	1.19	0.58	0.059	0.242	0.581	0.643	1.118	1.188
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/07/71-08/31/92	11	148.	214.636	784.	42.	44120.855	210.05	50.	94.	208.	705.6
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/07/71-08/18/82	11	213.	413.364	1610.	51.	234280.455	484.025	57.4	143.	403.	1500.

** - Less than 9 observations ## - Computed with 50% or 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 BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/67-04/14/97	14	10.	9.357	20.	0.	56.055	7.487	0.	1.5	15.25	20.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/74-04/14/97	3	12.	11.5	21.	1.5	95.25	9.76	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-04/14/97	13	534.	778.308	2960.	346.	461222.064	679.133	395.6	492.5	850.	2159.2
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-04/14/97	12	985.	952.5	1220.	390.	62475.	249.95	477.	820.	1175.	1220.
00400	PH (STANDARD UNITS)	10/01/66-04/14/97	12	8.4	8.35	8.5	8.1	0.021	0.145	8.1	8.225	8.475	8.5
00400	CONVERTED PH (STANDARD UNITS)	10/01/66-04/14/97	12	8.4	8.326	8.5	8.1	0.022	0.147	8.1	8.225	8.475	8.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-04/14/97	12	0.004	0.005	0.008	0.003	0.	0.002	0.003	0.003	0.006	0.008
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/66-09/02/80	8	175.	187.875	250.	83.	3501.839	59.176	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/01/71-07/09/87	12	1.	0.894	1.4	0.03	0.131	0.361	0.171	0.725	1.15	1.34
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/13/70-06/30/87	12	0.085	0.126	0.35	0.02	0.013	0.112	0.023	0.05	0.163	0.347
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/12/70-07/09/87	12	0.035	0.042	0.11	0.	0.001	0.028	0.006	0.023	0.058	0.095
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-03/21/83	12	315.	303.333	430.	100.	9951.515	99.757	133.	232.5	400.	424.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-08/13/81	12	105.	104.917	180.	20.	2391.902	48.907	29.	71.	152.5	174.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-07/09/87	12	81.	80.083	120.	28.	726.629	26.956	36.4	61.5	106.5	117.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-07/09/87	12	27.	25.417	34.	8.	63.72	7.982	10.7	20.25	32.	33.7
00930p	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-07/09/87	12	82.	77.333	100.	26.	373.333	19.322	36.5	70.5	90.5	97.6
00931p	SODIUM ADSORPTION RATIO	10/01/66-03/21/83	12	1.9	1.917	2.6	1.1	0.122	0.349	1.28	1.8	2.075	2.48
00932p	SODIUM, PERCENT	10/01/66-03/21/83	12	37.	36.333	43.	30.	15.152	3.892	30.3	33.25	39.5	42.1
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-07/09/87	12	4.85	4.75	7.1	1.8	2.446	1.564	2.16	3.75	6.2	6.92
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-07/09/87	12	14.	16.167	51.	1.	164.333	12.819	2.8	9.25	16.5	44.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-07/09/87	12	260.	246.833	340.	72.	6087.606	78.023	101.4	192.5	310.	337.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-07/09/87	12	0.6	0.583	0.8	0.3	0.023	0.153	0.33	0.5	0.7	0.8
00955p	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-07/09/87	12	14.	13.75	15.	12.	1.295	1.138	12.	13.	15.	15.

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Annual Analysis for 1980 - Station BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-03/21/83	12	631.	588.833	776.	203.	26957.788	164.188	270.5	489.25	723.	766.7
70302p	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-03/21/83	12	895.	969.25	1620.	567.	69400.75	263.44	613.5	852.25	1100.	1488.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-03/21/83	12	0.86	0.802	1.06	0.28	0.05	0.223	0.37	0.665	0.985	1.045
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/07/71-08/31/92	13	158.	299.	1120.	41.	104640.833	323.482	44.2	69.5	431.	977.6
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/07/71-08/18/82	13	318.	833.923	6110.	62.	2680767.077	1637.305	62.4	128.5	650.5	4298.

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Annual Analysis for 1981 - Station BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/67-04/14/97	12	13.	11.167	22.	0.	38.742	6.224	0.75	6.375	15.	20.2
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/74-04/14/97	12	17.	17.292	29.	-5.	98.294	9.914	1.3	14.25	25.625	28.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-04/14/97	12	477.	1954.75	15700.	256.	19494495.659	4415.257	276.4	351.25	572.	12022.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-04/14/97	11	940.	967.273	1500.	380.	88201.818	296.988	446.	790.	1150.	1454.
00400	PH (STANDARD UNITS)	10/01/66-04/14/97	11	8.3	8.227	8.5	7.8	0.044	0.21	7.84	8.1	8.4	8.48
00400	CONVERTED PH (STANDARD UNITS)	10/01/66-04/14/97	11	8.3	8.177	8.5	7.8	0.047	0.217	7.84	8.1	8.4	8.48
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-04/14/97	11	0.005	0.007	0.016	0.003	0.	0.004	0.003	0.004	0.008	0.015
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/01/71-07/09/87	10	1.	0.9	1.2	0.4	0.089	0.298	0.41	0.575	1.2	1.2
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/13/70-06/30/87	10	0.125	0.193	0.47	0.005	0.032	0.179	0.007	0.058	0.413	0.468
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/12/70-07/09/87	10	0.04	0.045	0.09	0.01	0.001	0.027	0.011	0.02	0.065	0.089
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-03/21/83	10	310.	310.	430.	110.	10733.333	103.602	122.	245.	420.	429.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-08/13/81	2	175.	175.	300.	50.	31250.	176.777	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-07/09/87	10	79.	80.8	111.	29.	733.067	27.075	32.	62.75	110.	110.9
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-07/09/87	10	27.5	26.59	38.	7.9	87.792	9.37	9.11	20.	36.	37.8
00930p	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-07/09/87	10	93.	83.7	110.	25.	592.011	24.331	29.7	72.	100.	109.
00931p	SODIUM ADSORPTION RATIO	10/01/66-03/21/83	10	2.25	2.14	2.6	1.1	0.165	0.406	1.19	2.	2.325	2.58
00932p	SODIUM, PERCENT	10/01/66-03/21/83	10	37.	36.7	41.	32.	10.456	3.234	32.	33.5	39.25	40.9
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-07/09/87	10	4.2	4.29	5.9	1.6	2.141	1.463	1.74	3.375	5.8	5.89
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-07/09/87	10	12.5	12.6	18.	3.	23.378	4.835	3.5	9.5	17.	17.9
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-07/09/87	10	290.	278.4	450.	74.	11612.267	107.76	86.6	207.5	352.5	441.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-07/09/87	10	0.7	0.6	0.8	0.2	0.031	0.176	0.23	0.5	0.7	0.79
00955p	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-07/09/87	10	14.	14.	16.	11.	2.444	1.563	11.2	13.	15.25	16.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-03/21/83	10	653.5	613.9	820.	213.	34548.767	185.873	240.7	508.	767.75	816.2
70302p	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-03/21/83	10	720.5	848.	1980.	503.	181652.667	426.207	504.	597.	923.25	1875.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-03/21/83	10	0.89	0.836	1.12	0.29	0.064	0.253	0.328	0.693	1.045	1.114
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/07/71-08/31/92	11	113.	220.364	628.	32.	47165.855	217.177	37.4	66.	431.	615.4
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/07/71-08/18/82	11	113.	550.455	4000.	50.	1348749.073	1161.357	56.6	85.	549.	3328.2

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Annual Analysis for 1982 - Station BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/67-04/14/97	9	11.5	9.111	17.	0.	40.236	6.343	0.	2.25	14.75	17.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/74-04/14/97	9	18.5	13.111	25.5	-13.	146.861	12.119	4.5	10.5	24.	-13.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-04/14/97	8	738.	1406.75	5740.	288.	3221200.786	1794.77	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-04/14/97	9	840.	854.444	1190.	280.	78652.778	280.451	280.	715.	1090.	1190.
00400	PH (STANDARD UNITS)	10/01/66-04/14/97	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/01/66-04/14/97	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-04/14/97	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/01/71-07/09/87	4	0.55	0.6	1.1	0.2	0.18	0.424	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/13/70-06/30/87	4	0.055	0.109	0.32	0.005	0.021	0.143	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/12/70-07/09/87	4 ##	0.023	0.043	0.12	0.005	0.003	0.054	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-03/21/83	4	280.	298.75	560.	75.	41339.583	203.321	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-07/09/87	4	73.	79.	149.	21.	2891.333	53.771	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-07/09/87	4	24.5	25.1	46.	5.4	288.707	16.991	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-07/09/87	4	74.	66.75	100.	19.	1196.25	34.587	**	**	**	**
00931p	SODIUM ADSORPTION RATIO	10/01/66-03/21/83	4	2.05	1.8	2.1	1.	0.287	0.535	**	**	**	**
00932p	SODIUM, PERCENT	10/01/66-03/21/83	4	34.5	33.75	38.	28.	17.583	4.193	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-07/09/87	4	4.4	4.975	9.6	1.5	12.183	3.49	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-07/09/87	4	12.	14.	30.	2.	152.667	12.356	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-07/09/87	4	245.	230.75	390.	43.	23155.583	152.17	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-07/09/87	4	0.5	0.525	0.9	0.2	0.083	0.287	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-07/09/87	4	13.5	16.	26.	11.	46.	6.782	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-03/21/83	4	563.5	565.25	979.	155.	119504.25	345.694	**	**	**	**
70302p	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-03/21/83	4	1745.	1601.	2400.	514.	670897.333	819.083	**	**	**	**
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-03/21/83	4	0.765	0.768	1.33	0.21	0.221	0.47	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/07/71-08/31/92	7	91.	204.429	792.	22.	74733.619	273.375	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/07/71-08/18/82	7	143.	1916.714	12300.	25.	20991037.238	4581.598	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/67-04/14/97	9	16.	11.611	20.	1.	49.174	7.012	1.	4.	16.75	20.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/74-04/14/97	9	22.5	17.833	31.5	2.	126.875	11.264	2.	5.75	27.75	31.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-04/14/97	9	884.	1418.	4660.	443.	1891298.25	1375.245	443.	504.	1980.	4660.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-04/14/97	9	760.	690.	1000.	390.	38350.	195.832	390.	520.	790.	1000.
00400	PH (STANDARD UNITS)	10/01/66-04/14/97	6	8.2	8.117	8.2	7.9	0.018	0.133	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/01/66-04/14/97	6	8.2	8.098	8.2	7.9	0.018	0.134	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-04/14/97	6	0.006	0.008	0.013	0.006	0.	0.003	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/01/71-07/09/87	3	0.5	0.533	0.8	0.3	0.063	0.252	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/13/70-06/30/87	3	0.1	0.173	0.39	0.03	0.036	0.191	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/12/70-07/09/87	3	0.04	0.037	0.06	0.01	0.001	0.025	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-03/21/83	2	305.	305.	350.	260.	4050.	63.64	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-07/09/87	3	68.	67.667	90.	45.	506.333	22.502	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-07/09/87	3	21.	21.667	30.	14.	64.333	8.021	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-07/09/87	3	52.	57.667	76.	45.	264.333	16.258	**	**	**	**
00931p	SODIUM ADSORPTION RATIO	10/01/66-03/21/83	2	1.55	1.55	1.9	1.2	0.245	0.495	**	**	**	**
00932p	SODIUM, PERCENT	10/01/66-03/21/83	2	29.5	29.5	32.	27.	12.5	3.536	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-07/09/87	3	3.9	3.9	4.9	2.9	1.	1.	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-07/09/87	3	9.	9.667	14.	6.	16.333	4.041	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-07/09/87	3	160.	190.	270.	140.	4900.	70.	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-07/09/87	3	0.4	0.467	0.6	0.4	0.013	0.115	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-07/09/87	3	15.	14.667	16.	13.	2.333	1.528	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-03/21/83	2	533.5	533.5	636.	431.	21012.5	144.957	**	**	**	**
70302p	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-03/21/83	2	931.	931.	1100.	762.	57122.	239.002	**	**	**	**
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-03/21/83	2	0.725	0.725	0.86	0.59	0.036	0.191	**	**	**	**

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Annual Analysis for 1984 - Station BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/67-04/14/97	5	8.	10.5	20.	0.	62.25	7.89	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/74-04/14/97	5	14.	17.7	35.	4.	147.95	12.163	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-04/14/97	5	634.	1368.4	4350.	590.	2778918.8	1667.009	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/01/71-07/09/87	5	0.5	0.58	1.1	0.2	0.137	0.37	**	**	**	**

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Annual Analysis for 1984 - Station BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/13/70-06/30/87	5	0.12	0.142	0.25	0.04	0.01	0.099	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/12/70-07/09/87	5	0.03	0.024	0.04	0.01	0.	0.013	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-07/09/87	5	64.	61.8	82.	27.	465.7	21.58	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-07/09/87	5	23.	19.86	25.	7.3	52.798	7.266	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-07/09/87	5	65.	58.6	78.	23.	448.3	21.173	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-07/09/87	5	3.1	3.2	4.3	1.8	0.94	0.97	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-07/09/87	5	9.	8.	12.	2.	13.5	3.674	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-07/09/87	5	220.	180.8	220.	54.	5193.2	72.064	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-07/09/87	5	0.5	0.48	0.6	0.2	0.027	0.164	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-07/09/87	5	15.	14.2	16.	12.	2.7	1.643	**	**	**	**

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Annual Analysis for 1985 - Station BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/67-04/14/97	4	12.	10.5	17.5	0.5	61.833	7.863	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/74-04/14/97	4	16.5	13.125	23.5	-4.	141.396	11.891	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-04/14/97	4	520.5	483.75	611.	283.	19732.917	140.474	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/01/71-07/09/87	4	1.25	1.2	1.6	0.7	0.14	0.374	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/13/70-06/30/87	4	0.045	0.064	0.16	0.005	0.005	0.068	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/12/70-07/09/87	4	0.03	0.039	0.09	0.005	0.001	0.037	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-07/09/87	4	81.	79.	85.	69.	54.	7.348	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-07/09/87	4	25.5	26.25	30.	24.	6.917	2.63	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-07/09/87	4	88.5	83.25	100.	56.	387.583	19.687	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-07/09/87	4	4.2	4.075	4.5	3.4	0.249	0.499	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-07/09/87	4	14.	14.	17.	11.	6.667	2.582	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-07/09/87	4	250.	255.	310.	210.	1766.667	42.032	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-07/09/87	4	0.6	0.625	0.7	0.6	0.002	0.05	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-07/09/87	4	13.5	13.75	16.	12.	2.917	1.708	**	**	**	**

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Annual Analysis for 1986 - Station BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/67-04/14/97	4	4.	5.25	13.	0.	40.917	6.397	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/74-04/14/97	4	9.25	12.625	28.	4.	112.229	10.594	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-04/14/97	4	568.5	1050.25	2530.	534.	973454.917	986.638	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-04/14/97	1	920.	920.	920.	920.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/01/71-07/09/87	4	0.7	0.725	1.1	0.4	0.109	0.33	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/13/70-06/30/87	3	0.08	0.147	0.3	0.06	0.018	0.133	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/12/70-07/09/87	2	0.03	0.03	0.05	0.01	0.001	0.028	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-07/09/87	4	68.	65.25	96.	29.	782.25	27.969	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-07/09/87	4	29.5	25.95	36.	8.8	141.61	11.9	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-07/09/87	4	70.	66.5	99.	27.	891.	29.85	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-07/09/87	4	3.9	3.625	5.1	1.6	2.249	1.5	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-07/09/87	4	10.5	9.5	14.	3.	25.667	5.066	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-07/09/87	4	230.	198.	260.	72.	7322.667	85.573	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-07/09/87	4	0.5	0.45	0.6	0.2	0.03	0.173	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-07/09/87	4	14.	13.5	15.	11.	3.667	1.915	**	**	**	**

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Annual Analysis for 1987 - Station BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/67-04/14/97	12	12.5	11.667	21.	0.	40.288	6.347	0.3	9.	16.5	20.25
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/74-04/14/97	12	17.	15.583	28.5	-3.	87.765	9.368	4.25	0.75	20.75	28.35
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-04/14/97	12	399.	747.083	3860.	283.	1029979.356	1014.879	286.	310.25	532.5	3077.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-04/14/97	12	915.	970.417	1270.	760.	24365.72	156.095	788.5	860.	1122.5	1237.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/01/71-07/09/87	3	1.	1.	1.5	0.5	0.25	0.5	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/13/70-06/30/87	2	3.985	3.985	7.9	0.07	30.654	5.537	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/12/70-07/09/87	3	0.03	0.037	0.06	0.02	0.	0.021	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-07/09/87	3	70.	77.	100.	61.	417.	20.421	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-07/09/87	3	23.	26.333	34.	22.	44.333	6.658	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-07/09/87	3	81.	80.667	82.	79.	2.333	1.528	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-07/09/87	3	4.4	4.567	5.8	3.5	1.343	1.159	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-07/09/87	3	13.	12.667	16.	9.	12.333	3.512	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-07/09/87	3	240.	243.333	270.	220.	633.333	25.166	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-07/09/87	3	0.5	0.567	0.7	0.5	0.013	0.115	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-07/09/87	3	14.	14.	15.	13.	1.	1.	**	**	**	**

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Annual Analysis for 1988 - Station BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/67-04/14/97	9	11.5	10.	25.5	0.	76.938	8.771	0.	1.5	16.	25.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/74-04/14/97	9	8.	13.	34.	3.	139.063	11.792	3.	3.5	23.25	34.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-04/14/97	9	306.	312.667	469.	177.	10190.5	100.948	177.	228.5	397.5	469.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-04/14/97	9	1080.	1115.556	1330.	880.	26702.778	163.41	880.	990.	1285.	1330.

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Annual Analysis for 1989 - Station BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/67-04/14/97	10	8.25	7.85	17.	0.	49.614	7.044	0.	0.	14.25	16.95
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/74-04/14/97	10	16.5	7.5	30.	-13.	232.778	15.257	8.15	-4.75	19.25	-13.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-04/14/97	10	549.	666.5	1620.	223.	179148.278	423.259	226.7	305.75	926.75	1559.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-04/14/97	10	787.5	912.7	1390.	470.	105838.456	325.328	487.7	649.25	1267.5	1383.

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Annual Analysis for 1990 - Station BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/67-04/14/97	8	10.	9.75	18.	0.	55.857	7.474	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/74-04/14/97	8	24.	8.813	28.	-26.	350.71	18.727	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-04/14/97	8	568.	744.125	1900.	223.	282179.839	531.206	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-04/14/97	8	855.	810.75	1050.	490.	49564.5	222.631	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/07/71-08/31/92	4	168.5	243.75	573.	65.	50620.917	224.991	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/67-04/14/97	11	10.	11.091	22.	1.	53.991	7.348	1.5	4.	16.5	21.8
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/74-04/14/97	10	18.	18.05	37.	4.	150.914	12.285	4.	4.375	28.25	36.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-04/14/97	11	639.	1145.455	4270.	279.	1632382.473	1277.647	283.2	560.	1000.	4016.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-04/14/97	11	730.	780.636	1290.	342.	86311.455	293.788	373.6	605.	900.	1289.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/07/71-08/31/92	4	95.	131.	286.	48.	11339.333	106.486	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/67-04/14/97	10	11.	10.45	22.	0.	45.803	6.768	0.4	4.75	15.375	21.45
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/74-04/14/97	10	15.5	15.4	33.	-3.	130.322	11.416	4.85	8.	24.875	32.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-04/14/97	10	555.5	567.5	780.	298.	22876.5	151.25	308.8	452.5	693.75	773.7
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-04/14/97	10	749.5	887.4	1300.	670.	53775.378	231.895	674.	717.5	1100.	1292.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/07/71-08/31/92	3	100.	229.667	566.	23.	86322.333	293.807	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/67-04/14/97	9	11.5	10.611	20.	0.	74.799	8.649	0.	2.25	20.	20.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/74-04/14/97	9	15.	13.	30.	-8.	202.25	14.221	3.	1.	26.5	30.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-04/14/97	9	640.	644.111	977.	311.	46482.111	215.597	311.	494.	794.5	977.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-04/14/97	9	715.	775.111	1150.	434.	55540.611	235.671	434.	633.5	987.5	1150.

** - Less than 9 observations ## - Computed with 50% or 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 BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/67-04/14/97	11	8.9	8.809	19.1	0.	51.599	7.183	0.	1.5	15.3	19.04
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/74-04/14/97	11	15.	11.382	28.	-10.	117.162	10.824	3.3	9.8	20.2	-2.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-04/14/97	11	551.	518.455	735.	333.	12440.873	111.539	345.2	438.	570.	710.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-04/14/97	11	810.	980.545	1990.	593.	188737.273	434.439	607.	702.	1220.	1904.

** - Less than 9 observations ## - Computed with 50% or 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 BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/67-04/14/97	8	11.75	11.463	20.8	0.	56.571	7.521	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/74-04/14/97	8	16.75	20.825	40.	-0.6	203.082	14.251	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-04/14/97	8	557.5	1104.125	5070.	212.	2630446.125	1621.865	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-04/14/97	8	857.5	987.375	1860.	296.	290777.696	539.238	**	**	**	**

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

Annual Analysis for 1996 - Station BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/67-04/14/97	6	5.65	8.2	21.	0.5	76.616	8.753	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/74-04/14/97	6	-5.75	11.883	38.	-6.5	314.198	17.726	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-04/14/97	6	1002.	1498.833	3060.	457.	1396456.167	1181.717	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-04/14/97	6	622.	701.333	1490.	276.	191959.467	438.132	**	**	**	**
00400	PH (STANDARD UNITS)	10/01/66-04/14/97	2	8.6	8.6	8.7	8.5	0.02	0.141	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/01/66-04/14/97	2	8.589	8.589	8.7	8.5	0.02	0.142	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-04/14/97	2	0.003	0.003	0.003	0.002	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

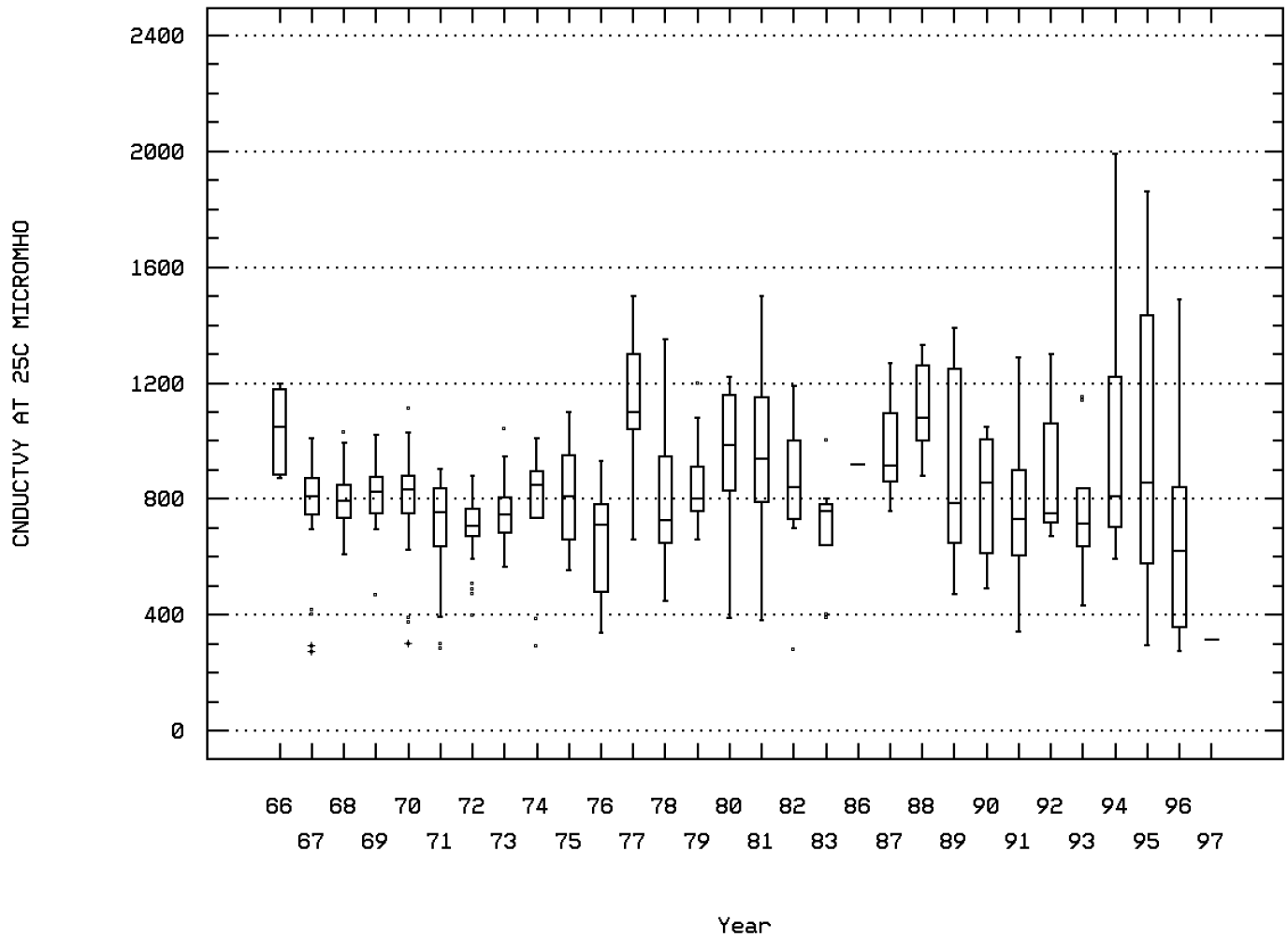
Annual Analysis for 1997 - Station BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/67-04/14/97	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/74-04/14/97	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-04/14/97	1	3800.	3800.	3800.	3800.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-04/14/97	1	315.	315.	315.	315.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/01/66-04/14/97	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/01/66-04/14/97	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-04/14/97	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 box-and-whisker plot

Station: BICA0019 Parameter Code: 00095

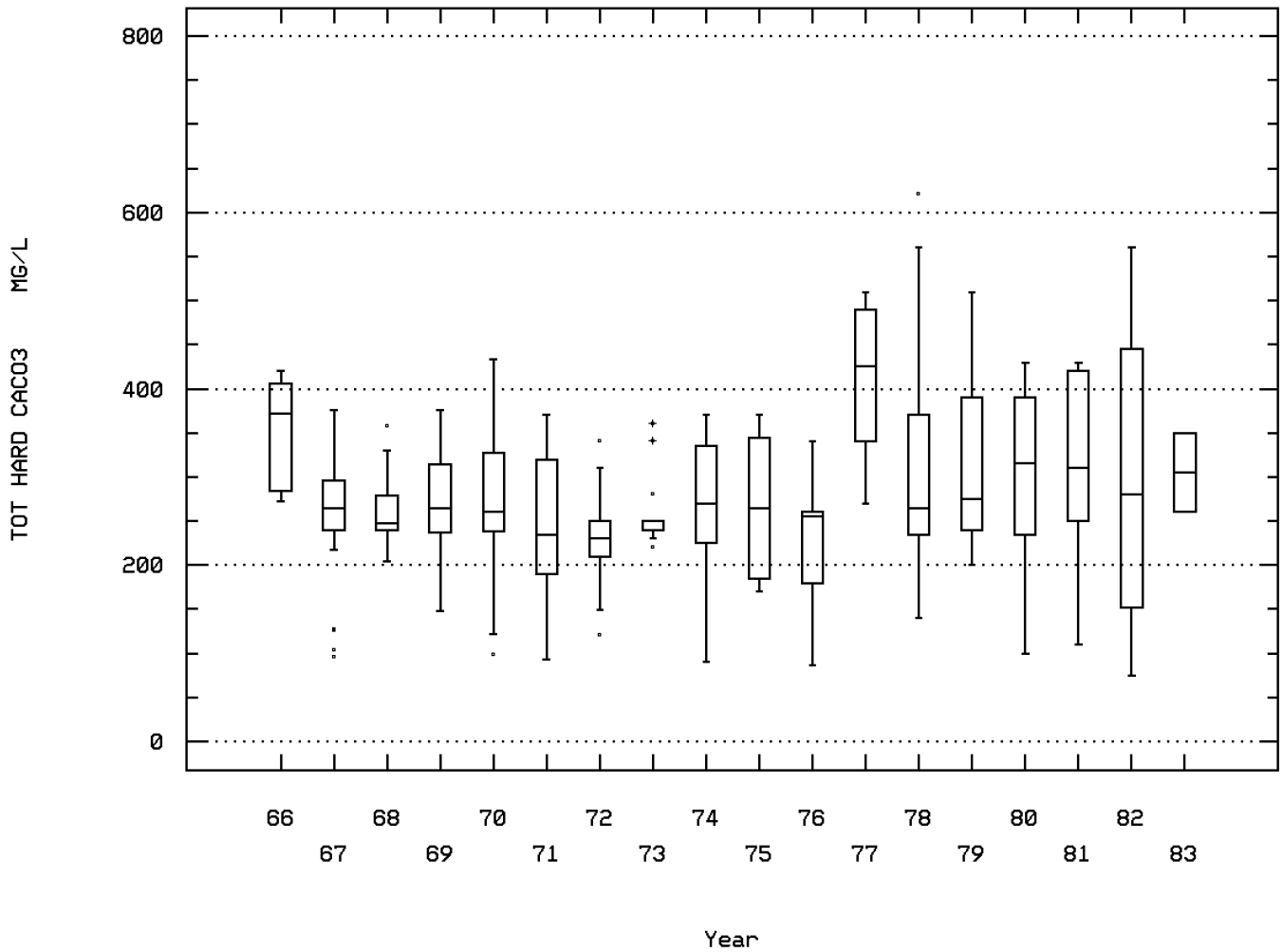
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00900

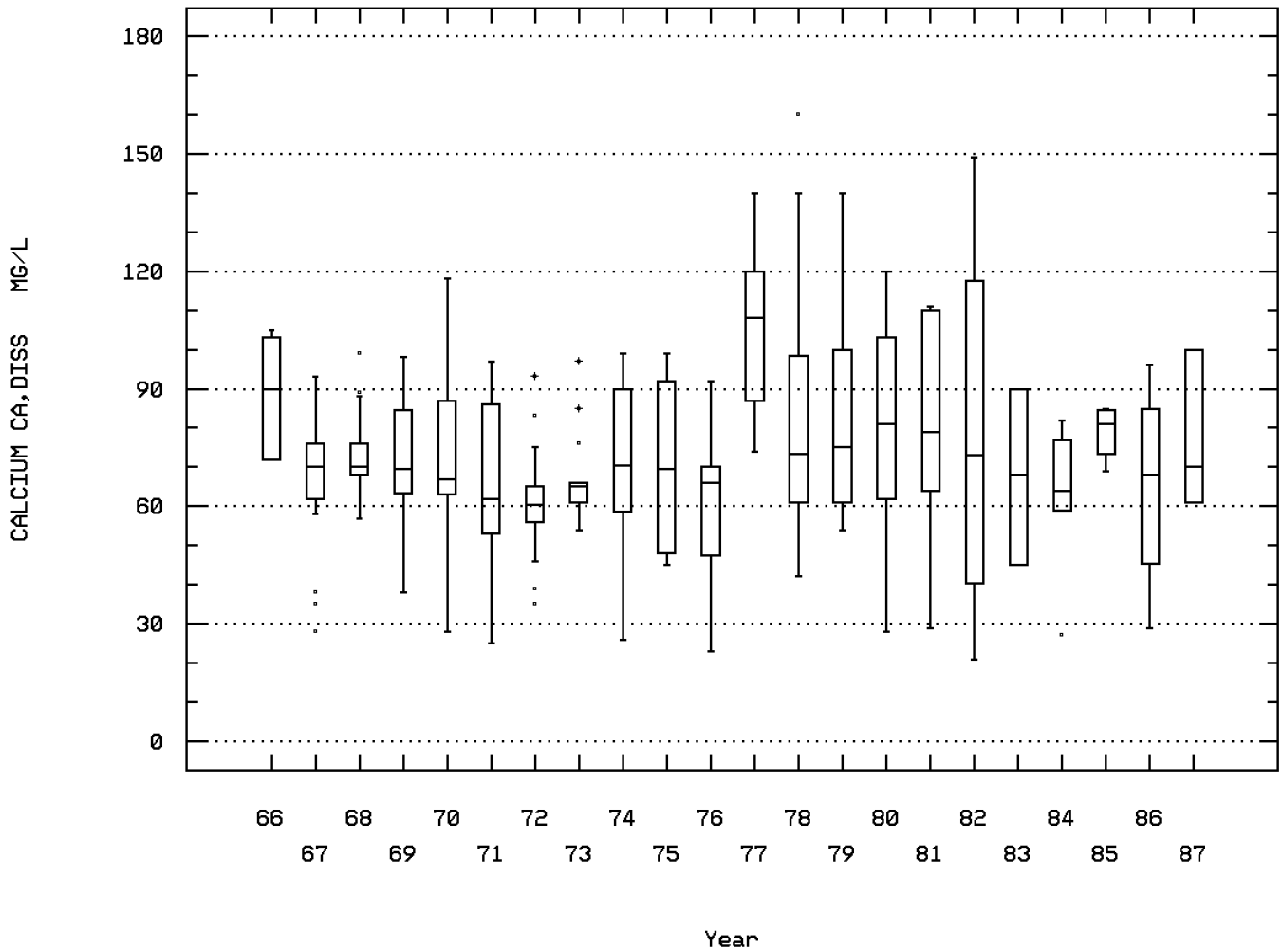
HARDNESS, TOTAL (MG/L AS CACO3)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00915

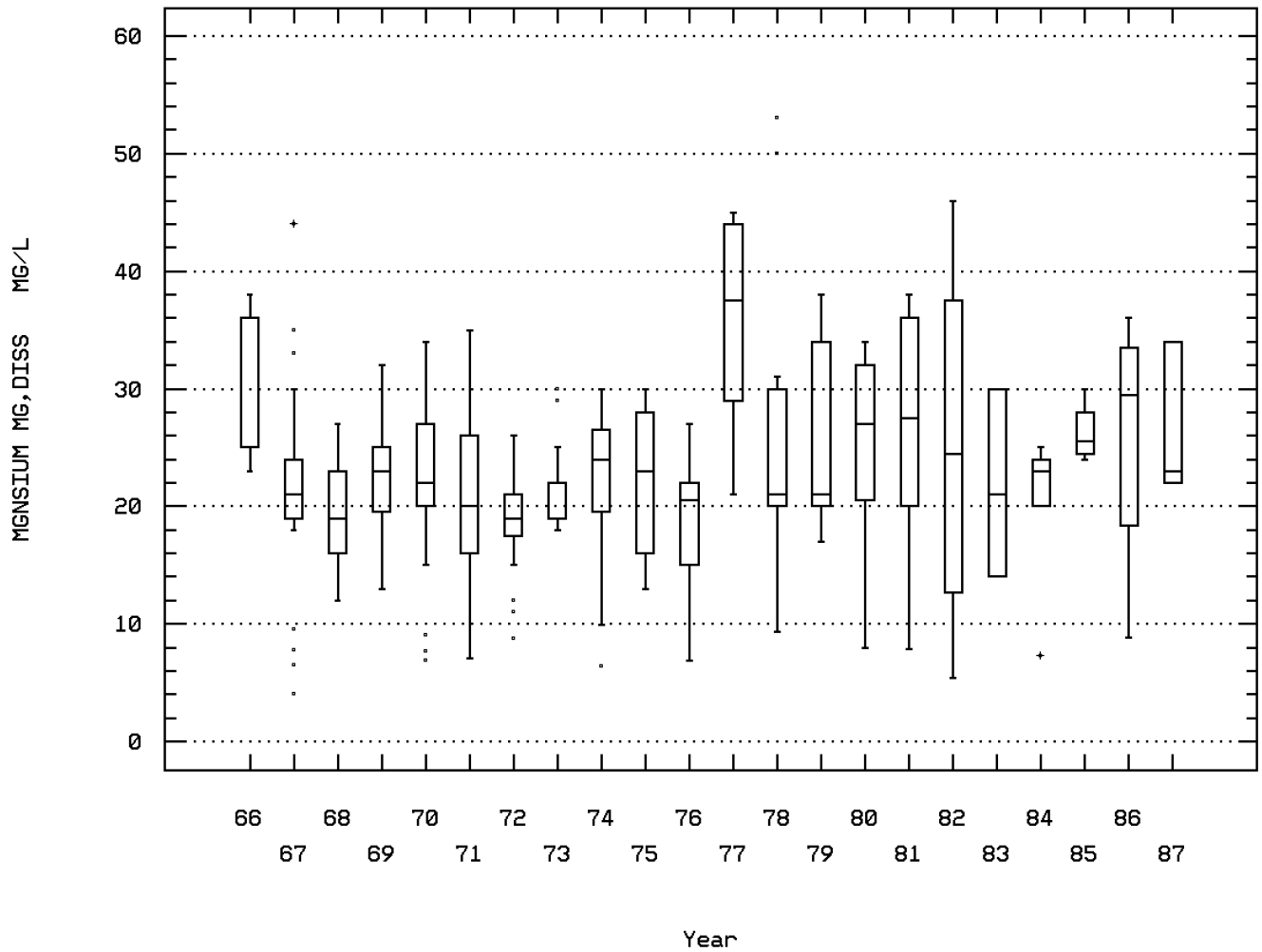
CALCIUM, DISSOLVED (MG/L AS CA)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00925

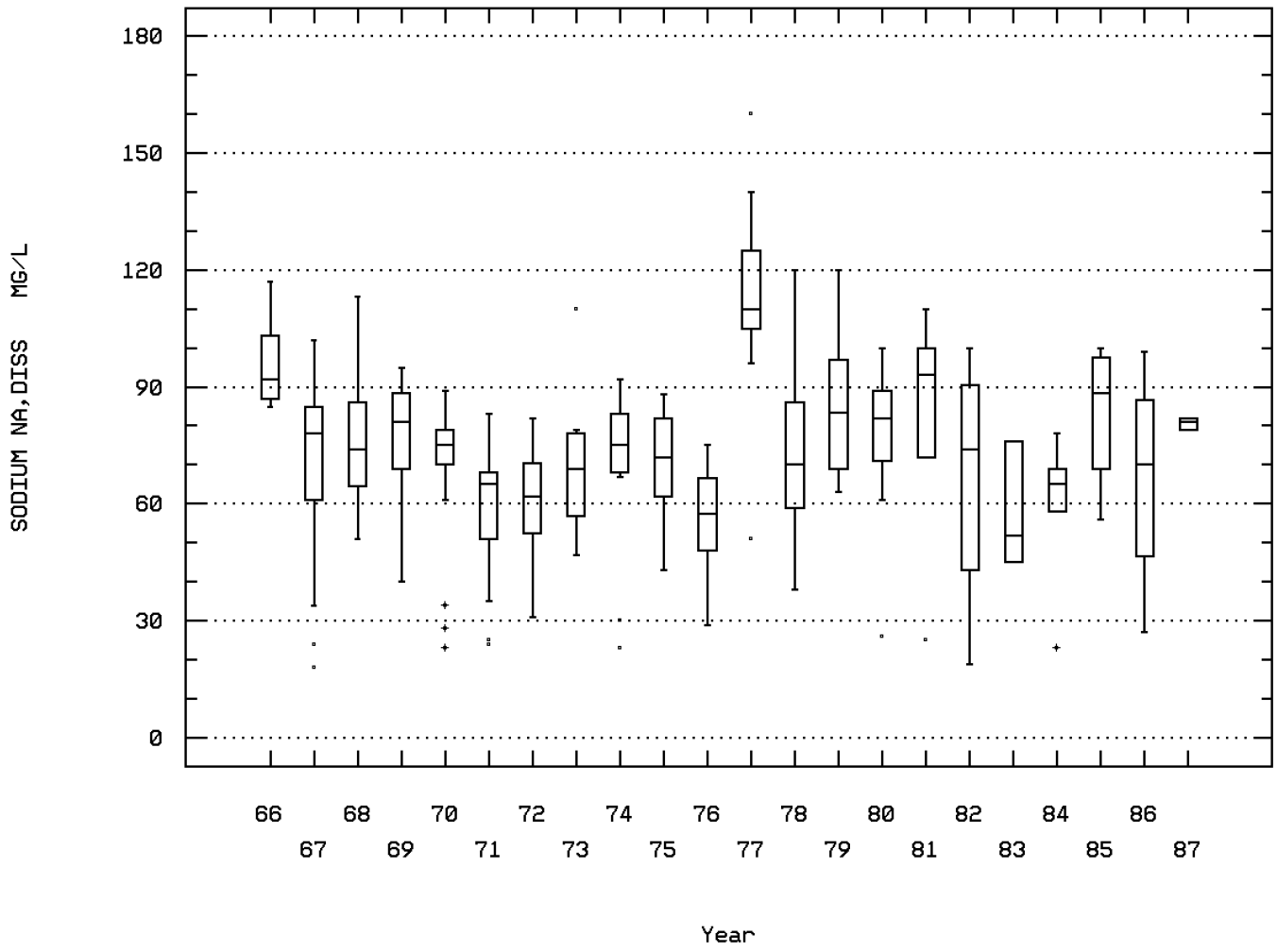
MAGNESIUM, DISSOLVED (MG/L AS MG)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00930

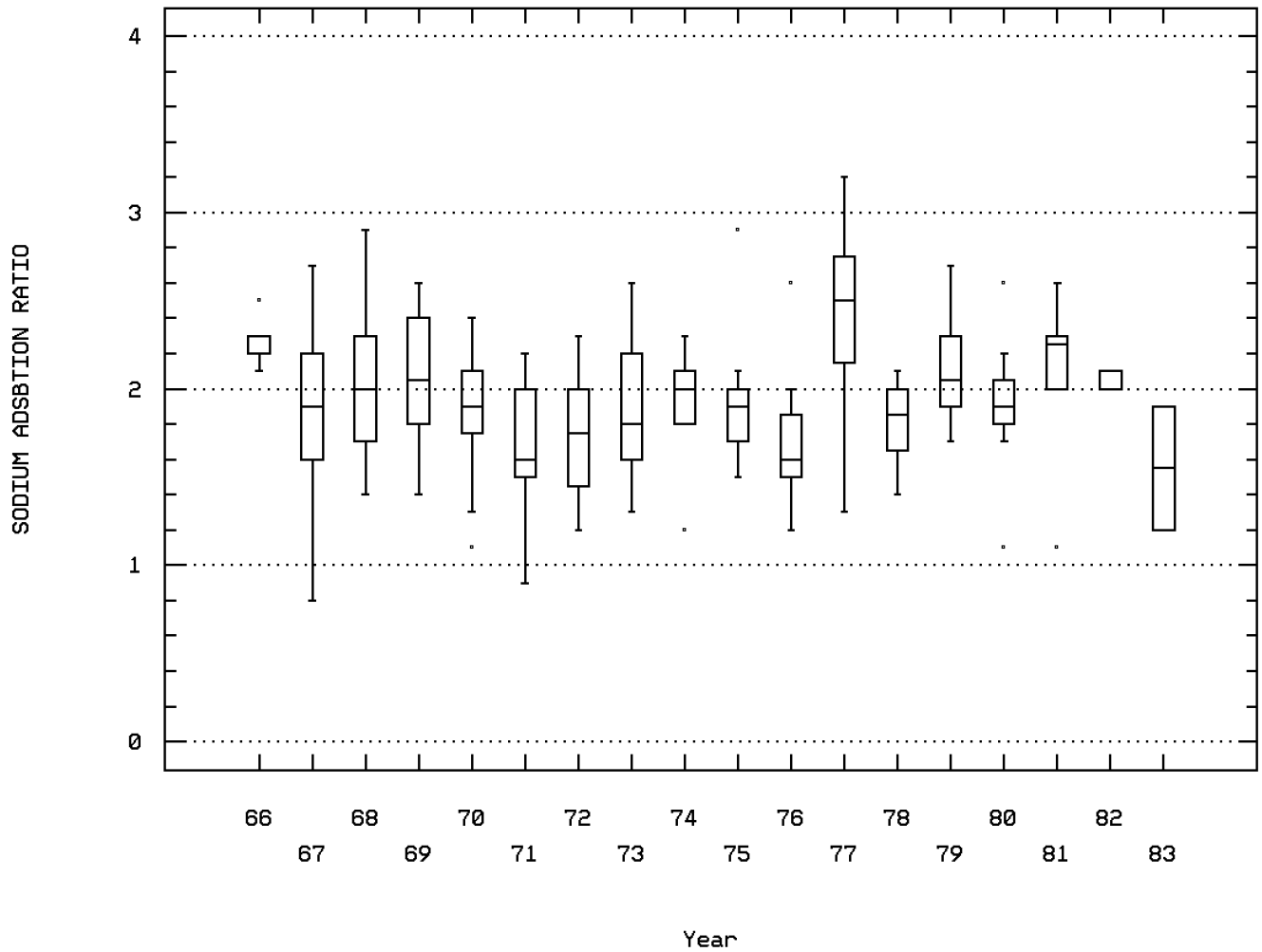
SODIUM, DISSOLVED (MG/L AS NA)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00931

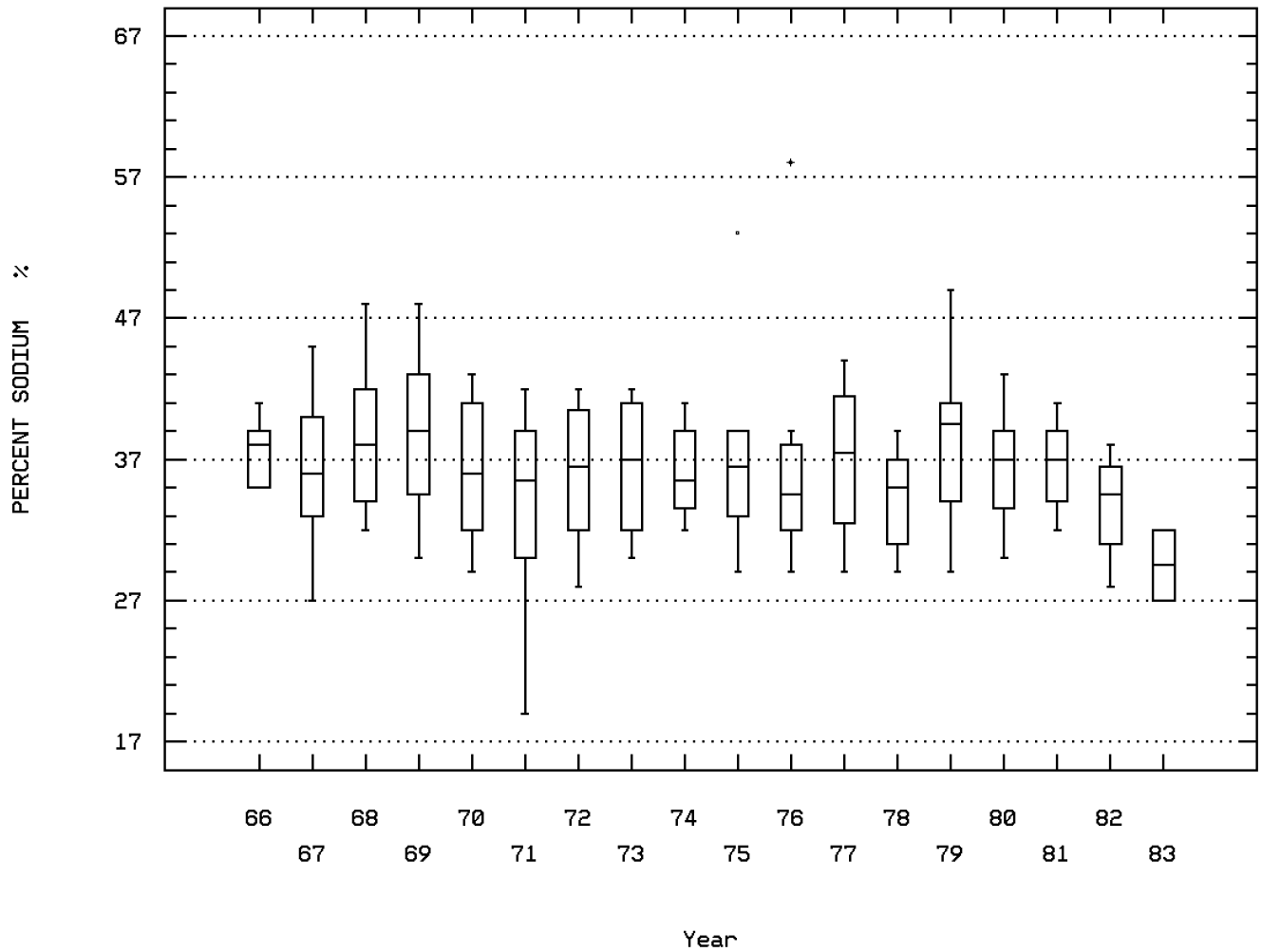
SODIUM ADSORPTION RATIO



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00932

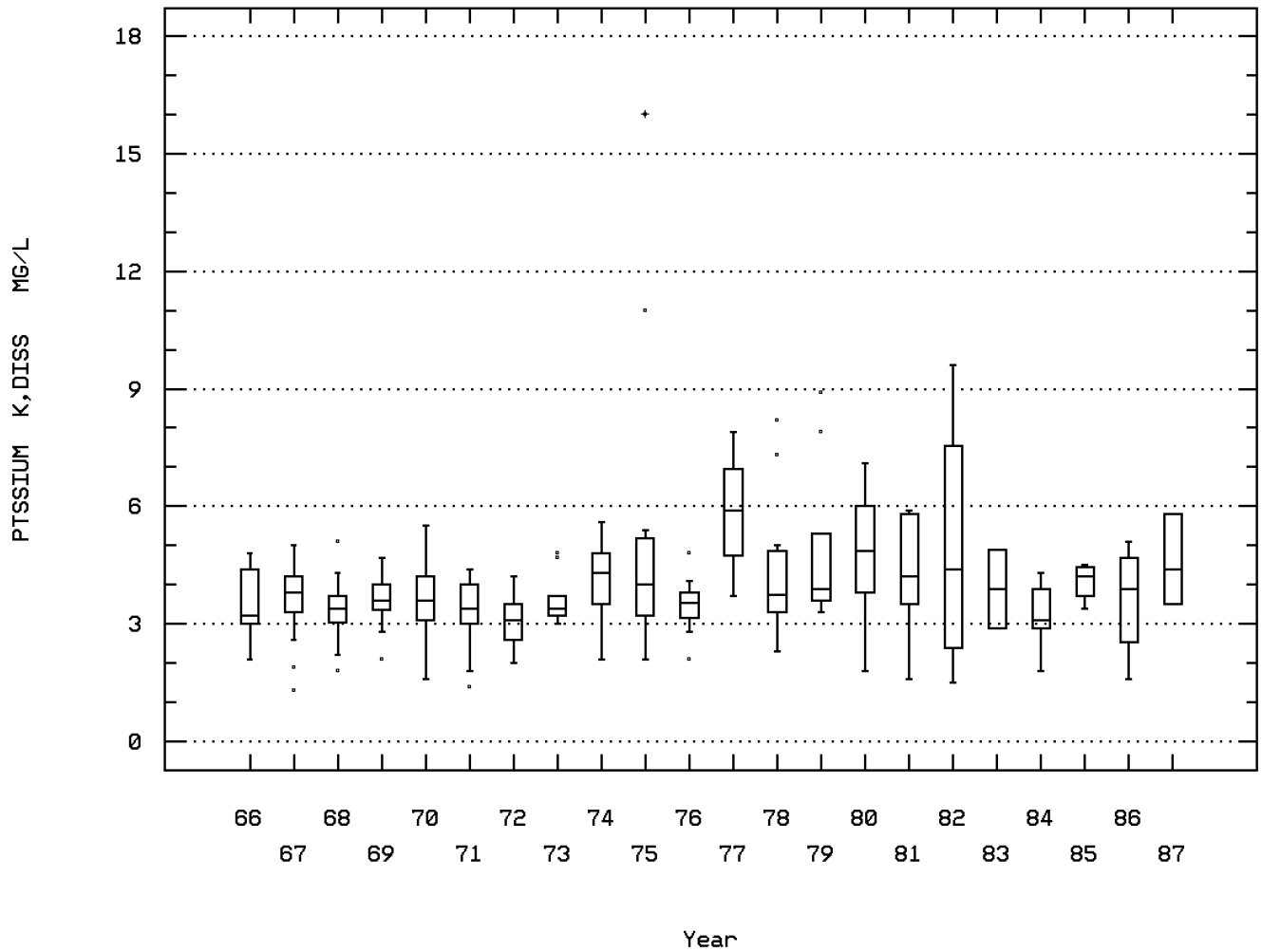
SODIUM, PERCENT



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00935

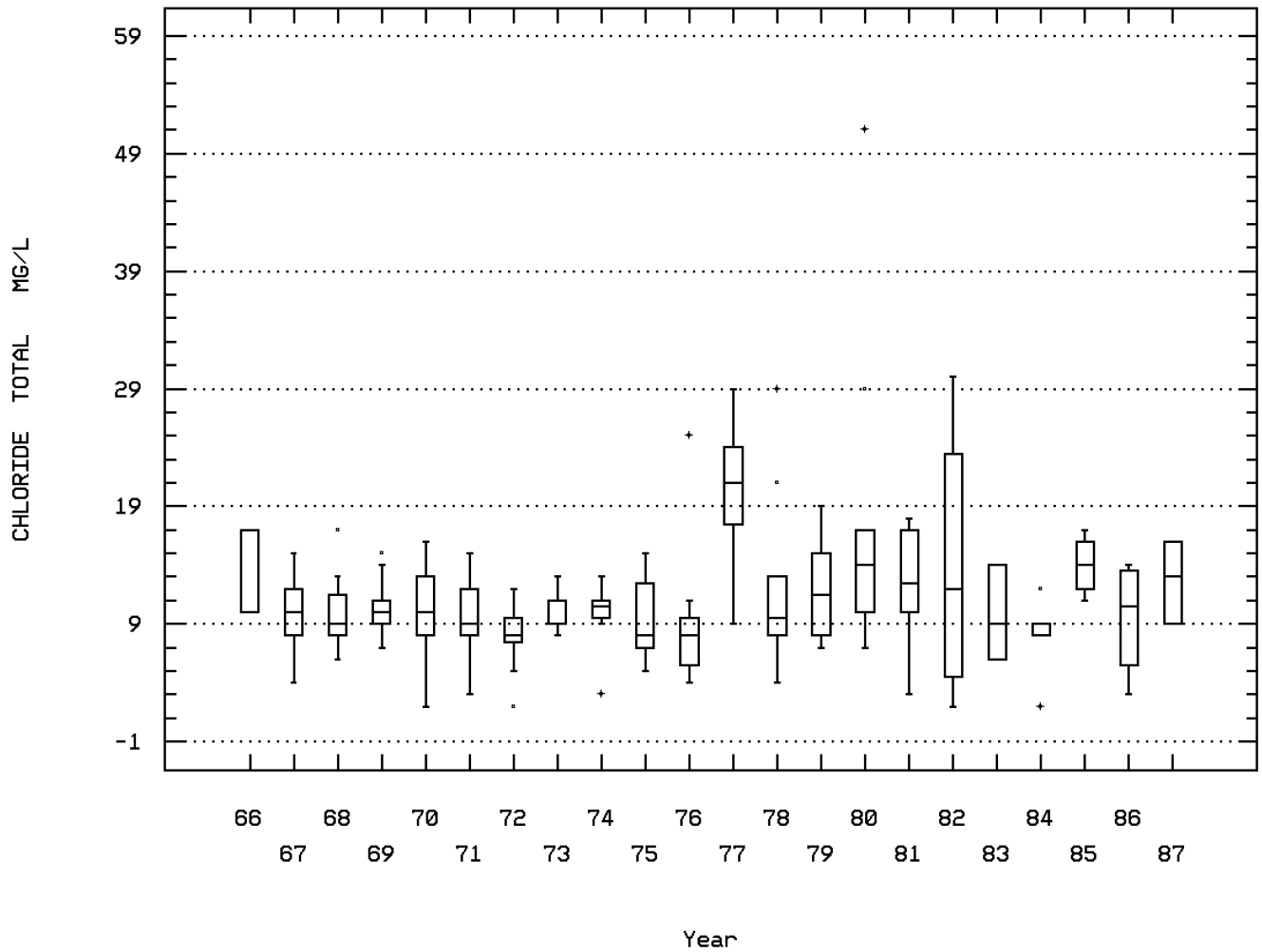
POTASSIUM, DISSOLVED (MG/L AS K)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00940

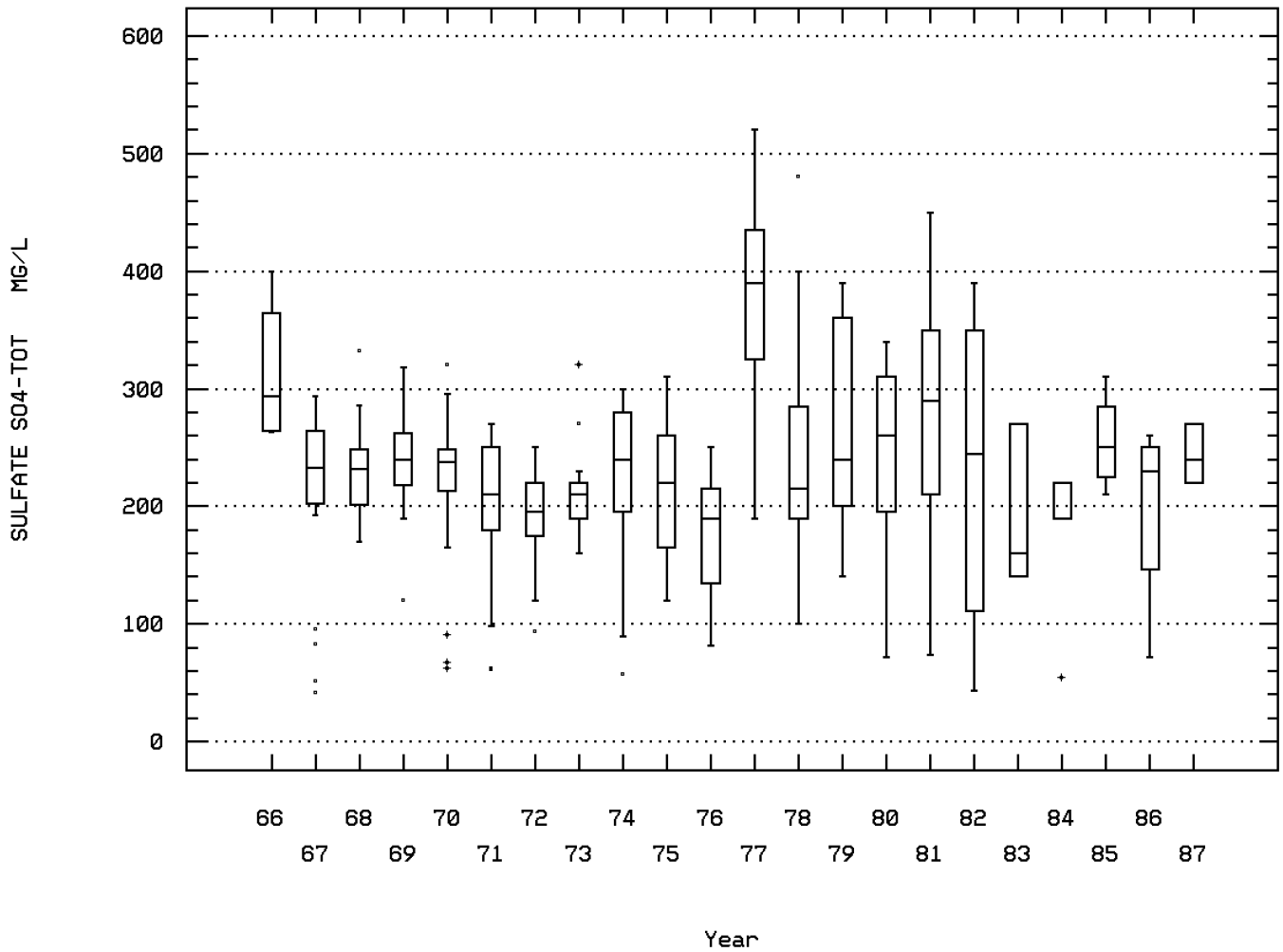
CHLORIDE,TOTAL IN WATER



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00945

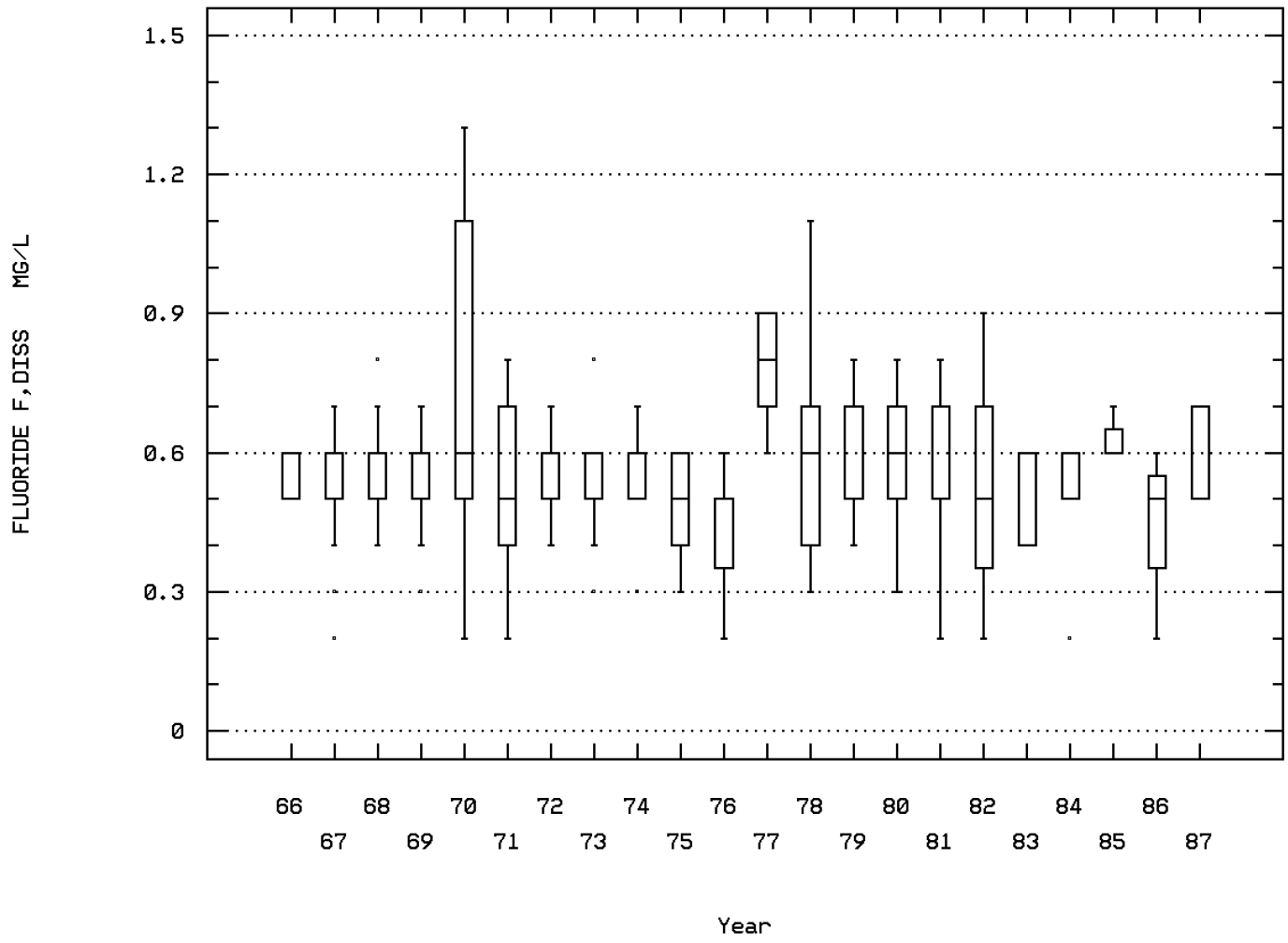
SULFATE, TOTAL (MG/L AS SO4)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00950

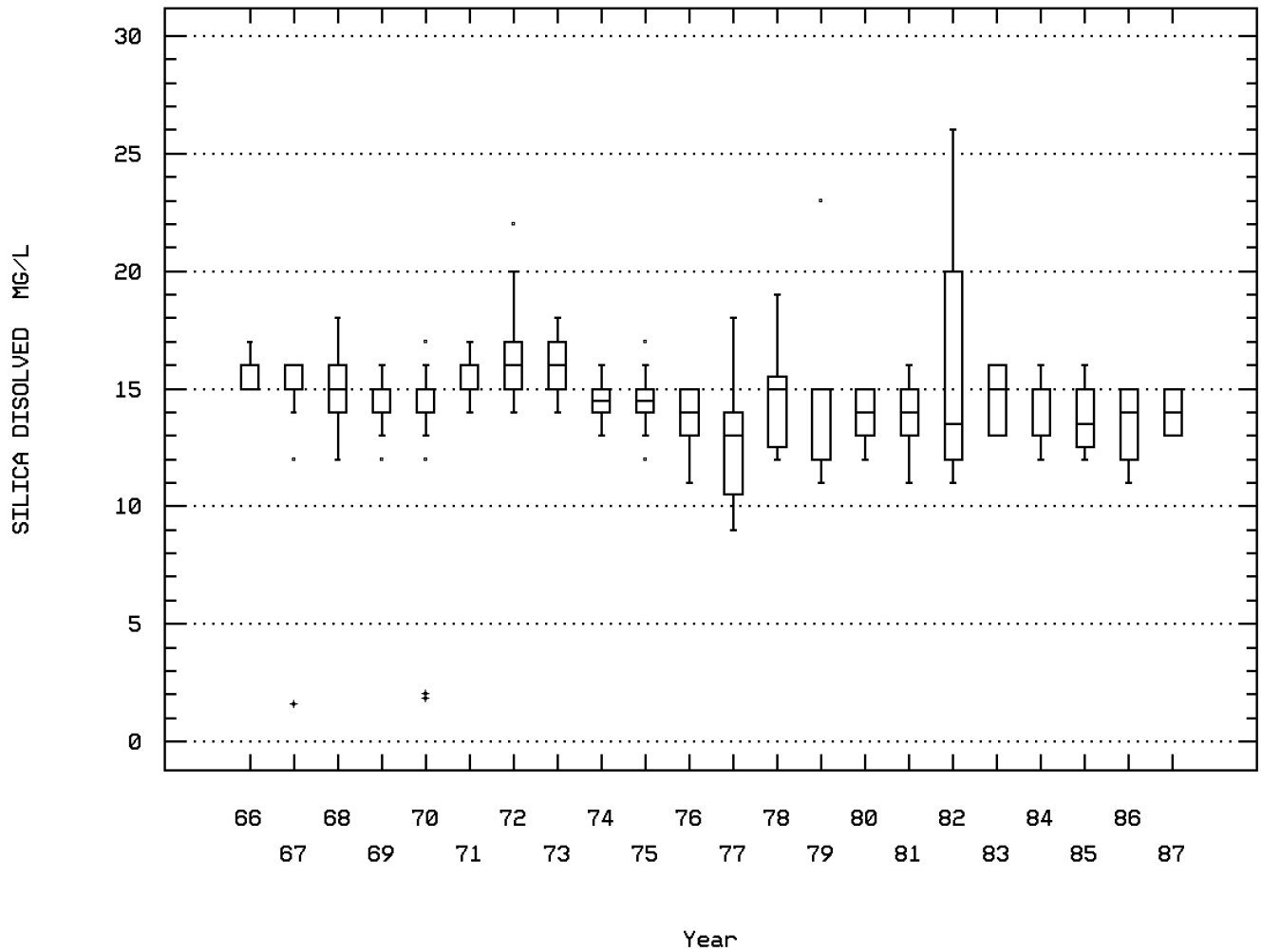
FLUORIDE, DISSOLVED (MG/L AS F)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00955

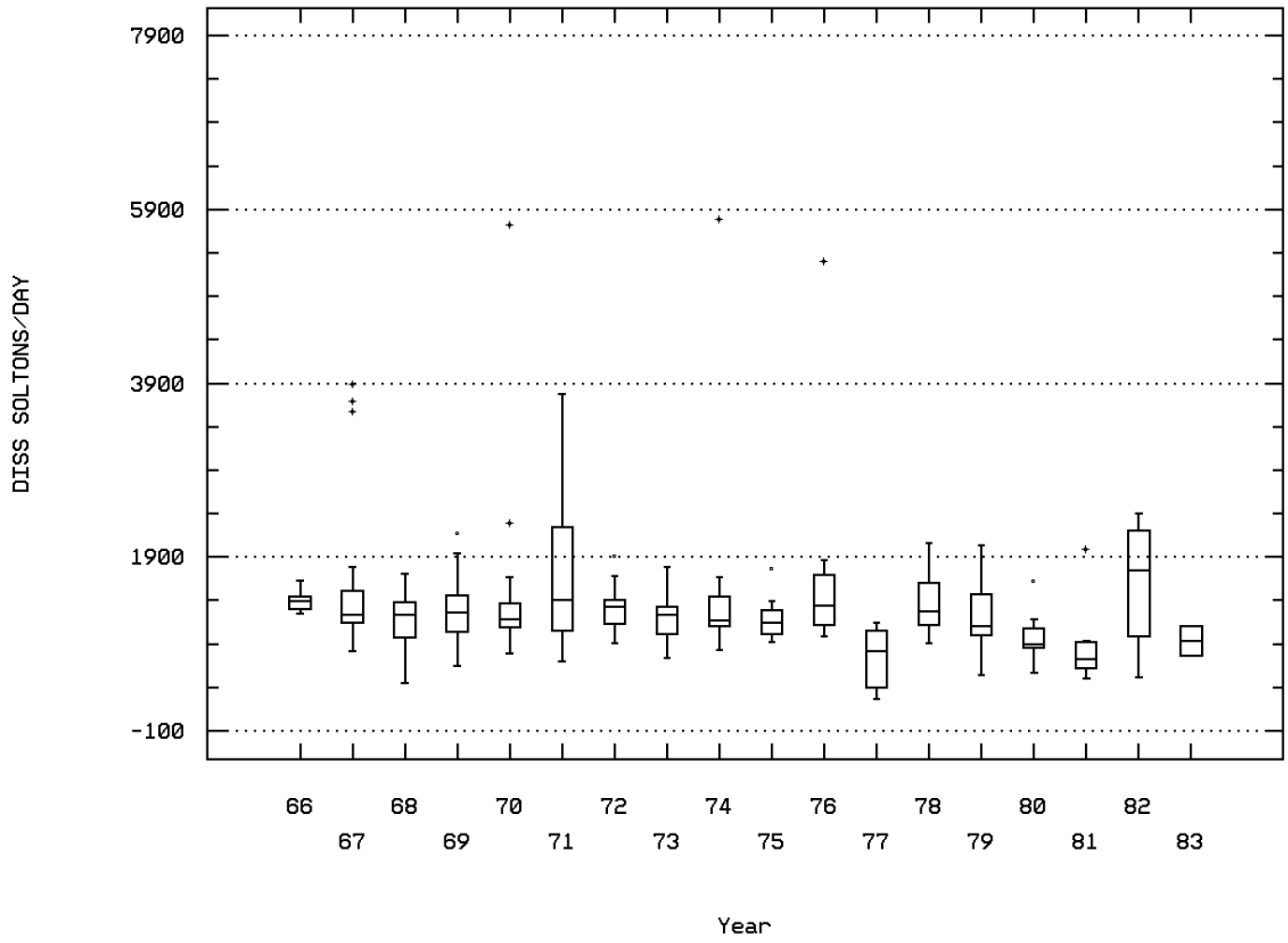
SILICA, DISSOLVED (MG/L AS SI02)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 70302

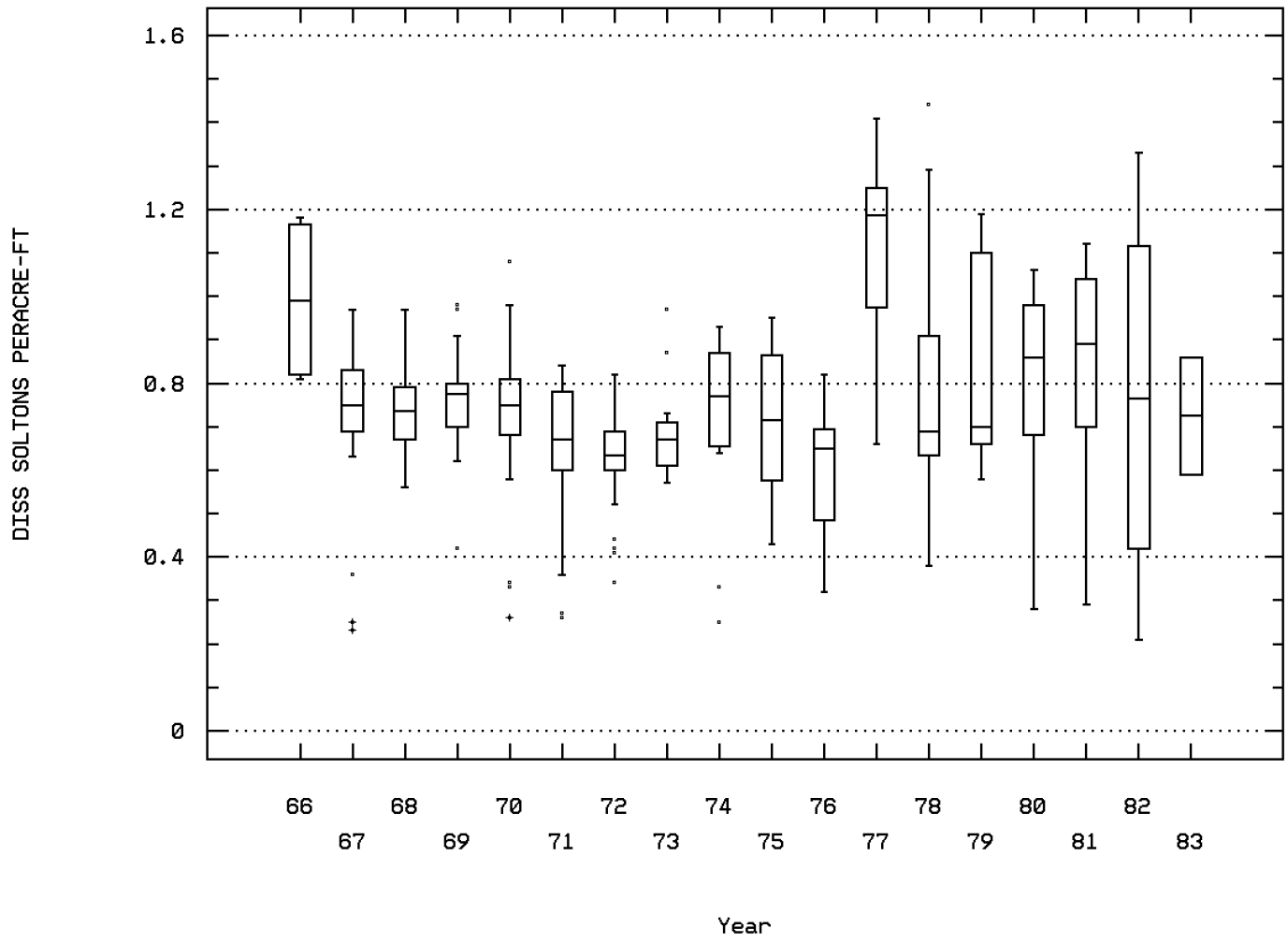
SOLIDS, DISSOLVED-TONS PER DAY



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 70303

SOLIDS, DISSOLVED-TONS PER ACRE-FT



SHOSHONE RIVER NEAR LOVELL WYO

Seasonal Analysis for Season #1: 8/10 to 4/14 - Station BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/67-04/14/97	207	6.	7.153	24.	0.	38.481	6.203	0.	1.5	12.	16.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/74-04/14/97	97	12.	9.733	40.	-26.	135.399	11.636	4.	8.	19.5	28.4
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/66-02/04/79	144	868.	895.979	1710.	516.	40977.559	202.429	654.5	735.75	1068.	1155.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-04/14/97	178	582.5	662.067	4270.	104.	197595.137	444.517	310.6	446.5	799.75	1001.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-04/14/97	259	846.	895.05	1990.	315.	48389.149	219.975	690.	754.	1000.	1200.
00300	OXYGEN, DISSOLVED MG/L	11/12/78-04/14/97	26	12.15	11.812	14.2	8.8	2.813	1.677	9.27	10.525	13.4	14.
00400p	PH (STANDARD UNITS)	10/01/66-04/14/97	157	8.	7.988	8.5	6.8	0.07	0.264	7.68	7.8	8.2	8.3
00400p	CONVERTED PH (STANDARD UNITS)	10/01/66-04/14/97	157	8.	7.889	8.5	6.8	0.08	0.283	7.68	7.8	8.2	8.3
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-04/14/97	157	0.01	0.013	0.158	0.003	0.	0.014	0.005	0.006	0.016	0.021
00405	CARBON DIOXIDE (MG/L AS CO2)	04/15/72-08/23/79	27	3.4	3.881	8.4	1.5	3.183	1.784	1.84	2.1	5.2	6.36
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/66-09/02/80	171	186.	194.602	320.	117.	1126.041	33.557	162.	169.	212.	235.8
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/66-08/23/79	165	224.	235.606	390.	143.	1631.313	40.39	197.6	205.5	258.	280.4
00445	CARBONATE ION (MG/L AS CO3)	10/01/66-08/23/79	134	0.	0.157	7.	0.	0.675	0.821	0.	0.	0.	0.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/01/71-07/09/87	101	0.8	0.907	11.	0.2	1.13	1.063	0.4	0.6	1.	1.2
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/13/70-06/30/87	74	0.08	0.14	1.4	0.005	0.035	0.187	0.02	0.04	0.183	0.33
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/12/70-07/09/87	79	0.02	0.029	0.14	0.	0.001	0.028	0.005	0.01	0.04	0.06
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-03/21/83	187	290.	305.358	620.	160.	5754.747	75.86	230.	248.	350.	406.8
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-08/13/81	178	99.	108.584	320.	43.	1985.318	44.557	68.	76.75	130.	160.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-07/09/87	198	75.	80.389	160.	47.	368.686	19.201	61.	66.	90.	103.2
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-07/09/87	198	24.	25.48	53.	11.	48.84	6.989	19.	20.	29.	35.
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-07/09/87	198	74.	76.076	140.	37.	278.974	16.703	57.	65.	86.	95.1
00931	SODIUM ADSORPTION RATIO	10/01/66-03/21/83	187	1.9	1.915	3.1	0.9	0.112	0.335	1.5	1.7	2.1	2.3
00932	SODIUM, PERCENT	10/01/66-03/21/83	186	34.	35.054	49.	19.	20.548	4.533	30.	32.	39.	41.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-07/09/87	198	3.8	4.232	16.	2.1	2.374	1.541	3.1	3.4	4.7	5.62
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-07/09/87	198	10.	11.672	51.	6.	25.755	5.075	8.	9.	13.	17.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-07/09/87	198	239.5	250.061	480.	120.	3820.717	61.812	188.8	210.	270.	321.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-07/09/87	198	0.6	0.604	1.3	0.3	0.025	0.157	0.5	0.5	0.7	0.8
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-07/09/87	198	15.	14.672	26.	1.6	6.886	2.624	12.	14.	16.	17.
01020	BORON, DISSOLVED (UG/L AS B)	10/01/66-01/11/76	137	150.	158.394	300.	60.	1332.696	36.506	120.	135.	180.	200.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-03/21/83	170	553.5	582.276	1060.	306.	16197.101	127.268	453.3	496.5	636.5	759.4
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-03/21/83	177	1220.01	1239.465	2920.	387.	88567.632	297.603	887.	1090.	1370.005	1600.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-03/21/83	187	0.77	0.802	1.44	0.41	0.029	0.172	0.628	0.68	0.89	1.044
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/18/79-08/14/85	23	0.21	0.353	1.4	0.06	0.12	0.346	0.072	0.12	0.43	1.004
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/07/71-08/31/92	83	117.	203.205	2020.	9.	104924.628	323.921	30.8	54.	200.	425.6
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/07/71-08/18/82	76	223.	415.52	6110.	2.5	584386.636	764.452	49.7	100.75	413.75	765.3

** - 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: 4/15 to 6/19 - Station BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/67-04/14/97	54	12.9	13.08	22.	7.2	11.717	3.423	8.75	10.5	16.	18.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/74-04/14/97	25	19.9	19.26	38.	8.	46.113	6.791	10.96	14.5	22.75	28.4
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/66-02/04/79	36	779.5	1067.306	5168.	306.	807069.418	898.37	481.	638.75	1042.	2283.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-04/14/97	47	639.	1413.894	15700.	70.	6272318.923	2504.46	150.6	443.	1250.	3220.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-04/14/97	68	738.	744.265	1500.	276.	50339.69	224.365	432.6	631.75	848.25	1000.
00300	OXYGEN, DISSOLVED MG/L	11/12/78-04/14/97	6	9.85	9.567	11.	7.7	1.339	1.157	**	**	**	**
00400p	PH (STANDARD UNITS)	10/01/66-04/14/97	42	8.05	7.983	8.5	6.5	0.128	0.358	7.63	7.8	8.2	8.37
00400p	CONVERTED PH (STANDARD UNITS)	10/01/66-04/14/97	42	8.047	7.721	8.5	6.5	0.199	0.446	7.63	7.8	8.2	8.37
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-04/14/97	42	0.009	0.019	0.316	0.003	0.002	0.048	0.004	0.006	0.016	0.024
00405	CARBON DIOXIDE (MG/L AS CO2)	04/15/72-08/23/79	9	4.9	5.767	16.	1.	23.323	4.829	1.	2.1	8.35	16.
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/66-09/02/80	45	160.	154.111	240.	85.	832.601	28.855	108.8	137.5	174.	180.
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/66-08/23/79	43	195.	186.558	290.	104.	1277.252	35.739	130.6	164.	212.	219.2
00445	CARBONATE ION (MG/L AS CO3)	10/01/66-08/23/79	36	0.	0.333	6.	0.	1.314	1.146	0.	0.	0.	1.3
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/01/71-07/09/87	21	0.7	0.771	1.4	0.2	0.122	0.349	0.32	0.5	1.1	1.3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/13/70-06/30/87	18	0.17	0.796	7.9	0.05	3.533	1.88	0.068	0.14	0.41	3.31
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/12/70-07/09/87	18	0.03	0.043	0.11	0.005	0.001	0.034	0.005	0.02	0.068	0.101

** - Less than 9 observations ## - Computed 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: 4/15 to 6/19 - Station BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-03/21/83	47	236.	231.191	480.	86.	4596.202	67.795	140.	185.	265.	291.6
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-08/13/81	45	68.	71.8	240.	1.	1642.255	40.525	26.4	49.5	92.5	100.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-07/09/87	50	62.5	61.76	120.	23.	292.145	17.092	38.4	51.25	73.	77.8
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-07/09/87	50	19.5	19.008	43.	6.9	38.57	6.21	12.	14.75	21.25	25.9
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-07/09/87	50	75.	75.02	160.	31.	529.367	23.008	43.4	61.25	87.25	100.
00931	SODIUM ADSORPTION RATIO	10/01/66-03/21/83	47	2.1	2.128	3.2	1.2	0.193	0.44	1.56	1.8	2.4	2.62
00932	SODIUM, PERCENT	10/01/66-03/21/83	47	40.	40.787	58.	34.	20.171	4.491	35.8	38.	43.	45.6
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-07/09/87	50	3.45	3.512	6.4	1.8	0.896	0.946	2.22	2.9	4.	4.78
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-07/09/87	50	9.	10.48	29.	2.	23.928	4.892	5.	7.	13.	15.9
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-07/09/87	50	210.	212.88	520.	83.	5440.434	73.759	120.	175.	244.25	278.6
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-07/09/87	50	0.55	0.562	1.2	0.2	0.036	0.189	0.4	0.4	0.6	0.79
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-07/09/87	50	15.	14.32	17.	10.	2.916	1.708	12.	13.	16.	16.
01020	BORON, DISSOLVED (UG/L AS B)	10/01/66-01/11/76	35	120.	114.857	200.	30.	1249.244	35.345	66.	90.	130.	150.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-03/21/83	42	483.	493.452	1040.	252.	20343.717	142.631	304.6	417.25	549.25	682.2
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-03/21/83	46	995.5	1232.349	5290.	270.	756311.739	869.662	547.8	786.	1392.5	1985.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-03/21/83	47	0.68	0.679	1.41	0.34	0.037	0.193	0.412	0.58	0.77	0.882
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/18/79-08/14/85	8	0.615	0.739	1.4	0.25	0.175	0.419	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/07/71-08/31/92	23	277.	883.957	6060.	47.	2568484.316	1602.649	80.2	204.	628.	3958.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/07/71-08/18/82	22	542.	5387.632	81500.	8.9	302489668.897	17392.23	36.1	278.	2610.	13407.

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

Seasonal Analysis for Season #3: 6/20 to 8/09 - Station BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/67-04/14/97	52	18.	18.379	25.5	13.	8.37	2.893	15.	16.5	20.6	22.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/74-04/14/97	20	29.	29.175	35.	17.	20.086	4.482	22.2	28.	32.625	34.95
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/66-02/04/79	31	1010.	2246.097	8670.	314.	5435424.224	2331.4	554.2	740.	2500.	6718.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-04/14/97	45	1620.	2126.911	11500.	104.	4542147.583	2131.231	298.2	513.5	2965.	4872.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-04/14/97	54	612.5	590.333	1050.	270.	52875.887	229.948	293.	387.5	760.	885.
00300	OXYGEN, DISSOLVED MG/L	11/12/78-04/14/97	6	9.	9.433	11.2	7.5	2.099	1.449	**	**	**	**
00400p	PH (STANDARD UNITS)	10/01/66-04/14/97	35	8.	7.951	8.7	7.	0.152	0.39	7.34	7.8	8.1	8.44
00400p	CONVERTED PH (STANDARD UNITS)	10/01/66-04/14/97	35	8.	7.751	8.7	7.	0.193	0.44	7.34	7.8	8.1	8.44
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-04/14/97	35	0.01	0.018	0.1	0.002	0.001	0.023	0.004	0.008	0.016	0.051
00405	CARBON DIOXIDE (MG/L AS CO2)	04/15/72-08/23/79	6	2.65	2.6	4.8	1.	1.7	1.304	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/66-09/02/80	37	139.	134.622	210.	75.	1465.853	38.286	87.2	98.	166.	186.6
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/66-08/23/79	35	170.	164.571	260.	92.	2212.193	47.034	107.6	120.	203.	228.2
00445	CARBONATE ION (MG/L AS CO3)	10/01/66-08/23/79	29	0.	0.276	4.	0.	1.064	1.032	0.	0.	0.	0.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/01/71-07/09/87	23	0.6	0.684	1.5	0.01	0.16	0.4	0.098	0.4	1.	1.2
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/13/70-06/30/87	19	0.13	0.162	0.4	0.005	0.011	0.104	0.03	0.09	0.23	0.32
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/12/70-07/09/87	17	0.04	0.049	0.12	0.005	0.001	0.031	0.009	0.025	0.07	0.096
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-03/21/83	40	180.	178.425	340.	75.	4806.558	69.329	96.2	120.	231.5	258.5
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-08/13/81	37	48.	46.622	150.	5.	1031.186	32.112	9.4	19.5	65.	85.2
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-07/09/87	43	45.	47.349	88.	21.	313.375	17.702	27.	31.	60.	71.2
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-07/09/87	43	13.	14.151	30.	4.	41.952	6.477	6.66	8.	19.	23.
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-07/09/87	43	43.	54.279	120.	18.	825.206	28.726	23.	27.	76.	94.6
00931	SODIUM ADSORPTION RATIO	10/01/66-03/21/83	40	1.55	1.715	2.9	0.8	0.337	0.58	1.01	1.125	2.175	2.59
00932	SODIUM, PERCENT	10/01/66-03/21/83	40	38.	38.35	45.	27.	16.695	4.086	34.	35.	41.	44.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-07/09/87	43	2.5	2.628	4.8	1.3	0.762	0.873	1.6	1.9	3.3	3.8
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-07/09/87	43	7.	6.488	18.	1.	15.589	3.948	2.	3.	9.	11.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-07/09/87	43	120.	149.209	340.	41.	6951.931	83.378	55.2	72.	220.	255.2
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-07/09/87	43	0.4	0.414	0.8	0.2	0.026	0.163	0.2	0.3	0.6	0.6
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-07/09/87	43	15.	15.116	17.	11.	1.439	1.199	13.4	15.	16.	16.
01020	BORON, DISSOLVED (UG/L AS B)	10/01/66-01/11/76	29	100.	98.966	190.	20.	1909.606	43.699	40.	65.	135.	150.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-03/21/83	36	390.	387.639	721.	155.	26937.952	164.128	191.1	235.75	514.	618.
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-03/21/83	40	1445.	1802.926	5780.	397.	1675444.8	1294.39	605.7	959.	2040.	3749.001
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-03/21/83	40	0.475	0.514	0.98	0.21	0.05	0.223	0.251	0.323	0.685	0.799

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

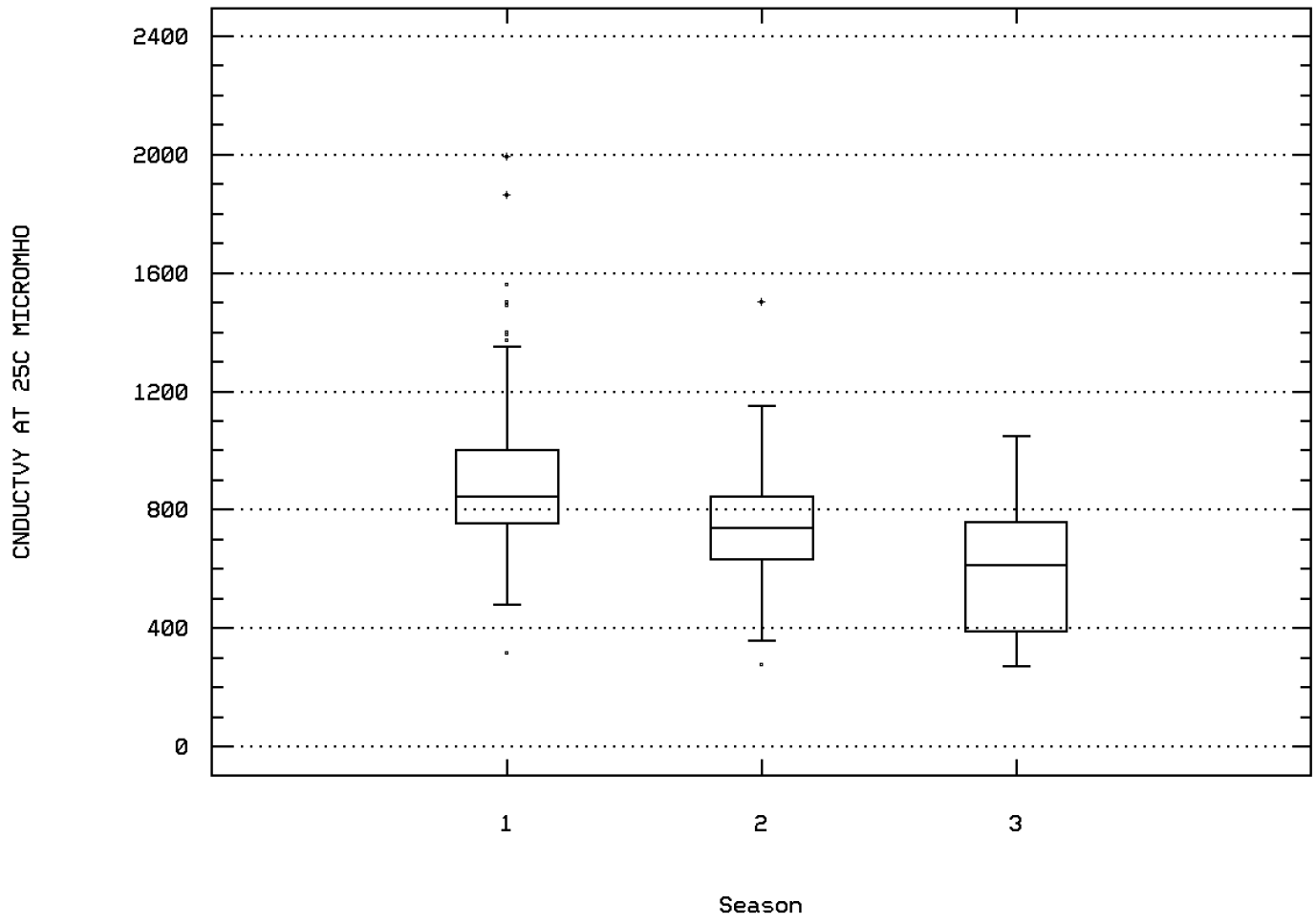
Seasonal Analysis for Season #3: 6/20 to 8/09 - Station BICA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/18/79-08/14/85	6	0.49	0.608	1.2	0.09	0.169	0.411	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/07/71-08/31/92	28	291.5	447.	2600.	24.	243057.778	493.009	93.7	147.5	649.25	792.7
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/07/71-08/18/82	25	1020.	6019.868	80700.	6.7	254251473.602	15945.265	90.2	290.5	5845.	11040.

** - Less than 9 observations ## - Computed 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: BICA0019 Parameter Code: 00095

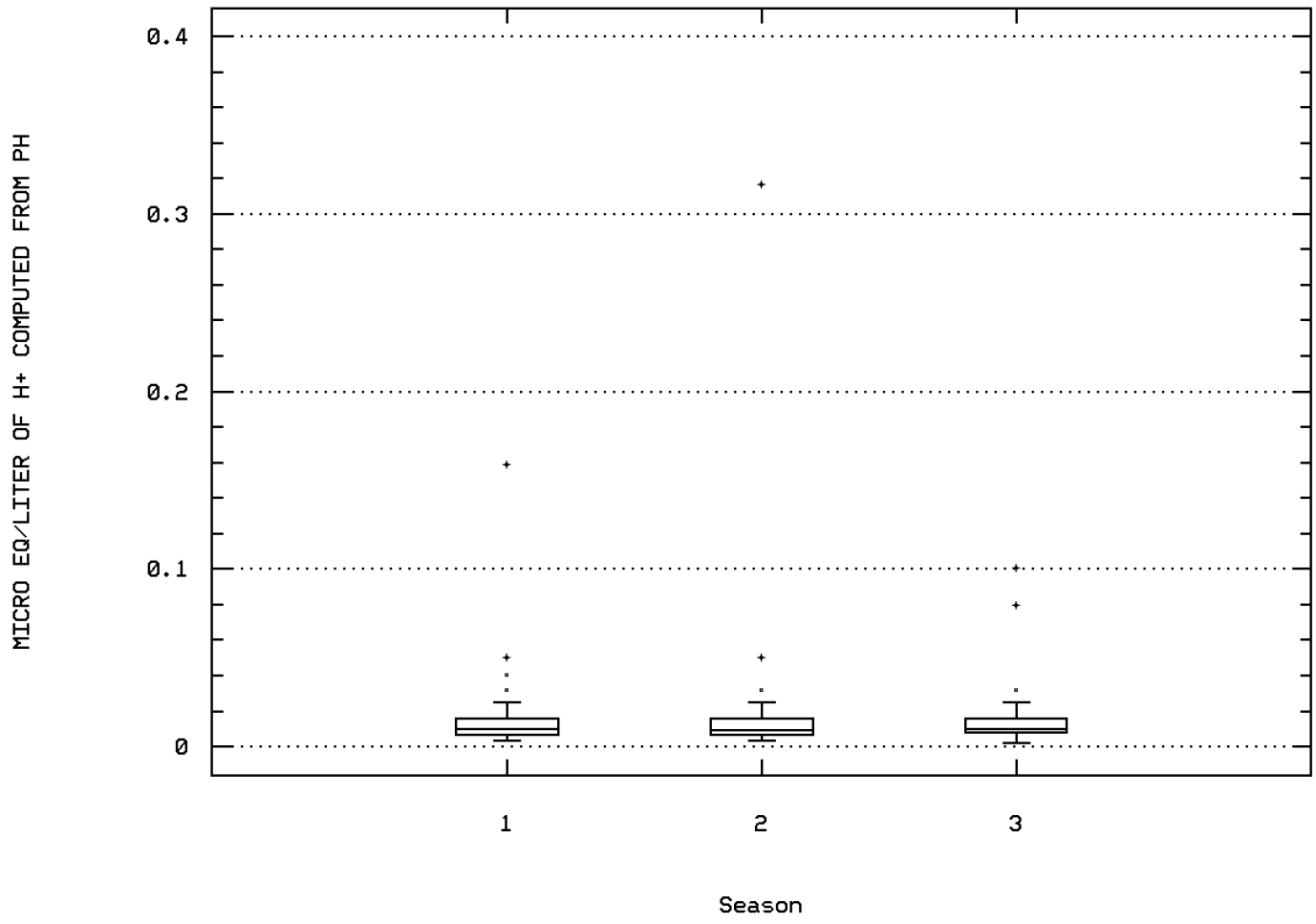
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



SHOSHONE RIVER NEAR LOVELL WYO

Station: BICA0019 Parameter Code: 00400

MICRO EQ/LITER OF H+ COMPUTED FROM PH



SHOSHONE RIVER NEAR LOVELL WYO

Station Inventory for Station: BICA0020

NPS Station ID: BICA0020
LAT/LON: 44.838892/-108.433337
Agency: 21WYDHSS
Date Created: 01/31/77
Location: SHOSHONI RIVER NEAR LOVELL
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 000542 /USGS06285100
RMI-Indexes: 1021500 009490 36810 4430 5300
Within Park Boundary: No
RMI-Miles: 1149.40 1582.00 279.40 136.20 014.00
HUC: 10080014
Depth of Water: 100
Aquifer:
Major Basin: MISSOURI R.
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE BASIN
ECO Region:
RF1 Index: 10080014005
RF1 Mile Point: 3.750
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 10080014096300.00
RF3 Mile Point: 6.93
Distance from RF3: 0.49
On/Off RF3:
Description:
AT USGS GAGING STATION 30FT UPSTREAM FROM BRIDGE ON US HIGWAY 310 AND1. MI. WEST OF LOVELL.

Parameter Inventory for Station: BICA0020

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/09/76-04/19/78	9	14.	13.333	24.	1.	61.25	7.826	1.	7.	20.5	24.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/09/76-04/19/78	8	29.5	29.875	64.	3.	522.982	22.869	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/09/76-04/19/78	8	947.5	857.875	1284.	236.	127367.839	356.886	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/09/76-04/19/78	9	11.6	10.933	13.	9.1	2.44	1.562	9.1	9.3	12.3	13.
00400	PH (STANDARD UNITS)	06/09/76-04/19/78	9	8.	8.067	8.6	7.4	0.175	0.418	7.4	7.75	8.45	8.6
00400	CONVERTED PH (STANDARD UNITS)	06/09/76-04/19/78	9	8.	7.893	8.6	7.4	0.209	0.457	7.4	7.75	8.45	8.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/09/76-04/19/78	9	0.01	0.013	0.04	0.003	0.	0.012	0.003	0.004	0.019	0.04
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/09/76-04/19/78	9	700.	652.444	935.	174.	64960.278	254.873	174.	483.	886.5	935.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/09/76-04/19/78	9	80.	191.	1224.	6.	152205.75	390.136	6.	20.	122.	1224.
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/09/76-08/17/77	6	0.79	0.743	1.	0.34	0.06	0.245	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/09/77-04/19/78	2	0.905	0.905	1.63	0.18	1.051	1.025	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/09/76-04/19/78	9	0.1	0.194	1.	0.03	0.093	0.306	0.03	0.05	0.145	1.
01501	ALPHA, TOTAL	06/09/76-04/19/78	8 ##	2.625	9.5	50.	0.25	286.464	16.925	**	**	**	**
01502	ALPHA, TOTAL, COUNTING ERROR	06/09/76-04/19/78	8 ##	10.75	12.063	30.	4.	68.531	8.278	**	**	**	**
03501	BETA, TOTAL	06/09/76-04/19/78	8	9.5	15.	52.	1.	293.714	17.138	**	**	**	**
03502	BETA, TOTAL, COUNTING ERROR	06/09/76-04/19/78	8	13.5	10.063	17.	1.5	44.174	6.646	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/09/76-04/19/78	8	205.	295.875	884.	3.	88005.839	296.658	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/09/76-04/19/78	8	2.311	2.11	2.946	0.477	0.648	0.805	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			128.731								

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

EPA Water Quality Criteria Analysis for Station: BICA0020

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	8	2	0.25	4	0	0.00	4	2	0.50						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	9	0	0.00	5	0	0.00	4	0	0.00						
00400	PH	Fresh Chronic	9.	9	0	0.00	5	0	0.00	4	0	0.00						
		Other-Lo Lim.	6.5	9	0	0.00	5	0	0.00	4	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	6	0	0.00	3	0	0.00	3	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00	1	0	0.00	1	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	8	4	0.50	5	2	0.40	3	2	0.67						

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

Station Inventory for Station: BICA0021

NPS Station ID: BICA0021
LAT/LON: 44.850004/-108.383337
Agency: 11NPSWRD
Date Created: 11/01/97
Location: SHOSHONE RIVER NR LOVELL WY
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_WRDS_7 /WRDS-03319:0
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080014
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 6800
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080014
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
The Environmental Protection Agency collected the data stored at this station. The Wyoming Water Resources Center entered these data into the Wyoming Water Resources Data System (WRDS) which is a clearinghouse of hydrological and climatological data for the State of Wyoming. WRDS can be accessed on-line at: WWW-WWRC.UWYO.EDU/WRDS. WRDS staff can be contacted at PO Box 3067 Laramie WY 82071-3067; Tel. 307-766-6651; Fax. 307-766-3785; E-Mail: WRDS@UWYO.EDU. This was one of 9 stations for Bighorn Canyon NRA that were uploaded to STORET from the WRDS. These data are locked in STORET (can't be accessed without the NPS Unlocking Key) so the Wyoming Water Resources Center doesn't provide duplicative data to its clients (from STORET & WRDS). The station is located on the Lovell WY 7.5' USGS topographic quadrangle. The data were uploaded to STORET by Dean Tucker; National Park Service Water Resources Division; 1201 Oak Ridge Drive Suite 250; Fort Collins CO 80525 (tel. 970-225-3516).

Parameter Inventory for Station: BICA0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	02/05/75-12/16/75	14	0.6	0.607	0.7	0.6	0.001	0.027	0.6	0.6	0.6	0.65
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/05/75-12/16/75	14	2.425	4.423	15.2	0.013	26.976	5.194	0.031	0.098	7.425	13.6
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/05/75-12/16/75	14	14.75	15.5	28.	6.5	48.971	6.998	6.55	9.225	20.75	27.
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/05/75-12/16/75	14	0.075	0.096	0.5	0.02	0.015	0.121	0.02	0.035	0.1	0.3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/05/75-12/16/75	14	6.	5.789	10.	0.34	9.365	3.06	1.42	2.95	8.65	9.85
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/05/75-12/16/75	14	3.6	3.426	6.9	0.035	4.786	2.188	0.08	1.865	5.05	6.65

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

EPA Water Quality Criteria Analysis for Station: BICA0021

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	14	0	0.00	9	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

Station Inventory for Station: BICA0022

NPS Station ID: BICA0022
LAT/LON: 44.850004/-108.384170
Agency: 11NPSWRD
Date Created: 11/01/97
Location: SHOSHONE RIVER NR LOVELL WY
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_WRDS_8 /WRDS-03318:0
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080014
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 6800
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080014
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
The Environmental Protection Agency collected the data stored at this station. The Wyoming Water Resources Center entered these data into the Wyoming Water Resources Data System (WRDS) which is a clearinghouse of hydrological and climatological data for the State of Wyoming. WRDS can be accessed on-line at: WWW-WWRC.UWYO.EDU/WRDS. WRDS staff can be contacted at PO Box 3067 Laramie WY 82071-3067; Tel. 307-766-6651; Fax. 307-766-3785; E-Mail: WRDS@UWYO.EDU. This was one of 9 stations for Bighorn Canyon NRA that were uploaded to STORET from the WRDS. These data are locked in STORET (can't be accessed without the NPS Unlocking Key) so the Wyoming Water Resources Center doesn't provide duplicative data to its clients (from STORET & WRDS). The station is located on the Lovell WY 7.5' USGS topographic quadrangle. The data were uploaded to STORET by Dean Tucker; National Park Service Water Resources Division; 1201 Oak Ridge Drive Suite 250; Fort Collins CO 80525 (tel. 970-225-3516).

Parameter Inventory for Station: BICA0022

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	02/03/75-02/05/76	6	0.403	138.97	825.	0.006	112962.846	336.099	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/03/75-01/14/76	6 ##	0.026	0.033	0.083	0.013	0.001	0.028	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/03/75-02/05/76	7	6.6	6.429	12.	1.4	10.122	3.182	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/03/75-02/05/76	7	0.3	0.303	0.5	0.02	0.021	0.146	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/03/75-02/05/76	7	0.25	0.279	0.6	0.05	0.044	0.211	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/03/75-01/14/76	5	0.067	0.074	0.11	0.05	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 time series plot

EPA Water Quality Criteria Analysis for Station: BICA0022

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	7	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

Station Inventory for Station: BICA0023

NPS Station ID: BICA0023 LAT/LON: 44.850892/-108.387449 Agency: 11NPSWRD Date Created: 12/20/97
Location: SHOSHONE RIVER 1/2 MILE NORTH OF LOVELL WYOMING FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): BICA_CSU_SHOSH
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10080014 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080014 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE LOVELL WYOMING-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON THE SHOESHONE RIVER APPROXIMATELY 1/2 MILE NORTH OF LOVELL WYOMING. SAMPLES FOR THIS SITE WERE COLLECTED FROM JUNE 1980 TO APRIL 1981. SAMPLES WERE ANALYZED FOR TEMPERATURE; PH; SPECIFIC CONDUCTANCE; TURBIDITY; SOLUBLE ORTHOPHOSPHATE; TOTAL PHOSPHATE; TOTAL AMMONIA; NITRATE; AND ALKALINITY. THE RESULTS WERE PUBLISHED IN THE REPORT "EVALUATION OF WATER QUALITY AND RATE OF SEDIMENTATION IN BIGHORN LAKE; BIGHORN CANYON NATIONAL RECREATION AREA" BY G. FRED LEE AND R. ANNE JONES (COLORADO STATE UNIVERSITY; DECEMBER 1981). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/09/80-04/01/81	11	11.	9.273	17.	-1.	55.218	7.431	2.4	6.	17.	17.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/09/80-11/26/80	8	761.	773.375	966.	483.	21883.696	147.931	**	**	**	**
00400	PH (STANDARD UNITS)	06/09/80-04/01/81	10	7.9	7.8	8.1	7.2	0.129	0.359	7.2	7.5	8.1	8.1
00400	CONVERTED PH (STANDARD UNITS)	06/09/80-04/01/81	10	7.889	7.648	8.1	7.2	0.154	0.393	7.2	7.5	8.1	8.1
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/09/80-04/01/81	10	0.013	0.022	0.063	0.008	0.	0.022	0.008	0.008	0.035	0.063
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/09/80-10/16/80	7	190.	191.429	224.	159.	451.952	21.259	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/09/80-10/16/80	7	0.051	0.054	0.093	0.018	0.001	0.03	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/09/80-08/06/80	4	0.84	0.925	1.4	0.62	0.128	0.358	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/09/80-08/06/80	4	0.26	0.263	0.3	0.23	0.001	0.033	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/09/80-04/01/81	12	0.024	0.029	0.057	0.007	0.	0.016	0.008	0.016	0.044	0.055
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	06/09/80-11/26/80	9	63.	319.778	2400.	10.	609777.444	780.882	10.	32.	110.	2400.

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

EPA Water Quality Criteria Analysis for Station: BICA0023

			Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400 PH	Fresh Chronic	9.	10	0	0.00	6	0	0.00	1	0	0.00	3	0	0.00			
	Other-Lo Lim.	6.5	10	0	0.00	6	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: BICA0023

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	4	0	0.00				1	0	0.00	3	0	0.00			
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	9	6	0.67	5	3	0.60	1	1	1.00	3	2	0.67			

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

Station Inventory for Station: BICA0024

NPS Station ID: BICA0024
LAT/LON: 44.853615/-108.175281
Agency: 112WRD
Date Created: 05/18/77
Location: BIGHORN R AT BIGHORN LAKE NR KAN
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 445113108103100
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10080010039
RF1 Mile Point: 0.910
Distance from RF1: 3.30
On/Off RF1: ON
RF3 Index: 10080010019400.00
RF3 Mile Point: 0.75
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: BICA0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/17/76-09/17/76	1	976.	976.	976.	976.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: BICA0025

NPS Station ID: BICA0025
LAT/LON: 44.858337/-108.330559
Agency: 11EPALES
Date Created: / /
Location: SHOSHONE RIVER
FIPS State/County: 56000 WYOMING/
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 5614B1
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080014
Depth of Water: 0
Aquifer:
Major Basin: T/YELLOWTAIL RESERVOIR
Elevation: 0
Water Body Id:
Minor Basin: BRDG .3 MI N OF XING W CHI,BUR,QY RR
ECO Region:
RF1 Index: 10080014059
RF1 Mile Point: 0.240
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 10080010004201.12
RF3 Mile Point: 1.11
Distance from RF3: 0.01
On/Off RF3:
Description:
BRDG SAMPLE ON MEDIUM DUTY RD .3 MI N OF INTERSECTION W CHICAGO BURLINGTON AND QUINCY RR SEC 5/6 R95W T56N

Parameter Inventory for Station: BICA0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/05/74-09/10/75	13	0.06	0.068	0.135	0.025	0.001	0.036	0.027	0.03	0.1	0.125
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/05/74-10/05/74	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/05/74-11/10/74	2	0.578	0.578	0.74	0.416	0.052	0.229	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/05/74-09/10/75	13	1.45	1.388	2.1	0.5	0.283	0.532	0.6	0.925	2.	2.06
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/05/74-09/10/75	13	0.75	0.693	0.94	0.28	0.048	0.219	0.32	0.5	0.89	0.936
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/74-09/10/75	13	0.29	0.413	1.25	0.07	0.128	0.358	0.076	0.163	0.617	1.102
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/05/74-09/10/75	13	0.035	0.044	0.088	0.015	0.	0.022	0.015	0.028	0.06	0.081

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

EPA Water Quality Criteria Analysis for Station: BICA0025

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------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.	1	0	0.00	1	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.	13	0	0.00	7	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: BICA0026

NPS Station ID: BICA0026
LAT/LON: 44.858616/-108.331116
Agency: 112WRD
Date Created: / /
Location: SHOSHONE RIVER AT KANE, WY
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 06286200
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080014
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10080014
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10080014001600.00
RF3 Mile Point: 1.20
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/59-08/23/89	82	13.	11.717	25.5	0.	50.556	7.11	0.	4.5	17.05	20.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	12/17/81-08/23/89	42	17.5	13.56	35.	-25.	195.161	13.97	4.	9.375	26.875	33.95
00025	BAROMETRIC PRESSURE (MM OF HG)	10/04/82-08/23/89	36	665.5	665.611	710.	633.	164.759	12.836	651.	658.25	673.75	680.
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/59-09/16/68	173	921.	1225.075	10400.	241.	1805735.058	1343.776	490.	678.	1200.	1692.
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/20/58-08/23/89	108	670.5	944.565	5600.	150.	786327.818	886.751	329.8	430.5	1105.	1702.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/10/82-09/08/83	16	37.5	62.969	285.	7.	5509.349	74.225	8.05	11.25	97.5	183.5
00080	COLOR (PLATINUM-COBALT UNITS)	08/20/58-05/12/66	112	5.	6.563	90.	1.	81.996	9.055	2.	4.	7.	9.7
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/58-08/23/89	206	1090.	1100.223	2540.	312.	104407.921	323.122	769.8	945.25	1242.5	1513.
00300	OXYGEN, DISSOLVED MG/L	02/10/82-08/23/89	42	10.2	10.255	13.2	6.7	2.813	1.677	7.99	8.875	11.525	12.84
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	10/04/82-06/06/83	7	98.	100.071	117.	89.	103.369	10.167	**	**	**	**
00400p	PH (STANDARD UNITS)	08/20/58-08/23/89	206	7.7	7.773	8.5	7.	0.114	0.338	7.3	7.5	8.	8.2
00400p	CONVERTED PH (STANDARD UNITS)	08/20/58-08/23/89	206	7.7	7.648	8.5	7.	0.13	0.361	7.3	7.5	8.	8.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/58-08/23/89	206	0.02	0.022	0.1	0.003	0.	0.018	0.006	0.01	0.032	0.05
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/65-09/16/68	63	187.	191.429	239.	100.	618.023	24.86	165.8	176.	212.	227.2
00440	BICARBONATE ION (MG/L AS HCO3)	08/20/58-09/16/68	162	234.	242.691	450.	113.	2510.165	50.102	196.9	219.	270.	299.7
00445	CARBONATE ION (MG/L AS CO3)	10/01/59-09/16/68	149	0.	0.047	7.	0.	0.329	0.573	0.	0.	0.	0.
00600	NITROGEN, TOTAL (MG/L AS N)	12/02/80-03/21/83	16	1.65	1.806	3.5	1.1	0.538	0.733	1.1	1.225	2.475	3.01
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	12/02/80-03/21/83	15	0.68	0.899	2.3	0.45	0.278	0.527	0.462	0.54	1.2	1.88
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/02/80-08/23/89	45	0.1	0.104	0.35	0.02	0.003	0.056	0.042	0.065	0.13	0.144
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	02/10/82-02/10/82	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	12/02/80-08/23/89	45	0.8	1.014	6.8	0.1	0.981	0.99	0.4	0.6	1.2	1.64
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/02/80-08/23/89	45	1.	0.922	1.7	0.1	0.146	0.382	0.36	0.675	1.2	1.4
00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/02/80-08/23/89	45	0.1	0.24	4.2	0.02	0.383	0.619	0.03	0.05	0.215	0.398
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/20/58-09/16/68	162	354.5	365.352	794.	117.	11078.714	105.255	270.3	309.75	409.	478.7
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/20/58-09/16/68	162	159.	166.827	456.	17.	4874.603	69.818	100.9	131.5	189.	261.4
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/20/58-09/16/68	162	89.5	92.34	185.	31.	698.474	26.429	66.3	81.	104.	120.4
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/20/58-09/16/68	162	32.	32.865	81.	6.	126.905	11.265	21.	27.	38.	45.
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/20/58-09/16/68	162	115.	118.29	288.	23.	1679.772	40.985	77.3	96.5	136.25	172.1
00931	SODIUM ADSORPTION RATIO	08/20/58-09/16/68	162	2.6	2.652	4.7	0.9	0.381	0.617	1.9	2.275	3.	3.5
00932	SODIUM, PERCENT	08/20/58-09/16/68	76	41.	40.592	48.	30.	20.485	4.526	35.	36.25	44.	46.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/20/58-09/16/68	162	3.9	4.095	8.7	1.	1.559	1.249	2.8	3.4	4.6	5.57
00940	CHLORIDE,TOTAL IN WATER MG/L	08/20/58-09/16/68	162	11.	12.364	32.	2.	23.997	4.899	8.	10.	15.	19.
00945	SULFATE, TOTAL (MG/L AS SO4)	08/20/58-09/16/68	162	371.	390.296	990.	59.	21228.818	145.701	240.3	319.	437.	594.4
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/20/58-09/16/68	162	0.6	0.596	1.2	0.2	0.023	0.153	0.4	0.5	0.7	0.8
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/20/58-09/16/68	162	16.	15.693	22.	5.2	3.468	1.862	14.	15.	17.	18.
01020	BORON, DISSOLVED (UG/L AS B)	08/20/58-09/16/68	162	180.	197.593	500.	30.	6485.473	80.532	110.	150.	230.	320.
01045	IRON, TOTAL (UG/L AS FE)	08/20/58-04/05/68	49	10.	13.061	120.	0.	480.017	21.909	0.	0.	10.	20.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	02/08/89-08/23/89	3	2.	2.	2.	2.	0.	0.	**	**	**	**

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Parameter Inventory for Station: BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/10/82-08/23/89	42	340.	431.357	1230.	10.	110250.528	332.04	61.5	163.75	700.	958.
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	02/10/82-08/23/89	42	2.531	2.465	3.09	1.	0.206	0.454	1.789	2.214	2.845	2.981
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			291.546								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/05/62-09/01/66	53	6000.	6654.717	35000.	1000.	25245217.707	5024.462	2000.	4000.	7750.	8600.
34609	2,4-DIMETHYLPHENOL DRY WGTBOTUG/KG	10/24/79-09/04/80	3	0.	0.	0.	0.	0.	0.	**	**	**	**
39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	10/25/78-09/04/80	5	0.	0.	0.	0.	0.	0.	**	**	**	**
39250	NAPTHALENES, POLYCHLORINATED (UG/L)	09/23/76-09/04/80	7	0.	0.	0.	0.	0.	0.	**	**	**	**
39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	10/24/79-09/04/80	3	0.	0.	0.	0.	0.	0.	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/23/76-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	09/23/76-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	09/23/76-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	09/23/76-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	09/23/76-09/04/80	9	0.	0.111	1.	0.	0.111	0.333	0.	0.	0.	1.
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/23/76-09/04/80	9	0.	0.233	1.7	0.	0.307	0.555	0.	0.	0.15	1.7
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/23/76-09/04/80	9	0.1	0.133	0.5	0.	0.023	0.15	0.	0.05	0.15	0.5
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/23/76-09/04/80	9	0.	0.178	1.4	0.	0.212	0.46	0.	0.	0.1	1.4
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	09/23/76-09/04/80	9	0.	0.033	0.1	0.	0.003	0.05	0.	0.	0.1	0.1
39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	06/08/77-09/04/80	8	0.	0.	0.	0.	0.	0.	**	**	**	**
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/24/79-09/04/80	3	0.	0.	0.	0.	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	09/23/76-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	09/23/76-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	09/23/76-09/04/80	9	0.	0.011	0.1	0.	0.001	0.033	0.	0.	0.	0.1
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	09/23/76-09/04/80	9	0.	0.011	0.1	0.	0.001	0.033	0.	0.	0.	0.1
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	10/24/79-09/04/80	3	0.	0.	0.	0.	0.	0.	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	10/24/79-09/04/80	3	0.	0.	0.	0.	0.	0.	**	**	**	**
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	09/23/76-09/04/80	9	0.	0.111	1.	0.	0.111	0.333	0.	0.	0.	1.
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	9	0.	0.001	0.01	0.	0.	0.003	0.	0.	0.	0.01
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	9	0.01	0.301	1.4	0.	0.324	0.569	0.	0.	0.625	1.4
39731	2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/11/78-09/04/80	6	0.	0.	0.	0.	0.	0.	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	9	0.	0.001	0.01	0.	0.	0.003	0.	0.	0.	0.01
39741	2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/11/78-09/04/80	6	0.	0.	0.	0.	0.	0.	**	**	**	**
39755	MIREX, TOTAL (UG/L)	10/25/78-09/04/80	5	0.	0.	0.	0.	0.	0.	**	**	**	**
39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	10/24/79-09/04/80	3	0.	0.	0.	0.	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39761	SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/11/78-09/04/80	6	0.	0.	0.	0.	0.	0.	**	**	**	**
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	09/23/76-09/04/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/20/58-09/16/68	162	783.5	815.765	1840.	196.	67185.622	259.202	555.6	684.	912.75	1167.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/03/58-09/16/68	37	720.	831.676	1730.	517.	86931.836	294.842	557.6	640.5	923.5	1200.
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/20/58-09/16/68	162	1930.005	2146.404	10590.1	737.	1214356.564	1101.978	1213.01	1505.01	2442.508	3160.003
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/20/58-09/16/68	162	1.065	1.11	2.51	0.27	0.124	0.353	0.756	0.93	1.24	1.587
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/01/59-09/12/61	22	85.5	78.773	98.	36.	347.803	18.649	51.	61.	95.	97.7
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	10/01/59-09/12/61	22	95.	88.455	100.	66.	145.879	12.078	69.9	74.	98.	99.
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	10/01/59-09/12/61	21	99.	97.143	100.	89.	13.529	3.678	89.6	94.5	100.	100.
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	10/01/59-05/19/61	13	100.	99.846	100.	99.	0.141	0.376	99.	100.	100.	100.
70335	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM	11/05/59-11/30/59	2	100.	100.	100.	100.	0.	0.	**	**	**	**
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	10/01/59-10/07/60	10	20.5	25.6	53.	11.	202.267	14.222	11.1	15.	34.5	52.2
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/01/59-07/02/64	25	40.	39.8	71.	17.	243.667	15.61	17.6	27.	48.	63.6
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/01/59-07/02/64	25	62.	58.36	91.	27.	393.657	19.841	28.6	41.5	75.5	85.8

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Parameter Inventory for Station: BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/01/59-07/02/64	25	85.	79.16	98.	36.	319.807	17.883	51.	64.	95.	97.4
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/01/59-07/02/64	25	95.	89.12	100.	66.	132.11	11.494	70.8	75.	98.	99.
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	10/01/59-07/02/64	24	99.	97.292	100.	89.	12.303	3.507	90.5	95.25	100.	100.
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	10/01/59-07/02/64	15	100.	99.867	100.	99.	0.124	0.352	99.	100.	100.	100.
70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	11/05/59-11/30/59	2	100.	100.	100.	100.	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/10/82-02/10/82	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	12/02/80-12/02/80	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	10/01/64-09/21/65	27	1.8	1.781	2.5	0.9	0.207	0.455	0.9	1.7	2.	2.42
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	08/20/58-09/09/62	47	4.4	4.202	8.6	0.1	3.131	1.769	1.6	3.2	5.3	6.24
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/30/59-09/16/68	148	3.	3.097	6.7	0.1	2.519	1.587	1.	2.	4.175	5.21
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	10/01/64-09/21/65	25	5.	4.72	9.	1.	8.793	2.965	1.	1.5	8.	8.4
71870	BROMIDE (MG/L AS BR)	11/04/63-09/21/65	38	0.395	0.393	0.45	0.33	0.001	0.033	0.349	0.368	0.42	0.44
71885	IRON (UG/L AS FE)	11/30/59-07/03/67	88	10.	22.841	180.	0.	1432.066	37.843	0.	0.	20.	90.
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	12/02/80-10/16/85	27	0.4	0.548	1.9	0.06	0.236	0.486	0.09	0.15	0.74	1.4
71887	NITROGEN, TOTAL, AS NO3 - MG/L	12/02/80-03/21/83	16	7.2	7.975	16.	4.6	11.445	3.383	4.6	5.35	11.325	13.2
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/59-07/02/64	25	657.	1571.32	9970.	240.	4702592.06	2168.546	305.4	496.5	1520.	4678.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/59-07/02/64	25	1980.	8566.08	74900.	353.	370176440.827	19239.97	432.4	750.	4605.	42680.
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	10/24/79-09/04/80	3	0.	0.	0.	0.	0.	0.	**	**	**	**
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	10/24/79-09/04/80	3	0.	0.003	0.01	0.	0.	0.006	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: BICA0026

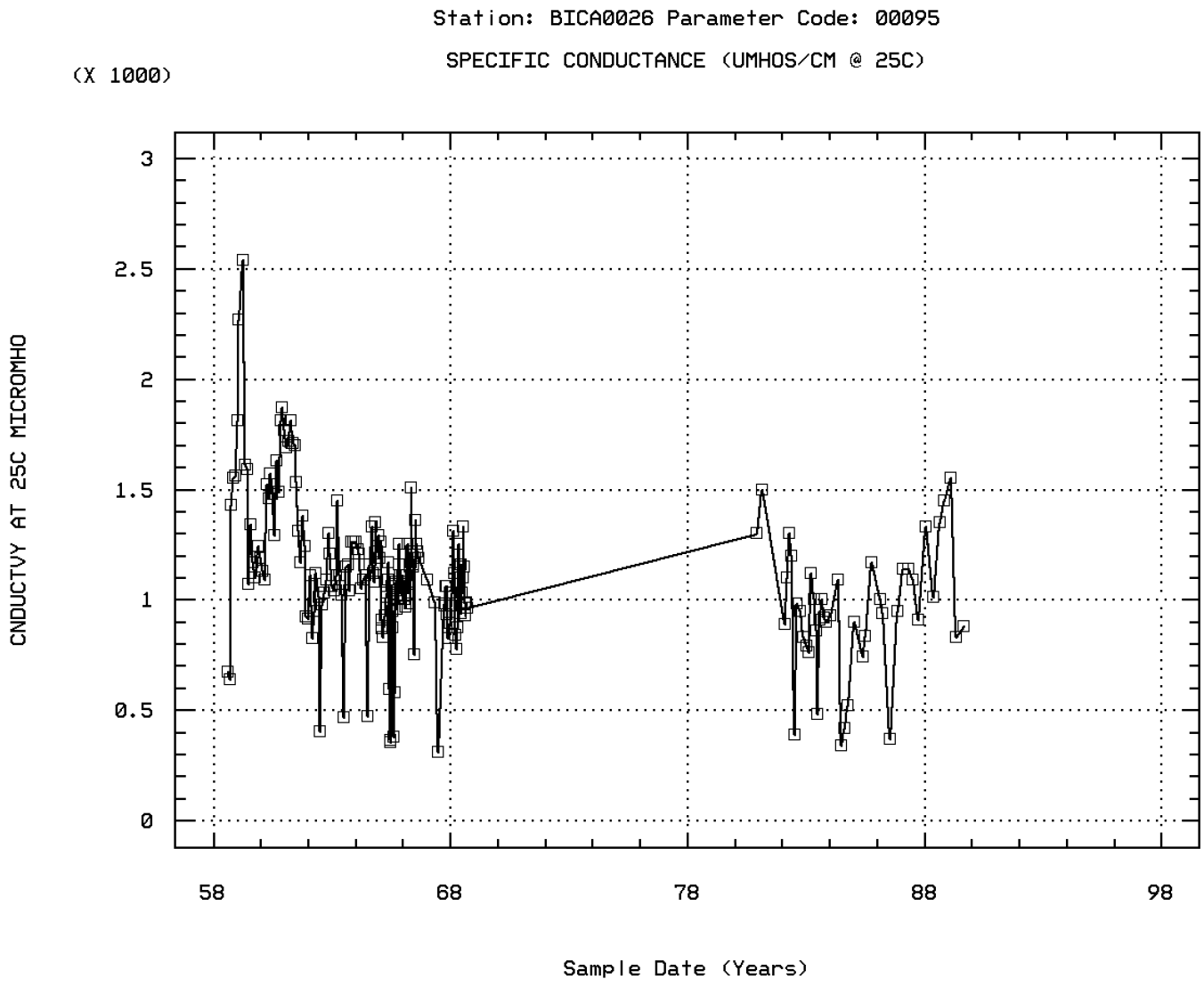
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	16	8	0.50	10	2	0.20	3	3	1.00	3	3	1.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	42	0	0.00	27	0	0.00	8	0	0.00	7	0	0.00			
00400	PH	Fresh Chronic	9.	206	0	0.00	134	0	0.00	38	0	0.00	34	0	0.00			
		Other-Lo Lim.	6.5	206	0	0.00	134	0	0.00	38	0	0.00	34	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.	45	0	0.00	30	0	0.00	8	0	0.00	7	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	162	0	0.00	105	0	0.00	30	0	0.00	27	0	0.00			
		Drinking Water	250.	162	0	0.00	105	0	0.00	30	0	0.00	27	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	162	143	0.88	105	94	0.90	30	29	0.97	27	20	0.74			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	162	0	0.00	105	0	0.00	30	0	0.00	27	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	50.	3	0	0.00	2	0	0.00	1	0	0.00						
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	42	30	0.71	27	16	0.59	8	7	0.88	7	7	1.00			
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	9	0	0.00	5	0	0.00	4	0	0.00						
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	9	0	0.00	5	0	0.00	4	0	0.00						
		Drinking Water	0.2	9	0	0.00	5	0	0.00	4	0	0.00						
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	9	0	0.00	5	0	0.00	4	0	0.00						
		Drinking Water	2.	9	0	0.00	5	0	0.00	4	0	0.00						
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	9	0	0.00	5	0	0.00	4	0	0.00						
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	9	0	0.00	5	0	0.00	4	0	0.00						
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	9	0	0.00	5	0	0.00	4	0	0.00						
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	9	0	0.00	5	0	0.00	4	0	0.00						
39388	ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute	0.22	8	0	0.00	4	0	0.00	4	0	0.00						
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	9	0	0.00	5	0	0.00	4	0	0.00						
		Drinking Water	2.	9	0	0.00	5	0	0.00	4	0	0.00						
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	9	0	0.00	5	0	0.00	4	0	0.00						
		Drinking Water	3.	9	0	0.00	5	0	0.00	4	0	0.00						
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	9	0	0.00	5	0	0.00	4	0	0.00						
		Drinking Water	0.4	9	0	0.00	5	0	0.00	4	0	0.00						
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	9	0	0.00	5	0	0.00	4	0	0.00						
		Drinking Water	0.2	9	0	0.00	5	0	0.00	4	0	0.00						
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	3	0	0.00	2	0	0.00	1	0	0.00						
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	9	0	0.00	5	0	0.00	4	0	0.00						
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	9	0	0.00	5	0	0.00	4	0	0.00						

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

EPA Water Quality Criteria Analysis for Station: BICA0026

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
39760	SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	9	0	0.00	5	0	0.00	4	0	0.00						
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	47	0	0.00	31	0	0.00	8	0	0.00	8	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	148	0	0.00	95	0	0.00	28	0	0.00	25	0	0.00			
71856	NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	25	15	0.60	17	10	0.59	4	1	0.25	4	4	1.00			

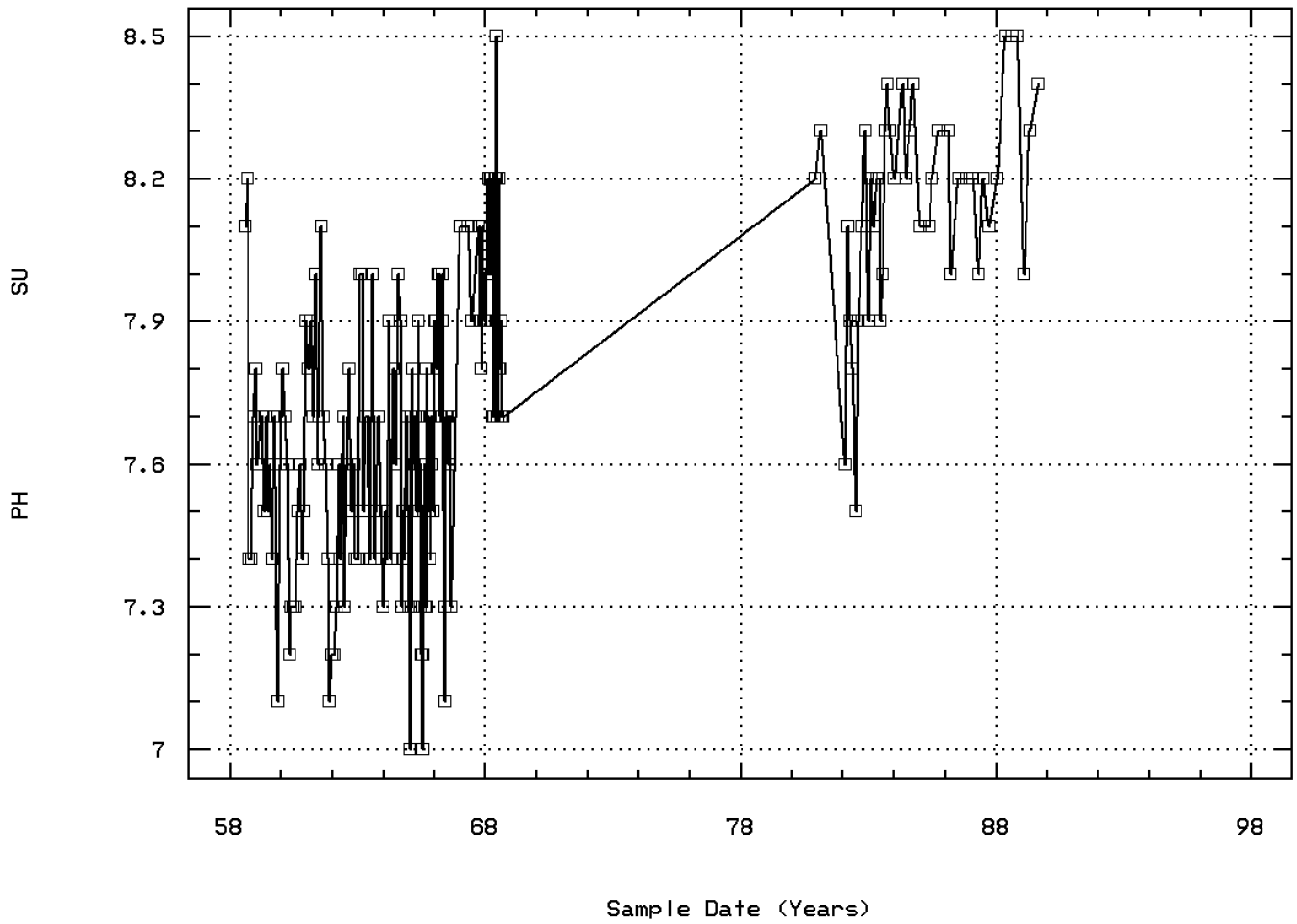
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter



SHOSHONE RIVER AT KANE, WY

Station: BICA0026 Parameter Code: 00400

PH (STANDARD UNITS)



SHOSHONE RIVER AT KANE, WY

Annual Analysis for 1958 - Station BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/20/58-08/23/89	5	792.	1723.2	3300.	610.	1863457.2	1365.085	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	08/20/58-05/12/66	5	5.	4.4	7.	1.	5.8	2.408	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/58-08/23/89	5	1430.	1170.6	1560.	640.	223001.8	472.231	**	**	**	**
00400	PH (STANDARD UNITS)	08/20/58-08/23/89	5	7.7	7.76	8.2	7.4	0.143	0.378	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/20/58-08/23/89	5	7.7	7.643	8.2	7.4	0.16	0.4	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/58-08/23/89	5	0.02	0.023	0.04	0.006	0.	0.016	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/20/58-09/16/68	5	271.	253.8	356.	166.	6659.2	81.604	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/20/58-09/16/68	5	442.	378.	538.	194.	28412.5	168.56	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/20/58-09/16/68	5	220.	170.	269.	57.	10847.5	104.151	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/20/58-09/16/68	5	108.	94.8	138.	50.	1676.7	40.948	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/20/58-09/16/68	5	42.	34.4	49.	17.	258.8	16.087	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/20/58-09/16/68	5	157.	123.2	168.	63.	2985.7	54.642	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/20/58-09/16/68	5	3.1	2.7	3.3	2.	0.415	0.644	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/20/58-09/16/68	5	4.6	4.32	5.6	2.8	1.852	1.361	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/20/58-09/16/68	5	12.	11.4	16.	6.	22.8	4.775	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/20/58-09/16/68	5	530.	410.6	572.	188.	40842.8	202.096	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/20/58-09/16/68	5	0.5	0.56	0.7	0.5	0.008	0.089	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/20/58-09/16/68	5	15.	16.	19.	15.	3.	1.732	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/20/58-09/16/68	5	240.	212.	320.	100.	10370.	101.833	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/20/58-04/05/68	5	10.	8.	20.	0.	70.	8.367	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/20/58-09/16/68	5	1060.	856.	1170.	438.	142642.	377.68	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/20/58-09/16/68	5	2450.	2876.	4030.	1930.	863580.	929.29	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/20/58-09/16/68	5	1.44	1.164	1.59	0.6	0.264	0.514	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	08/20/58-09/09/62	5	3.3	3.72	5.3	1.9	1.832	1.354	**	**	**	**

** - 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 box-and-whisker plot

Annual Analysis for 1959 - Station BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/59-09/16/68	4	992.	1115.25	1520.	957.	73124.917	270.416	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/20/58-08/23/89	13	957.	814.615	1520.	150.	219461.423	468.467	186.8	339.5	1170.	1516.
00080	COLOR (PLATINUM-COBALT UNITS)	08/20/58-05/12/66	10	5.5	7.1	18.	3.	20.989	4.581	3.1	4.	8.25	17.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/58-08/23/89	10	1465.	1574.	2540.	1070.	253671.111	503.658	1073.	1152.5	1925.	2513.
00400	PH (STANDARD UNITS)	08/20/58-08/23/89	10	7.6	7.56	7.8	7.1	0.04	0.201	7.13	7.475	7.7	7.79
00400	CONVERTED PH (STANDARD UNITS)	08/20/58-08/23/89	10	7.6	7.511	7.8	7.1	0.043	0.208	7.13	7.475	7.7	7.79
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/58-08/23/89	10	0.025	0.031	0.079	0.016	0.	0.019	0.016	0.02	0.034	0.075
00440	BICARBONATE ION (MG/L AS HCO3)	08/20/58-09/16/68	10	267.	290.7	450.	209.	6588.233	81.168	211.	231.25	349.	446.2
00445	CARBONATE ION (MG/L AS CO3)	10/01/59-09/16/68	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/20/58-09/16/68	10	440.	495.2	794.	310.	29937.733	173.025	312.9	350.25	692.5	785.8
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/20/58-09/16/68	10	227.	256.9	456.	139.	13291.656	115.289	140.2	160.75	348.5	454.7
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/20/58-09/16/68	10	106.	120.2	185.	81.	1435.511	37.888	81.4	88.75	158.5	184.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/20/58-09/16/68	10	40.5	47.5	81.	26.	400.278	20.007	26.5	31.	65.75	80.9
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/20/58-09/16/68	10	164.5	174.8	288.	117.	3702.4	60.847	117.3	125.25	207.	286.2
00931	SODIUM ADSORPTION RATIO	08/20/58-09/16/68	10	3.2	3.4	4.7	2.7	0.418	0.646	2.71	2.95	3.825	4.65
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/20/58-09/16/68	10	4.3	5.28	8.7	3.7	3.891	1.972	3.7	3.7	7.55	8.63
00940	CHLORIDE,TOTAL IN WATER MG/L	08/20/58-09/16/68	10	14.	17.1	32.	9.	71.211	8.439	9.1	10.	22.75	31.9
00945	SULFATE, TOTAL (MG/L AS SO4)	08/20/58-09/16/68	10	560.5	596.2	990.	369.	46861.511	216.475	371.2	422.5	723.5	983.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/20/58-09/16/68	10	0.65	0.72	1.1	0.5	0.042	0.204	0.5	0.575	0.85	1.09
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/20/58-09/16/68	10	16.	16.4	22.	13.	5.822	2.413	13.2	15.	17.25	21.6
01020	BORON, DISSOLVED (UG/L AS B)	08/20/58-09/16/68	10	275.	313.	500.	170.	13534.444	116.338	173.	207.5	435.	495.
01045	IRON, TOTAL (UG/L AS FE)	08/20/58-04/05/68	10	10.	7.	20.	0.	45.556	6.749	0.	0.	10.	19.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/20/58-09/16/68	10	1094.	1177.3	1840.	760.	162369.344	402.951	762.2	833.	1520.	1838.
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/20/58-09/16/68	10	1915.	1885.701	3190.	737.	725615.021	851.83	772.3	1112.5	2572.5	3144.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/20/58-09/16/68	10	1.485	1.602	2.51	1.03	0.303	0.551	1.033	1.135	2.068	2.507
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	08/20/58-09/09/62	10	5.25	4.62	8.6	1.	6.431	2.536	1.06	1.675	6.075	8.49
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/30/59-09/16/68	1	4.1	4.1	4.1	4.1	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 1959 - Station BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71885	IRON (UG/L AS FE)	11/30/59-07/03/67	1	10.	10.	10.	10.	0.	0.	**	**	**	**

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

Annual Analysis for 1960 - Station BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/59-09/16/68	27	680.	735.852	1720.	328.	123059.9	350.799	333.4	470.	900.	1240.
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/20/58-08/23/89	24	673.	721.167	1720.	328.	125039.536	353.609	332.5	475.	871.5	1300.
00080	COLOR (PLATINUM-COBALT UNITS)	08/20/58-05/12/66	12	7.	14.667	90.	4.	578.242	24.047	4.3	6.	10.25	68.7
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/58-08/23/89	12	1485.	1460.833	1870.	1090.	62190.152	249.38	1102.	1215.	1615.	1852.
00400	PH (STANDARD UNITS)	08/20/58-08/23/89	12	7.5	7.483	7.8	7.2	0.034	0.185	7.23	7.3	7.6	7.77
00400	CONVERTED PH (STANDARD UNITS)	08/20/58-08/23/89	12	7.5	7.448	7.8	7.2	0.036	0.189	7.23	7.3	7.6	7.77
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/58-08/23/89	12	0.032	0.036	0.063	0.016	0.	0.015	0.017	0.025	0.05	0.059
00440	BICARBONATE ION (MG/L AS HCO3)	08/20/58-09/16/68	12	272.5	278.917	362.	237.	1337.356	36.57	240.6	254.25	288.	354.5
00445	CARBONATE ION (MG/L AS CO3)	10/01/59-09/16/68	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/20/58-09/16/68	12	446.5	466.25	623.	385.	6068.568	77.901	386.5	397.	496.5	616.7
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/20/58-09/16/68	12	241.	237.583	326.	159.	3337.72	57.773	159.3	181.75	274.	326.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/20/58-09/16/68	12	110.	118.667	184.	102.	548.061	23.411	102.3	104.5	123.5	171.1
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/20/58-09/16/68	12	40.5	41.333	61.	32.	70.788	8.414	32.	33.	44.75	57.7
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/20/58-09/16/68	12	167.	160.083	204.	101.	1260.083	35.498	103.4	123.	191.25	202.8
00931	SODIUM ADSORPTION RATIO	08/20/58-09/16/68	12	3.4	3.208	3.8	2.2	0.288	0.537	2.26	2.675	3.575	3.77
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/20/58-09/16/68	12	4.45	4.667	7.1	3.3	1.193	1.092	3.42	3.9	5.475	6.77
00940	CHLORIDE,TOTAL IN WATER MG/L	08/20/58-09/16/68	12	15.5	15.917	22.	12.	10.629	3.26	12.3	13.	19.25	21.4
00945	SULFATE, TOTAL (MG/L AS SO4)	08/20/58-09/16/68	12	570.5	547.167	727.	345.	15967.606	126.363	355.2	412.75	648.5	718.3
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/20/58-09/16/68	12	0.7	0.658	0.8	0.4	0.015	0.124	0.43	0.6	0.775	0.8
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/20/58-09/16/68	12	15.	15.333	19.	11.	4.242	2.06	11.9	14.	17.	18.4
01020	BORON, DISSOLVED (UG/L AS B)	08/20/58-09/16/68	12	255.	264.167	380.	200.	3062.879	55.343	203.	222.5	290.	371.
01045	IRON, TOTAL (UG/L AS FE)	08/20/58-04/05/68	11	10.	10.909	20.	0.	69.091	8.312	0.	0.	20.	20.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/20/58-09/16/68	12	1115.	1089.25	1420.	762.	44480.75	210.905	774.9	883.	1225.	1408.
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/20/58-09/16/68	12	1780.01	1891.176	2780.01	974.	283341.637	532.298	1119.803	1512.51	2297.51	2729.01
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/20/58-09/16/68	12	1.52	1.482	1.93	1.04	0.082	0.287	1.055	1.203	1.668	1.915
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	08/20/58-09/09/62	11	4.4	3.918	6.7	0.1	3.136	1.771	0.48	3.2	5.2	6.44
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/30/59-09/16/68	12	4.	3.85	6.7	0.1	2.906	1.705	0.67	3.125	5.025	6.31
71885	IRON (UG/L AS FE)	11/30/59-07/03/67	12	10.	10.	20.	0.	72.727	8.528	0.	0.	20.	20.

** - Less than 9 observations ## - Computed with 50% or 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 BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/59-09/16/68	16	697.	825.375	2780.	241.	422853.05	650.272	259.9	347.25	1142.5	1856.
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/20/58-08/23/89	13	840.	894.308	2780.	241.	494239.731	703.022	251.8	337.5	1225.	2252.
00080	COLOR (PLATINUM-COBALT UNITS)	08/20/58-05/12/66	11	4.	5.273	9.	2.	5.418	2.328	2.2	4.	8.	8.8
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/58-08/23/89	12	1610.	1496.	1810.	922.	81762.909	285.942	996.4	1257.5	1717.5	1798.
00400	PH (STANDARD UNITS)	08/20/58-08/23/89	12	7.7	7.708	8.1	7.1	0.074	0.271	7.19	7.6	7.9	8.07
00400	CONVERTED PH (STANDARD UNITS)	08/20/58-08/23/89	12	7.7	7.619	8.1	7.1	0.082	0.287	7.19	7.6	7.9	8.07
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/58-08/23/89	12	0.02	0.024	0.079	0.008	0.	0.019	0.009	0.013	0.025	0.068
00440	BICARBONATE ION (MG/L AS HCO3)	08/20/58-09/16/68	12	266.5	277.25	383.	221.	2147.477	46.341	226.1	240.25	298.75	369.5
00445	CARBONATE ION (MG/L AS CO3)	10/01/59-09/16/68	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/20/58-09/16/68	12	490.5	479.5	623.	308.	9480.273	97.367	328.1	399.75	561.75	612.5
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/20/58-09/16/68	12	276.	252.25	344.	127.	4677.841	68.395	142.3	190.75	308.	333.5
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/20/58-09/16/68	12	123.5	122.917	178.	81.	766.447	27.685	85.5	100.75	139.5	169.6
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/20/58-09/16/68	12	43.5	42.167	62.	26.	80.515	8.973	28.1	36.25	46.25	58.1
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/20/58-09/16/68	12	167.	163.083	215.	88.	1250.265	35.359	100.3	136.5	194.5	210.5

** - 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 1961 - Station BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00931	SODIUM ADSORPTION RATIO	08/20/58-09/16/68	12	3.25	3.225	3.8	2.2	0.22	0.469	2.41	2.925	3.7	3.8
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/20/58-09/16/68	12	4.75	5.142	7.3	3.	2.706	1.645	3.	3.85	7.1	7.3
00940	CHLORIDE,TOTAL IN WATER MG/L	08/20/58-09/16/68	12	15.5	16.917	28.	10.	32.083	5.664	10.3	12.	21.5	26.5
00945	SULFATE, TOTAL (MG/L AS SO4)	08/20/58-09/16/68	12	598.5	564.417	745.	284.	18354.265	135.478	329.9	455.25	670.75	737.5
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/20/58-09/16/68	12	0.6	0.65	0.9	0.4	0.015	0.124	0.46	0.6	0.7	0.87
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/20/58-09/16/68	12	15.5	15.583	19.	10.	4.992	2.234	11.2	15.	17.	18.4
01020	BORON, DISSOLVED (UG/L AS B)	08/20/58-09/16/68	12	325.	311.667	410.	150.	4887.879	69.913	171.	285.	350.	401.
01045	IRON, TOTAL (UG/L AS FE)	08/20/58-04/05/68	12	10.	7.5	20.	0.	56.818	7.538	0.	0.	10.	20.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/20/58-09/16/68	12	1190.	1119.25	1420.	642.	55970.75	236.581	714.	914.75	1317.5	1393.
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/20/58-09/16/68	12	1745.01	1880.426	3550.01	865.	720440.293	848.788	914.503	1212.51	2647.51	3361.01
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/20/58-09/16/68	12	1.615	1.523	1.93	0.87	0.104	0.322	0.969	1.248	1.795	1.894
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	08/20/58-09/09/62	12	4.9	4.75	6.4	3.1	1.195	1.093	3.16	3.7	5.725	6.31
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/30/59-09/16/68	12	4.9	4.75	6.4	3.1	1.195	1.093	3.16	3.7	5.725	6.31
71885	IRON (UG/L AS FE)	11/30/59-07/03/67	12	10.	7.5	20.	0.	56.818	7.538	0.	0.	10.	20.

** - Less than 9 observations ## - Computed with 50% or 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 BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/59-09/16/68	12	1165.	1494.667	4520.	896.	995243.152	997.619	909.2	970.	1582.5	3725.
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/20/58-08/23/89	8	1340.	1712.	4520.	896.	1397523.429	1182.169	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	08/20/58-05/12/66	12	5.	4.917	8.	2.	3.174	1.782	2.	4.	6.	7.7
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/58-08/23/89	12	1020.	995.	1300.	402.	51598.727	227.154	529.2	923.75	1117.5	1273.
00400	PH (STANDARD UNITS)	08/20/58-08/23/89	12	7.45	7.467	7.8	7.2	0.039	0.197	7.2	7.3	7.6	7.77
00400	CONVERTED PH (STANDARD UNITS)	08/20/58-08/23/89	12	7.447	7.427	7.8	7.2	0.04	0.201	7.2	7.3	7.6	7.77
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/58-08/23/89	12	0.036	0.037	0.063	0.016	0.	0.016	0.017	0.025	0.05	0.063
00440	BICARBONATE ION (MG/L AS HCO3)	08/20/58-09/16/68	12	219.5	219.333	275.	119.	1707.697	41.324	141.5	202.	250.75	273.8
00445	CARBONATE ION (MG/L AS CO3)	10/01/59-09/16/68	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/20/58-09/16/68	12	315.	317.583	424.	128.	5928.265	76.995	164.9	299.75	370.25	418.9
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/20/58-09/16/68	12	143.5	137.583	202.	30.	2039.902	45.165	48.6	121.25	171.75	195.7
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/20/58-09/16/68	12	80.	79.75	107.	35.	368.205	19.189	44.3	69.	93.75	106.1
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/20/58-09/16/68	12	28.	28.9	45.	9.8	78.411	8.855	13.16	25.25	35.25	42.9
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/20/58-09/16/68	12	107.	101.167	139.	34.	723.061	26.89	47.8	85.75	119.	133.9
00931	SODIUM ADSORPTION RATIO	08/20/58-09/16/68	12	2.6	2.45	2.9	1.3	0.192	0.438	1.54	2.225	2.775	2.87
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/20/58-09/16/68	12	3.55	3.467	4.5	1.4	0.633	0.796	1.88	3.15	3.875	4.47
00940	CHLORIDE,TOTAL IN WATER MG/L	08/20/58-09/16/68	12	10.	10.	15.	2.	10.182	3.191	3.8	9.	12.	14.4
00945	SULFATE, TOTAL (MG/L AS SO4)	08/20/58-09/16/68	12	345.	325.083	465.	93.	9089.174	95.337	136.2	278.25	388.75	446.7
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/20/58-09/16/68	12	0.5	0.483	0.7	0.2	0.016	0.127	0.26	0.4	0.575	0.67
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/20/58-09/16/68	12	17.	16.5	19.	14.	1.909	1.382	14.3	15.25	17.	18.7
01020	BORON, DISSOLVED (UG/L AS B)	08/20/58-09/16/68	12	170.	169.167	230.	50.	2699.242	51.954	68.	145.	207.5	230.
01045	IRON, TOTAL (UG/L AS FE)	08/20/58-04/05/68	9	10.	15.556	90.	0.	802.778	28.333	0.	0.	10.	90.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/20/58-09/16/68	12	722.	704.5	959.	264.	31256.455	176.795	348.	640.	811.5	931.1
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/20/58-09/16/68	12	2490.01	2490.843	3520.01	1610.01	366899.242	605.722	1628.01	2017.51	3087.51	3430.01
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/20/58-09/16/68	12	0.98	0.958	1.3	0.36	0.057	0.24	0.474	0.87	1.1	1.264
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	08/20/58-09/09/62	9	3.3	3.622	6.2	1.2	2.987	1.728	1.2	2.3	5.35	6.2
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/30/59-09/16/68	12	3.35	3.65	6.2	1.2	2.35	1.533	1.32	2.7	4.675	6.11
71885	IRON (UG/L AS FE)	11/30/59-07/03/67	12	10.	13.333	90.	0.	606.061	24.618	0.	0.	10.	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 box-and-whisker plot

Annual Analysis for 1963 - Station BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/59-09/16/68	12	842.	1166.833	4130.	490.	935761.061	967.347	524.2	776.	1272.5	3293.
00080	COLOR (PLATINUM-COBALT UNITS)	08/20/58-05/12/66	12	5.5	7.5	20.	4.	22.455	4.739	4.	4.25	8.75	17.9
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/58-08/23/89	12	1110.	1093.833	1450.	466.	54245.424	232.906	632.2	1040.	1235.	1393.
00400	PH (STANDARD UNITS)	08/20/58-08/23/89	12	7.6	7.65	8.	7.4	0.057	0.239	7.4	7.425	7.925	8.
00400	CONVERTED PH (STANDARD UNITS)	08/20/58-08/23/89	12	7.589	7.596	8.	7.4	0.06	0.246	7.4	7.425	7.925	8.
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/58-08/23/89	12	0.026	0.025	0.04	0.01	0.	0.012	0.01	0.012	0.038	0.04
00440	BICARBONATE ION (MG/L AS HCO3)	08/20/58-09/16/68	12	236.5	243.083	307.	126.	2194.629	46.847	153.6	229.25	279.	303.7
00445	CARBONATE ION (MG/L AS CO3)	10/01/59-09/16/68	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/20/58-09/16/68	12	352.	352.833	478.	145.	6684.152	81.757	194.2	326.5	410.5	463.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/20/58-09/16/68	12	161.5	161.75	245.	42.	2652.386	51.501	68.4	139.75	180.75	242.3
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/20/58-09/16/68	12	89.	89.917	118.	40.	393.538	19.838	50.2	86.	103.5	115.3
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/20/58-09/16/68	12	31.	31.25	45.	11.	67.841	8.237	15.8	27.75	36.75	43.2
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/20/58-09/16/68	12	113.5	111.25	152.	39.	746.932	27.33	57.	102.25	126.25	145.7
00931	SODIUM ADSORPTION RATIO	08/20/58-09/16/68	12	2.65	2.55	3.	1.4	0.19	0.436	1.64	2.4	2.875	2.97
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/20/58-09/16/68	12	3.9	3.808	5.1	1.8	0.868	0.932	2.1	3.25	4.475	5.01
00940	CHLORIDE,TOTAL IN WATER MG/L	08/20/58-09/16/68	12	10.	10.083	16.	3.	8.811	2.968	4.5	9.25	11.	14.8
00945	SULFATE, TOTAL (MG/L AS SO4)	08/20/58-09/16/68	12	373.	366.583	538.	123.	9234.083	96.094	186.3	335.25	410.75	505.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/20/58-09/16/68	12	0.5	0.525	0.6	0.3	0.007	0.087	0.36	0.5	0.6	0.6
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/20/58-09/16/68	12	17.	17.	18.	16.	0.727	0.853	16.	16.	18.	18.
01020	BORON, DISSOLVED (UG/L AS B)	08/20/58-09/16/68	12	185.	200.	340.	70.	4036.364	63.532	100.	180.	232.5	316.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/20/58-09/16/68	12	798.5	783.25	1040.	318.	30911.295	175.816	438.9	724.	896.5	1008.8
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/20/58-09/16/68	12	1950.01	2090.01	3550.01	1380.01	424000.	651.153	1413.01	1635.01	2500.01	3373.01
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/20/58-09/16/68	12	1.09	1.064	1.41	0.43	0.057	0.239	0.595	0.982	1.215	1.368
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/30/59-09/16/68	12	3.95	3.592	5.4	1.4	1.641	1.281	1.55	2.625	4.475	5.31
71885	IRON (UG/L AS FE)	11/30/59-07/03/67	12	10.	35.833	140.	0.	2462.879	49.627	0.	0.	87.5	125.

** - Less than 9 observations ## - Computed with 50% or 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 BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/59-09/16/68	18	1082.5	1531.056	6360.	475.	2688445.467	1639.648	587.5	772.75	1312.5	5635.5
00080	COLOR (PLATINUM-COBALT UNITS)	08/20/58-05/12/66	15	4.	6.733	35.	1.	68.352	8.268	1.6	3.	6.	21.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/58-08/23/89	15	1160.	1142.133	1350.	472.	42782.552	206.839	818.8	1090.	1260.	1338.
00400	PH (STANDARD UNITS)	08/20/58-08/23/89	15	7.5	7.58	8.	7.3	0.052	0.227	7.3	7.4	7.8	7.94
00400	CONVERTED PH (STANDARD UNITS)	08/20/58-08/23/89	15	7.5	7.53	8.	7.3	0.054	0.233	7.3	7.4	7.8	7.94
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/58-08/23/89	15	0.032	0.029	0.05	0.01	0.	0.013	0.012	0.016	0.04	0.05
00440	BICARBONATE ION (MG/L AS HCO3)	08/20/58-09/16/68	15	235.	255.933	316.	154.	2277.495	47.723	190.	226.	310.	314.8
00445	CARBONATE ION (MG/L AS CO3)	10/01/59-09/16/68	15	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/20/58-09/16/68	15	360.	369.867	454.	159.	5879.695	76.679	254.4	332.	436.	451.6
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/20/58-09/16/68	15	166.	159.933	213.	33.	1665.352	40.809	98.4	147.	182.	201.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/20/58-09/16/68	15	91.	91.	121.	46.	598.143	24.457	49.6	84.	112.	119.8
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/20/58-09/16/68	15	35.	34.667	51.	11.	79.524	8.918	21.2	32.	40.	46.8
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/20/58-09/16/68	15	118.	113.267	137.	38.	496.781	22.289	76.4	112.	122.	131.
00931	SODIUM ADSORPTION RATIO	08/20/58-09/16/68	15	2.6	2.547	3.	1.3	0.158	0.398	1.9	2.4	2.8	2.94
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/20/58-09/16/68	15	4.2	4.327	5.9	2.5	0.795	0.892	2.86	3.8	5.1	5.48
00940	CHLORIDE,TOTAL IN WATER MG/L	08/20/58-09/16/68	15	12.	12.067	18.	3.	10.495	3.24	7.2	11.	14.	16.2
00945	SULFATE, TOTAL (MG/L AS SO4)	08/20/58-09/16/68	15	382.	366.933	465.	108.	6238.21	78.982	240.6	356.	401.	445.2
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/20/58-09/16/68	15	0.6	0.547	0.7	0.3	0.01	0.099	0.36	0.5	0.6	0.64
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/20/58-09/16/68	15	16.	16.	19.	13.	2.857	1.69	13.6	15.	17.	18.4
01020	BORON, DISSOLVED (UG/L AS B)	08/20/58-09/16/68	15	190.	201.333	340.	60.	3712.381	60.929	108.	180.	240.	292.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/20/58-09/16/68	15	823.	803.	978.	314.	23485.857	153.251	567.2	763.	887.	954.6
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/20/58-09/16/68	15	2060.01	2254.009	4710.	1090.01	735322.206	857.509	1288.01	1810.01	2650.01	3738.006
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/20/58-09/16/68	15	1.12	1.094	1.33	0.43	0.044	0.209	0.772	1.04	1.21	1.3
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/30/59-09/16/68	15	3.1	2.973	6.5	0.2	3.215	1.793	0.26	1.7	3.9	5.54
71885	IRON (UG/L AS FE)	11/30/59-07/03/67	15	30.	52.667	130.	0.	2420.952	49.203	0.	10.	100.	130.

** - Less than 9 observations ## - Computed with 50% or 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 BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/59-09/16/68	29	1116.	1915.483	8733.	664.	4040090.687	2009.998	699.	911.5	1558.5	5722.
00080	COLOR (PLATINUM-COBALT UNITS)	08/20/58-05/12/66	29	5.	4.966	10.	1.	5.963	2.442	2.	3.	6.5	9.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/58-08/23/89	29	1020.	940.759	1260.	355.	64446.19	253.863	377.	872.	1100.	1190.
00400	PH (STANDARD UNITS)	08/20/58-08/23/89	29	7.5	7.493	7.9	7.	0.053	0.23	7.2	7.3	7.7	7.8
00400	CONVERTED PH (STANDARD UNITS)	08/20/58-08/23/89	29	7.5	7.431	7.9	7.	0.057	0.238	7.2	7.3	7.7	7.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/58-08/23/89	29	0.032	0.037	0.1	0.013	0.	0.022	0.016	0.02	0.05	0.063
00440	BICARBONATE ION (MG/L AS HCO3)	08/20/58-09/16/68	29	225.	221.138	306.	113.	2486.98	49.87	119.	215.	258.	282.
00445	CARBONATE ION (MG/L AS CO3)	10/01/59-09/16/68	29	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/20/58-09/16/68	29	319.	304.724	451.	117.	7633.564	87.37	121.	286.	360.	402.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/20/58-09/16/68	29	137.	123.241	202.	19.	2295.69	47.913	28.	106.5	152.	175.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/20/58-09/16/68	29	80.	76.552	119.	31.	489.328	22.121	31.	72.	90.5	99.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/20/58-09/16/68	29	29.	27.766	40.	9.6	71.697	8.467	11.	24.5	34.5	37.
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/20/58-09/16/68	29	99.	92.345	132.	27.	855.234	29.244	31.	79.	113.5	123.
00931	SODIUM ADSORPTION RATIO	08/20/58-09/16/68	29	2.4	2.269	3.	1.1	0.265	0.515	1.2	1.95	2.6	2.9
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/20/58-09/16/68	29	3.6	3.679	6.7	1.3	1.263	1.124	1.8	3.35	4.2	5.3
00940	CHLORIDE,TOTAL IN WATER MG/L	08/20/58-09/16/68	29	10.	9.414	19.	3.	11.323	3.365	4.	7.	11.	12.
00945	SULFATE, TOTAL (MG/L AS SO4)	08/20/58-09/16/68	29	331.	295.31	424.	75.	9508.079	97.509	90.	254.5	353.5	408.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/20/58-09/16/68	29	0.5	0.49	0.7	0.3	0.009	0.094	0.4	0.4	0.5	0.6
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/20/58-09/16/68	29	16.	15.828	17.	14.	0.862	0.928	14.	15.	16.5	17.
01020	BORON, DISSOLVED (UG/L AS B)	08/20/58-09/16/68	29	170.	156.897	270.	30.	3479.31	58.986	40.	125.	195.	220.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/20/58-09/16/68	29	713.	657.483	915.	226.	36580.116	191.259	242.	598.	778.	842.
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/20/58-09/16/68	29	2040.01	2724.15	10590.1	1050.01	3785805.284	1945.715	1580.01	1695.01	2620.01	5470.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/20/58-09/16/68	29	0.97	0.895	1.24	0.31	0.067	0.259	0.33	0.815	1.06	1.15
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/30/59-09/16/68	29	2.4	2.338	3.8	0.2	1.229	1.109	0.4	1.5	3.35	3.7
71885	IRON (UG/L AS FE)	11/30/59-07/03/67	21	10.	6.667	10.	0.	23.333	4.83	0.	0.	10.	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 1966 - Station BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/59-09/16/68	23	672.	762.957	1750.	359.	80755.407	284.175	528.	602.	890.	1104.8
00080	COLOR (PLATINUM-COBALT UNITS)	08/20/58-05/12/66	6	2.	2.333	5.	1.	2.267	1.506	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/58-08/23/89	23	1150.	1127.261	1510.	751.	22907.474	151.352	971.6	1030.	1220.	1316.
00400	PH (STANDARD UNITS)	08/20/58-08/23/89	23	7.8	7.752	8.	7.1	0.059	0.243	7.3	7.7	7.9	8.
00400	CONVERTED PH (STANDARD UNITS)	08/20/58-08/23/89	23	7.8	7.672	8.	7.1	0.066	0.256	7.3	7.7	7.9	8.
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/58-08/23/89	23	0.016	0.021	0.079	0.01	0.	0.017	0.01	0.013	0.02	0.05
00440	BICARBONATE ION (MG/L AS HCO3)	08/20/58-09/16/68	23	242.	242.348	291.	165.	881.601	29.692	206.8	224.	270.	280.8
00445	CARBONATE ION (MG/L AS CO3)	10/01/59-09/16/68	23	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/20/58-09/16/68	23	361.	365.043	462.	226.	2146.862	46.334	315.2	350.	379.	437.2
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/20/58-09/16/68	23	165.	166.174	263.	91.	1061.514	32.581	133.4	150.	177.	212.6
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/20/58-09/16/68	23	93.	88.87	110.	44.	222.846	14.928	68.6	82.	97.	104.2
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/20/58-09/16/68	23	34.	34.913	47.	24.	30.356	5.51	28.4	32.	38.	44.4
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/20/58-09/16/68	23	113.	117.	173.	78.	872.909	29.545	80.	91.	141.	161.4
00931	SODIUM ADSORPTION RATIO	08/20/58-09/16/68	23	2.5	2.657	3.5	1.8	0.37	0.608	1.9	2.1	3.2	3.5
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/20/58-09/16/68	23	4.5	4.23	6.	1.	1.301	1.141	2.4	3.6	5.	5.38
00940	CHLORIDE,TOTAL IN WATER MG/L	08/20/58-09/16/68	23	17.	15.957	24.	10.	12.407	3.522	10.4	13.	18.	20.
00945	SULFATE, TOTAL (MG/L AS SO4)	08/20/58-09/16/68	23	394.	384.348	580.	230.	6497.328	80.606	296.8	321.	437.	491.2
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/20/58-09/16/68	23	0.7	0.739	1.2	0.5	0.02	0.141	0.6	0.6	0.8	0.86
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/20/58-09/16/68	23	16.	16.	20.	13.	3.455	1.859	14.	15.	17.	19.6
01020	BORON, DISSOLVED (UG/L AS B)	08/20/58-09/16/68	23	180.	181.304	240.	80.	1920.949	43.829	120.	150.	220.	230.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/20/58-09/16/68	23	808.	797.739	1070.	506.	15281.292	123.618	661.2	718.	878.	966.
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/20/58-09/16/68	23	1470.01	1607.401	2720.01	1040.01	246247.431	496.233	1084.01	1170.01	2100.01	2396.01
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/20/58-09/16/68	23	1.1	1.084	1.46	0.69	0.028	0.168	0.898	0.98	1.19	1.314
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/30/59-09/16/68	23	2.8	3.317	6.6	1.8	1.674	1.294	2.	2.3	4.2	5.14

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

Annual Analysis for 1967 - Station BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/59-09/16/68	9	1060.	2101.	10400.	700.	9714666.5	3116.836	700.	994.5	1265.	10400.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/58-08/23/89	9	981.	913.556	1090.	312.	57187.778	239.14	312.	880.	1060.	1090.
00400	PH (STANDARD UNITS)	08/20/58-08/23/89	9	8.1	8.	8.1	7.8	0.015	0.122	7.8	7.9	8.1	8.1
00400	CONVERTED PH (STANDARD UNITS)	08/20/58-08/23/89	9	8.1	7.984	8.1	7.8	0.015	0.124	7.8	7.9	8.1	8.1
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/58-08/23/89	9	0.008	0.01	0.016	0.008	0.	0.003	0.008	0.008	0.013	0.016
00440	BICARBONATE ION (MG/L AS HCO3)	08/20/58-09/16/68	9	224.	220.667	292.	122.	1878.75	43.345	122.	220.	229.	292.
00445	CARBONATE ION (MG/L AS CO3)	10/01/59-09/16/68	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/20/58-09/16/68	9	308.	301.889	408.	117.	6068.111	77.898	117.	293.5	339.	408.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/20/58-09/16/68	9	127.	120.889	168.	17.	1897.361	43.559	17.	110.	151.	168.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/20/58-09/16/68	9	83.	79.889	101.	37.	304.611	17.453	37.	79.	86.5	101.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/20/58-09/16/68	9	25.	25.	38.	6.	80.	8.944	6.	21.5	31.	38.
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/20/58-09/16/68	9	100.	87.111	107.	23.	698.111	26.422	23.	78.5	102.	107.
00931	SODIUM ADSORPTION RATIO	08/20/58-09/16/68	9	2.4	2.144	2.7	0.9	0.298	0.546	0.9	1.9	2.5	2.7
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/20/58-09/16/68	9	3.7	3.578	4.8	1.5	0.782	0.884	1.5	3.45	3.95	4.8
00940	CHLORIDE,TOTAL IN WATER MG/L	08/20/58-09/16/68	9	9.	8.222	12.	2.	6.944	2.635	2.	8.	9.	12.
00945	SULFATE, TOTAL (MG/L AS SO4)	08/20/58-09/16/68	9	323.	290.	357.	59.	8660.25	93.06	59.	268.5	346.5	357.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/20/58-09/16/68	9	0.6	0.644	0.8	0.5	0.018	0.133	0.5	0.5	0.8	0.8
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/20/58-09/16/68	9	15.	14.556	16.	12.	1.278	1.13	12.	14.	15.	16.
01020	BORON, DISSOLVED (UG/L AS B)	08/20/58-09/16/68	9	150.	141.111	190.	30.	2086.111	45.674	30.	130.	165.	190.
01045	IRON, TOTAL (UG/L AS FE)	08/20/58-04/05/68	1	60.	60.	60.	60.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/20/58-09/16/68	9	684.	628.444	774.	196.	30420.778	174.416	196.	588.	728.	774.
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/20/58-09/16/68	9	2080.01	2344.453	5500.	1460.01	1503419.889	1226.14	1460.01	1665.01	2340.01	5500.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/20/58-09/16/68	9	0.93	0.854	1.05	0.27	0.056	0.236	0.27	0.8	0.99	1.05
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/30/59-09/16/68	9	2.2	1.967	4.4	0.2	1.74	1.319	0.2	0.65	2.6	4.4
71885	IRON (UG/L AS FE)	11/30/59-07/03/67	3	80.	90.	180.	10.	7300.	85.44	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/59-09/16/68	23	868.	995.652	1840.	549.	124916.964	353.436	590.8	739.	1200.	1644.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/58-08/23/89	23	1030.	1038.087	1330.	774.	24897.356	157.789	802.	928.	1160.	1286.
00400	PH (STANDARD UNITS)	08/20/58-08/23/89	23	7.9	7.952	8.5	7.7	0.054	0.231	7.7	7.7	8.2	8.2
00400	CONVERTED PH (STANDARD UNITS)	08/20/58-08/23/89	23	7.9	7.899	8.5	7.7	0.056	0.238	7.7	7.7	8.2	8.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/58-08/23/89	23	0.013	0.013	0.02	0.003	0.	0.006	0.006	0.006	0.02	0.02
00440	BICARBONATE ION (MG/L AS HCO3)	08/20/58-09/16/68	23	215.	221.957	270.	187.	470.407	21.689	197.2	209.	234.	264.2
00445	CARBONATE ION (MG/L AS CO3)	10/01/59-09/16/68	23	0.	0.304	7.	0.	2.13	1.46	0.	0.	0.	0.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/20/58-09/16/68	23	326.	324.043	397.	264.	1790.407	42.313	270.4	280.	360.	383.2
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/20/58-09/16/68	23	144.	141.478	211.	91.	1222.806	34.969	97.	109.	165.	199.6
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/20/58-09/16/68	23	86.	86.957	103.	73.	76.316	8.736	73.4	82.	92.	100.6
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/20/58-09/16/68	23	26.	26.096	41.	6.2	59.538	7.716	15.	22.	31.	35.8
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/20/58-09/16/68	23	109.	109.565	160.	69.	639.166	25.282	75.2	90.	127.	146.8
00931	SODIUM ADSORPTION RATIO	08/20/58-09/16/68	23	2.7	2.63	3.6	1.8	0.243	0.493	1.94	2.1	3.	3.3
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/20/58-09/16/68	23	3.6	3.604	5.4	2.	0.754	0.868	2.22	3.1	4.4	4.62
00940	CHLORIDE,TOTAL IN WATER MG/L	08/20/58-09/16/68	23	11.	10.652	19.	7.	5.874	2.424	8.	9.	12.	13.
00945	SULFATE, TOTAL (MG/L AS SO4)	08/20/58-09/16/68	23	336.	350.261	498.	221.	6675.747	81.705	237.2	290.	418.	484.8
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/20/58-09/16/68	23	0.6	0.591	0.9	0.3	0.022	0.147	0.4	0.5	0.7	0.8
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/20/58-09/16/68	23	14.	14.226	17.	5.2	5.103	2.259	13.	14.	15.	16.6
01020	BORON, DISSOLVED (UG/L AS B)	08/20/58-09/16/68	23	150.	150.87	210.	80.	1108.3	33.291	104.	130.	180.	196.
01045	IRON, TOTAL (UG/L AS FE)	08/20/58-04/05/68	1	120.	120.	120.	120.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/20/58-09/16/68	23	720.	723.043	956.	524.	15199.953	123.288	546.8	612.	814.	911.2
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/20/58-09/16/68	23	1650.01	1885.662	3300.01	1240.01	325326.024	570.374	1370.01	1490.01	2180.01	3018.01
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/20/58-09/16/68	23	0.98	0.983	1.3	0.71	0.028	0.167	0.748	0.83	1.11	1.238
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/30/59-09/16/68	23	2.3	2.513	6.3	0.1	3.026	1.739	0.44	1.3	3.	6.1

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

Annual Analysis for 1979 - Station BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/20/58-08/23/89	1	401.	401.	401.	401.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/20/58-08/23/89	2	518.	518.	536.	500.	648.	25.456	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/58-08/23/89	1	1300.	1300.	1300.	1300.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/20/58-08/23/89	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/20/58-08/23/89	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/58-08/23/89	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 BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/20/58-08/23/89	3	450.	508.333	625.	450.	10208.333	101.036	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/58-08/23/89	1	1500.	1500.	1500.	1500.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/20/58-08/23/89	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/20/58-08/23/89	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/58-08/23/89	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 box-and-whisker plot

Annual Analysis for 1982 - Station BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/20/58-08/23/89	8	837.5	1433.125	5600.	320.	3012592.411	1735.682	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/58-08/23/89	8	965.	955.	1300.	390.	77114.286	277.695	**	**	**	**
00400	PH (STANDARD UNITS)	08/20/58-08/23/89	8	7.9	7.9	8.3	7.5	0.071	0.267	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/20/58-08/23/89	8	7.9	7.829	8.3	7.5	0.077	0.278	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/58-08/23/89	8	0.013	0.015	0.032	0.005	0.	0.009	**	**	**	**

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Annual Analysis for 1983 - Station BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/20/58-08/23/89	10	775.5	899.1	2370.	342.	360324.767	600.271	344.3	404.75	1052.5	2266.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/58-08/23/89	10	905.	874.	1120.	480.	30204.444	173.794	508.	782.5	1000.	1108.
00400	PH (STANDARD UNITS)	08/20/58-08/23/89	10	8.2	8.15	8.4	7.9	0.029	0.172	7.9	7.975	8.3	8.39
00400	CONVERTED PH (STANDARD UNITS)	08/20/58-08/23/89	10	8.2	8.119	8.4	7.9	0.031	0.175	7.9	7.975	8.3	8.39
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/58-08/23/89	10	0.006	0.008	0.013	0.004	0.	0.003	0.004	0.005	0.011	0.013

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Annual Analysis for 1984 - Station BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/20/58-08/23/89	5	663.	1314.4	4380.	411.	2954016.3	1718.725	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/58-08/23/89	5	520.	660.2	1090.	341.	109190.2	330.439	**	**	**	**
00400	PH (STANDARD UNITS)	08/20/58-08/23/89	5	8.3	8.3	8.4	8.2	0.01	0.1	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/20/58-08/23/89	5	8.3	8.291	8.4	8.2	0.01	0.101	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/58-08/23/89	5	0.005	0.005	0.006	0.004	0.	0.001	**	**	**	**

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Annual Analysis for 1985 - Station BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/20/58-08/23/89	4	627.	542.	636.	278.	31036.667	176.172	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/58-08/23/89	4	867.5	911.25	1170.	740.	34072.917	184.589	**	**	**	**
00400	PH (STANDARD UNITS)	08/20/58-08/23/89	4	8.15	8.175	8.3	8.1	0.009	0.096	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/20/58-08/23/89	4	8.147	8.167	8.3	8.1	0.009	0.096	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/58-08/23/89	4	0.007	0.007	0.008	0.005	0.	0.001	**	**	**	**

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Annual Analysis for 1986 - Station BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/20/58-08/23/89	4	930.	1237.5	2540.	550.	867758.333	931.535	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/58-08/23/89	4	945.	815.	1000.	370.	88700.	297.825	**	**	**	**
00400	PH (STANDARD UNITS)	08/20/58-08/23/89	4	8.2	8.175	8.3	8.	0.016	0.126	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/20/58-08/23/89	4	8.2	8.161	8.3	8.	0.016	0.127	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/58-08/23/89	4	0.006	0.007	0.01	0.005	0.	0.002	**	**	**	**

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Annual Analysis for 1987 - Station BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/20/58-08/23/89	4	384.	411.25	540.	337.	8124.917	90.138	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/58-08/23/89	4	1115.	1070.	1140.	910.	11933.333	109.24	**	**	**	**
00400	PH (STANDARD UNITS)	08/20/58-08/23/89	4	8.15	8.125	8.2	8.	0.009	0.096	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/20/58-08/23/89	4	8.147	8.117	8.2	8.	0.009	0.096	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/58-08/23/89	4	0.007	0.008	0.01	0.006	0.	0.002	**	**	**	**

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Annual Analysis for 1988 - Station BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/20/58-08/23/89	4	320.5	356.	475.	308.	6328.667	79.553	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/58-08/23/89	4	1340.	1285.	1450.	1010.	36366.667	190.7	**	**	**	**
00400	PH (STANDARD UNITS)	08/20/58-08/23/89	4	8.5	8.425	8.5	8.2	0.023	0.15	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/20/58-08/23/89	4	8.5	8.404	8.5	8.2	0.023	0.152	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/58-08/23/89	4	0.003	0.004	0.006	0.003	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 1989 - Station BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/58-08/23/89	3	880.	1086.667	1550.	830.	161633.333	402.036	**	**	**	**
00400	PH (STANDARD UNITS)	08/20/58-08/23/89	3	8.3	8.233	8.4	8.	0.043	0.208	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/20/58-08/23/89	3	8.3	8.199	8.4	8.	0.045	0.212	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/58-08/23/89	3	0.005	0.006	0.01	0.004	0.	0.003	**	**	**	**

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

Seasonal Analysis for Season #1: 8/10 to 4/14 - Station BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/59-08/23/89	45	8.	7.731	20.5	0.	45.496	6.745	0.	0.85	13.	17.88
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	12/17/81-08/23/89	27	12.	8.593	31.5	-25.	215.905	14.694	1.	7.	28.	-15.8
00025	BAROMETRIC PRESSURE (MM OF HG)	10/04/82-08/23/89	23	665.	665.435	710.	633.	219.166	14.804	648.6	658.	675.	680.
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/59-09/16/68	104	973.5	978.115	2780.	268.	142699.152	377.755	555.5	696.25	1186.5	1412.
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/20/58-08/23/89	65	694.	880.908	3300.	150.	379052.304	615.672	320.6	462.5	1100.	1514.
00080	COLOR (PLATINUM-COBALT UNITS)	08/20/58-05/12/66	76	5.	4.934	20.	1.	9.956	3.155	2.	3.	6.	7.3
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/58-08/23/89	134	1085.	1132.679	2540.	377.	96326.385	310.365	830.5	950.	1252.5	1535.
00300	OXYGEN, DISSOLVED MG/L	02/10/82-08/23/89	27	11.2	10.733	13.2	6.7	3.27	1.808	8.04	9.6	12.	13.02
00400p	PH (STANDARD UNITS)	08/20/58-08/23/89	134	7.75	7.779	8.5	7.	0.111	0.334	7.35	7.5	8.	8.2
00400p	CONVERTED PH (STANDARD UNITS)	08/20/58-08/23/89	134	7.747	7.658	8.5	7.	0.126	0.355	7.35	7.5	8.	8.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/58-08/23/89	134	0.018	0.022	0.1	0.003	0.	0.017	0.006	0.01	0.032	0.045
00440	BICARBONATE ION (MG/L AS HCO3)	08/20/58-09/16/68	105	258.	257.648	450.	113.	2478.769	49.787	212.2	225.5	282.	313.4
00445	CARBONATE ION (MG/L AS CO3)	10/01/59-09/16/68	96	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/02/80-08/23/89	30	0.11	0.11	0.35	0.02	0.004	0.063	0.033	0.068	0.13	0.176
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	12/02/80-08/23/89	30	0.685	0.967	6.8	0.1	1.337	1.156	0.31	0.575	1.	1.3
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/02/80-08/23/89	30	0.845	0.884	1.7	0.1	0.15	0.388	0.31	0.688	1.2	1.39
00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/02/80-08/23/89	30	0.06	0.23	4.2	0.02	0.567	0.753	0.03	0.04	0.135	0.238
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/20/58-09/16/68	105	370.	382.657	794.	121.	11219.054	105.92	283.6	319.5	427.	524.2
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/20/58-09/16/68	105	159.	172.257	456.	28.	4952.866	70.377	107.6	134.5	188.	272.6
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/20/58-09/16/68	105	96.	97.467	185.	31.	679.097	26.059	75.	82.	106.	129.2
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/20/58-09/16/68	105	32.	33.945	81.	6.2	135.678	11.648	22.6	27.	38.5	47.
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/20/58-09/16/68	105	109.	117.01	288.	31.	1624.433	40.304	78.6	91.5	128.5	170.
00931	SODIUM ADSORPTION RATIO	08/20/58-09/16/68	105	2.5	2.568	4.7	1.2	0.314	0.56	1.96	2.15	2.9	3.34
00932	SODIUM, PERCENT	08/20/58-09/16/68	49	39.	38.837	48.	32.	17.556	4.19	33.	35.	41.5	45.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/20/58-09/16/68	105	4.3	4.451	8.7	1.7	1.542	1.242	3.22	3.6	5.	6.
00940	CHLORIDE,TOTAL IN WATER MG/L	08/20/58-09/16/68	105	11.	12.581	32.	3.	24.707	4.971	8.	9.5	14.5	20.
00945	SULFATE, TOTAL (MG/L AS SO4)	08/20/58-09/16/68	105	357.	391.505	990.	90.	20511.656	143.219	248.	316.	432.5	593.8
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/20/58-09/16/68	105	0.6	0.606	1.2	0.3	0.025	0.157	0.4	0.5	0.7	0.8
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/20/58-09/16/68	105	16.	15.707	22.	5.2	4.4	2.098	14.	15.	17.	18.
01020	BORON, DISSOLVED (UG/L AS B)	08/20/58-09/16/68	105	200.	211.048	500.	40.	6197.93	78.727	130.	165.	240.	324.
01045	IRON, TOTAL (UG/L AS FE)	08/20/58-04/05/68	33	10.	11.818	120.	0.	509.091	22.563	0.	0.	10.	20.
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/10/82-08/23/89	27	270.	336.741	1200.	10.	88557.584	297.586	47.	110.	510.	826.
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	02/10/82-08/23/89	27	2.431	2.329	3.079	1.	0.233	0.483	1.668	2.041	2.708	2.916
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			213.206								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/20/58-09/16/68	105	774.	829.838	1840.	242.	66790.079	258.438	584.6	680.	910.	1194.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/03/58-09/16/68	24	685.5	829.833	1730.	517.	121633.71	348.76	542.	613.75	983.75	1545.
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/20/58-09/16/68	105	1930.01	2007.98	4030.	737.	413257.725	642.851	1240.01	1490.01	2465.005	2842.01
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/20/58-09/16/68	105	1.05	1.129	2.51	0.33	0.124	0.352	0.796	0.925	1.235	1.622
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/30/59-09/16/68	95	2.9	2.974	6.7	0.1	2.16	1.47	1.	2.	3.9	4.9
71885	IRON (UG/L AS FE)	11/30/59-07/03/67	56	10.	22.5	180.	0.	1619.091	40.238	0.	0.	10.	90.

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Seasonal Analysis for Season #2: 4/15 to 6/19 - Station BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/59-08/23/89	25	15.	15.88	25.5	9.4	15.735	3.967	10.6	13.15	19.15	21.54
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	12/17/81-08/23/89	8	19.5	18.563	23.	14.	11.817	3.438	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	10/04/82-08/23/89	7	667.	667.143	680.	653.	75.81	8.707	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/59-09/16/68	40	877.5	961.35	5722.	241.	727447.31	852.905	331.3	524.5	1081.	1407.
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/20/58-08/23/89	26	482.5	623.115	1720.	241.	152786.746	390.879	313.	334.	846.	1345.
00080	COLOR (PLATINUM-COBALT UNITS)	08/20/58-05/12/66	19	6.	12.316	90.	1.	410.339	20.257	1.	5.	8.	35.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/58-08/23/89	38	1115.	1146.553	1710.	594.	65158.957	255.263	857.	1007.5	1205.	1592.
00300	OXYGEN, DISSOLVED MG/L	02/10/82-08/23/89	8	9.6	9.663	10.9	7.8	1.046	1.023	**	**	**	**
00400p	PH (STANDARD UNITS)	08/20/58-08/23/89	38	7.7	7.808	8.5	7.1	0.123	0.351	7.3	7.575	8.025	8.31
00400p	CONVERTED PH (STANDARD UNITS)	08/20/58-08/23/89	38	7.7	7.677	8.5	7.1	0.14	0.375	7.3	7.575	8.025	8.31
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/58-08/23/89	38	0.02	0.021	0.079	0.003	0.	0.017	0.005	0.009	0.027	0.05

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Seasonal Analysis for Season #2: 4/15 to 6/19 - Station BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00440	BICARBONATE ION (MG/L AS HCO3)	08/20/58-09/16/68	30	223.	226.567	272.	160.	601.702	24.53	202.2	214.75	236.	267.6
00445	CARBONATE ION (MG/L AS CO3)	10/01/59-09/16/68	28	0.	0.25	7.	0.	1.75	1.323	0.	0.	0.	0.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/02/80-08/23/89	8	0.09	0.098	0.15	0.05	0.001	0.038	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	12/02/80-08/23/89	8	1.3	1.263	2.4	0.4	0.463	0.68	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/02/80-08/23/89	8	1.15	1.125	1.3	0.9	0.022	0.149	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/02/80-08/23/89	8	0.27	0.279	0.61	0.05	0.046	0.215	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/20/58-09/16/68	30	348.	361.667	531.	180.	6184.506	78.642	288.1	309.75	396.75	478.5
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/20/58-09/16/68	30	164.5	175.433	308.	49.	3705.564	60.873	112.1	139.	207.75	262.7
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/20/58-09/16/68	30	86.	88.033	140.	48.	465.482	21.575	67.	73.75	95.5	122.3
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/20/58-09/16/68	30	33.5	34.633	48.	15.	74.93	8.656	19.7	30.	43.25	44.9
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/20/58-09/16/68	30	124.5	131.567	200.	56.	1161.22	34.077	97.2	107.75	145.25	186.
00931	SODIUM ADSORPTION RATIO	08/20/58-09/16/68	30	2.95	2.983	3.8	1.8	0.217	0.466	2.5	2.7	3.325	3.7
00932	SODIUM, PERCENT	08/20/58-09/16/68	15	44.	43.733	47.	41.	3.21	1.792	41.	42.	45.	46.4
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/20/58-09/16/68	30	3.75	3.693	5.1	2.	0.669	0.818	2.4	3.075	4.35	4.87
00940	CHLORIDE,TOTAL IN WATER MG/L	08/20/58-09/16/68	30	12.5	13.7	24.	6.	17.252	4.154	9.1	10.75	17.	19.9
00945	SULFATE, TOTAL (MG/L AS SO4)	08/20/58-09/16/68	30	400.5	427.867	720.	159.	17125.844	130.866	304.9	337.	490.	641.6
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/20/58-09/16/68	30	0.6	0.607	0.9	0.4	0.017	0.128	0.41	0.5	0.7	0.8
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/20/58-09/16/68	30	15.	15.3	18.	12.	2.493	1.579	13.1	14.	17.	17.
01020	BORON, DISSOLVED (UG/L AS B)	08/20/58-09/16/68	30	175.	187.333	370.	80.	4854.713	69.676	110.	140.	207.5	299.
01045	IRON, TOTAL (UG/L AS FE)	08/20/58-04/05/68	8	15.	21.25	90.	0.	841.071	29.001	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/10/82-08/23/89	8	735.	679.375	1230.	165.	149503.125	386.656	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	02/10/82-08/23/89	8	2.866	2.747	3.09	2.217	0.1	0.316	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			559.007								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/20/58-09/16/68	30	816.5	861.167	1330.	395.	47058.971	216.931	646.2	719.	941.	1209.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/03/58-09/16/68	8	809.	854.125	1160.	605.	42241.554	205.528	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/20/58-09/16/68	30	1785.01	1913.641	6100.	865.	959345.559	979.462	1045.009	1235.01	2132.51	3014.01
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/20/58-09/16/68	30	1.11	1.171	1.81	0.54	0.087	0.295	0.876	0.978	1.28	1.648
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/30/59-09/16/68	28	3.15	3.043	6.5	0.1	2.106	1.451	0.47	2.3	4.075	4.9
71885	IRON (UG/L AS FE)	11/30/59-07/03/67	16	15.	32.5	130.	0.	1646.667	40.579	0.	10.	65.	102.

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

Seasonal Analysis for Season #3: 6/20 to 8/09 - Station BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/59-08/23/89	12	17.5	17.992	23.9	13.	8.628	2.937	13.3	17.	19.75	23.06
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	12/17/81-08/23/89	7	26.5	27.	35.	18.	29.083	5.393	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	10/04/82-08/23/89	6	663.5	664.5	680.	655.	93.1	9.649	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/59-09/16/68	29	868.	2474.483	10400.	410.	7611553.687	2758.904	496.	726.	4325.	6576.
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/20/58-08/23/89	17	858.	1679.588	5600.	404.	2745230.132	1656.874	408.8	523.	2455.	4736.
00080	COLOR (PLATINUM-COBALT UNITS)	08/20/58-05/12/66	17	7.	7.412	13.	4.	7.882	2.808	4.	5.	9.5	12.2
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/58-08/23/89	34	1045.	920.529	1530.	312.	147295.772	383.791	358.5	470.5	1205.	1350.
00300	OXYGEN, DISSOLVED MG/L	02/10/82-08/23/89	7	8.9	9.086	10.7	7.9	0.741	0.861	**	**	**	**
00400p	PH (STANDARD UNITS)	08/20/58-08/23/89	34	7.7	7.712	8.2	7.	0.117	0.343	7.25	7.475	8.	8.2
00400p	CONVERTED PH (STANDARD UNITS)	08/20/58-08/23/89	34	7.7	7.583	8.2	7.	0.134	0.367	7.25	7.475	8.	8.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/58-08/23/89	34	0.02	0.026	0.1	0.006	0.	0.021	0.006	0.01	0.034	0.057
00440	BICARBONATE ION (MG/L AS HCO3)	08/20/58-09/16/68	27	222.	202.444	249.	119.	2072.026	45.52	119.	165.	238.	246.2
00445	CARBONATE ION (MG/L AS CO3)	10/01/59-09/16/68	25	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/02/80-08/23/89	7	0.09	0.083	0.14	0.02	0.002	0.039	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	12/02/80-08/23/89	7	0.8	0.929	1.3	0.6	0.089	0.298	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/02/80-08/23/89	7	0.6	0.85	1.5	0.3	0.249	0.499	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/02/80-08/23/89	7	0.21	0.239	0.37	0.11	0.009	0.096	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/20/58-09/16/68	27	326.	302.148	457.	117.	11455.054	107.028	117.	226.	390.	420.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/20/58-09/16/68	27	145.	136.148	262.	17.	5058.516	71.123	19.	91.	196.	216.8
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/20/58-09/16/68	27	86.	77.185	115.	31.	723.541	26.899	34.2	46.	100.	105.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/20/58-09/16/68	27	29.	26.704	43.	6.	111.807	10.574	9.6	23.	35.	38.4
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/20/58-09/16/68	27	123.	108.519	170.	23.	2299.567	47.954	28.6	78.	147.	165.8

** - 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 #3: 6/20 to 8/09 - Station BICA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00931	SODIUM ADSORPTION RATIO	08/20/58-09/16/68	27	2.9	2.611	3.5	0.9	0.706	0.84	1.18	2.3	3.3	3.5
00932	SODIUM, PERCENT	08/20/58-09/16/68	12	45.	43.833	47.	30.	20.333	4.509	33.9	44.	45.75	47.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/20/58-09/16/68	27	3.6	3.156	4.6	1.	1.127	1.062	1.38	2.1	3.7	4.4
00940	CHLORIDE,TOTAL IN WATER MG/L	08/20/58-09/16/68	27	11.	10.037	19.	2.	22.652	4.759	2.8	7.	12.	17.2
00945	SULFATE, TOTAL (MG/L AS SO4)	08/20/58-09/16/68	27	384.	343.852	602.	59.	26432.208	162.58	79.	230.	471.	525.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/20/58-09/16/68	27	0.6	0.548	0.8	0.2	0.024	0.155	0.3	0.5	0.6	0.8
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/20/58-09/16/68	27	16.	16.074	17.	14.	0.764	0.874	15.	15.	17.	17.
01020	BORON, DISSOLVED (UG/L AS B)	08/20/58-09/16/68	27	170.	156.667	350.	30.	7361.538	85.799	38.	80.	210.	274.
01045	IRON, TOTAL (UG/L AS FE)	08/20/58-04/05/68	8	10.	10.	20.	0.	28.571	5.345	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/10/82-08/23/89	7	510.	512.857	970.	270.	65157.143	255.259	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	02/10/82-08/23/89	7	2.708	2.666	2.987	2.431	0.044	0.21	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			463.257								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/20/58-09/16/68	27	772.	710.593	1150.	196.	81719.943	285.867	230.8	506.	955.	1021.2
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/03/58-09/16/68	5	771.	804.6	942.	720.	7125.3	84.411	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/20/58-09/16/68	27	2220.01	2943.344	10590.1	1420.01	3997162.923	1999.291	1486.008	1650.01	3550.01	5476.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/20/58-09/16/68	27	1.05	0.967	1.56	0.27	0.15	0.388	0.318	0.69	1.3	1.388
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/30/59-09/16/68	25	3.2	3.628	6.6	0.2	4.246	2.061	0.36	1.8	5.4	6.34
71885	IRON (UG/L AS FE)	11/30/59-07/03/67	16	10.	14.375	100.	0.	546.25	23.372	0.	10.	10.	44.

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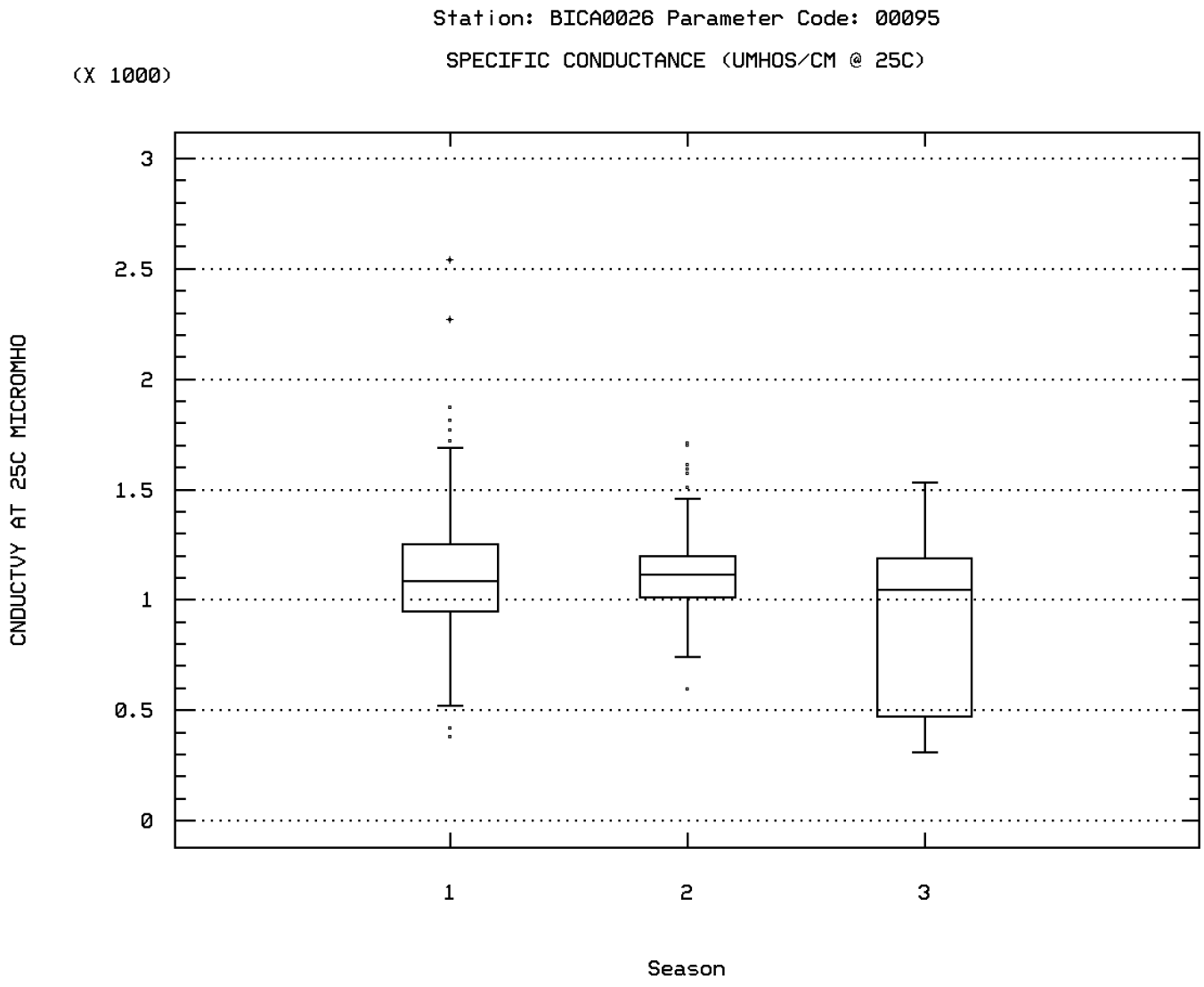
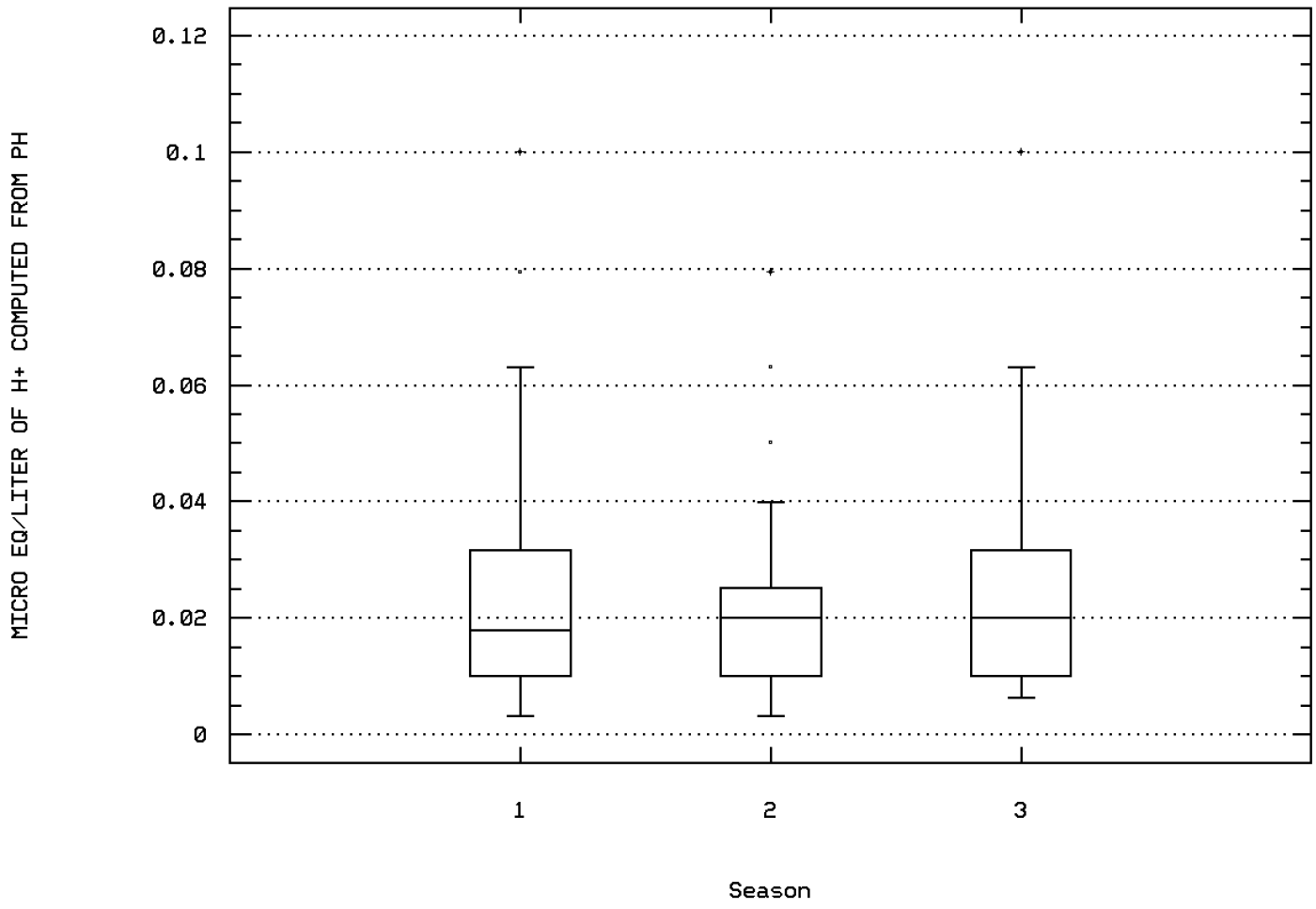


SHOSHONE RIVER AT KANE, WY

Station: BICA0026 Parameter Code: 00400

MICRO EQ/LITER OF H+ COMPUTED FROM PH



SHOSHONE RIVER AT KANE, WY

Station Inventory for Station: BICA0027

NPS Station ID: BICA0027
Location: SHOSHONE R AT KANE
Station Type: /TYPA/AMBNT/STREAM
RMI-Indexes:
RMI-Miles:
HUC: 10080014
Major Basin: MISSOURI R
Minor Basin: YELLOWSTONE R
RF1 Index: 10080014002
RF3 Index: 10080014121700.00
Description:

LAT/LON: 44.858616/-108.331116
Depth of Water: 0
Elevation: 0
RF1 Mile Point: 0.240
RF3 Mile Point: 0.78

Agency: 11NATDC
FIPS State/County: 56003 WYOMING/BIG HORN
STORET Station ID(s): T0708121 /2094
Within Park Boundary: No
Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 6.80
Distance from RF3: 0.03

Date Created: 07/20/85
On/Off RF1: ON
On/Off RF3:

Parameter Inventory for Station: BICA0027

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

***** Data for this station locked by controlling agency *****

Station Inventory for Station: BICA0028

NPS Station ID: BICA0028
LAT/LON: 44.858892/-108.330559
Agency: 112WRD
Date Created: 05/18/77
Location: SHOSHONE R BL SAND DRAW NR LOVEL
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 445132108195000
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080014
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10080014002
RF1 Mile Point: 0.140
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10080010003700.00
RF3 Mile Point: 0.00
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: BICA0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/16/76-09/16/76	1	889.	889.	889.	889.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: BICA0029

NPS Station ID: BICA0029 LAT/LON: 44.861588/-108.208116 Agency: 11NPSWRD Date Created: 11/15/97
Location: SHOSHONE RIVER 1 MILE NORTH OF KANE WYOMING FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): BICA_SOLT_SHOSH
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE KANE WYOMING-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON THE SHOSHONE RIVER APPROXIMATELY 1 MILE NORTH OF KANE WYOMING AND 1.5 MILES UPSTREAM FROM ITS MOUTH INTO BIGHORN LAKE. SAMPLES FROM THIS SITE WERE TAKEN DURING A STUDY OF THE POTENTIAL DECLINE IN FISH PRODUCTION OF A NEWLY IMPOUNDED RESERVOIR. SAMPLING WAS DONE FROM 1968 THROUGH 1970; AND THE RESULTS WERE PUBLISHED IN THE THESIS "LIMNOLOGICAL STUDIES ON BIGHORN LAKE AND ITS TRIBUTARIES" BY RAYMOND SOLTERO (MONTANA STATE UNIVERSITY; JUNE 1971). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/22/68-08/18/69	41	14.7	13.032	25.	0.	49.667	7.047	1.	6.65	19.	21.04
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/22/68-08/18/69	44	225.	396.795	2540.	22.	296993.701	544.971	33.	121.5	370.75	1052.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/22/68-08/18/69	42	950.	987.	1684.	507.	47563.317	218.09	747.7	841.	1126.	1300.5
00403	PH, LAB, STANDARD UNITS SU	02/22/68-08/18/69	43	8.3	8.263	8.5	7.7	0.047	0.216	7.84	8.2	8.4	8.46
00403	CONVERTED PH, LAB, STANDARD UNITS	02/22/68-08/18/69	43	8.3	8.199	8.5	7.7	0.051	0.226	7.84	8.2	8.4	8.46
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/22/68-08/18/69	43	0.005	0.006	0.02	0.003	0.	0.004	0.003	0.004	0.006	0.015
00406	PH, FIELD, STANDARD UNITS SU	02/22/68-08/11/69	38	8.24	8.195	8.56	7.35	0.087	0.296	7.732	8.11	8.4	8.5
00406	CONVERTED PH, FIELD, STANDARD UNITS	02/22/68-08/11/69	38	8.24	8.064	8.56	7.35	0.105	0.324	7.732	8.11	8.4	8.5
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/22/68-08/11/69	38	0.006	0.009	0.045	0.003	0.	0.01	0.003	0.004	0.008	0.019
00440	BICARBONATE ION (MG/L AS HCO3)	02/22/68-08/18/69	45	208.	214.289	384.	110.	2460.392	49.602	159.	176.5	250.	282.2
00600	NITROGEN, TOTAL (MG/L AS N)	02/22/68-08/11/69	42	0.94	0.934	2.82	0.03	0.248	0.498	0.183	0.603	1.193	1.431
00602	NITROGEN, DISSOLVED (MG/L AS N)	02/22/68-08/11/69	35	0.53	0.602	1.7	0.	0.167	0.409	0.13	0.32	0.84	1.328
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/22/68-08/18/69	43	0.23	0.268	0.71	0.	0.031	0.175	0.074	0.15	0.34	0.59
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	02/22/68-08/18/69	43	0.01	0.011	0.029	0.	0.	0.005	0.005	0.008	0.013	0.018
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/22/68-08/18/69	44	0.8	0.816	1.67	0.	0.147	0.384	0.345	0.555	1.073	1.375
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	02/22/68-08/18/69	44	0.575	0.636	2.23	0.	0.275	0.525	0.04	0.225	0.873	1.28
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	02/22/68-08/18/69	38	0.085	0.112	1.1	0.	0.036	0.189	0.	0.008	0.12	0.22
00655	PHOSPHATE, POLY (MG/L AS PO4)	01/18/69-08/18/69	26	0.115	0.13	0.46	0.	0.017	0.13	0.	0.008	0.228	0.31
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/22/68-08/18/69	45	0.07	0.1	0.64	0.	0.014	0.118	0.	0.015	0.14	0.254
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/19/68-08/18/69	31	14.8	16.3	38.6	4.9	80.427	8.968	5.72	7.7	21.4	29.66
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	08/19/68-08/18/69	31	7.5	8.994	24.9	1.5	21.06	4.589	4.92	6.4	11.4	15.4
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	08/19/68-08/18/69	31	2.7	7.116	27.	0.	65.896	8.118	0.	0.6	12.1	21.6

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

Parameter Inventory for Station: BICA0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00916	CALCIUM, TOTAL (MG/L AS CA)	02/22/68-08/18/69	45	79.8	83.858	152.7	28.1	640.025	25.299	57.14	72.45	92.9	120.6
00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/22/68-08/18/69	45	25.9	26.111	46.7	10.5	61.742	7.858	16.1	21.35	30.5	37.88
00929	SODIUM, TOTAL (MG/L AS NA)	02/22/68-08/18/69	45	100.	102.243	157.24	39.54	863.642	29.388	64.83	78.505	126.785	141.426
00937	POTASSIUM, TOTAL MG/L AS K)	02/22/68-08/18/69	45	5.08	5.238	8.6	2.35	1.676	1.295	3.91	4.3	5.86	7.04
00940	CHLORIDE,TOTAL IN WATER MG/L	02/22/68-08/18/69	45	11.	10.956	24.	5.	11.634	3.411	7.	9.	12.5	15.
00945	SULFATE, TOTAL (MG/L AS SO4)	02/22/68-08/18/69	45	302.	330.956	650.	149.	14288.043	119.533	199.	257.	367.5	523.
00951	FLUORIDE, TOTAL (MG/L AS F)	02/22/68-08/18/69	45	0.76	0.832	2.09	0.38	0.091	0.301	0.57	0.76	0.95	1.14
00956	SILICA, TOTAL (MG/L AS SI02)	03/07/68-08/18/69	43	13.6	13.835	18.5	7.6	5.735	2.395	10.84	12.5	16.	16.92
01042	COPPER, TOTAL (UG/L AS CU)	02/22/68-08/18/69	44	1.	2.139	21.	0.5	9.572	3.094	0.8	1.	2.	3.5
01055	MANGANESE, TOTAL (UG/L AS MN)	02/22/68-08/18/69	44	26.5	115.477	560.	1.	21493.744	146.607	3.5	10.25	184.5	368.5
01092	ZINC, TOTAL (UG/L AS ZN)	03/28/68-08/18/69	40	32.5	50.625	173.	4.	2441.317	49.41	8.2	16.5	55.5	141.
74010	IRON, TOTAL (MG/L AS FE)	02/22/68-08/18/69	43	0.26	0.863	3.9	0.001	1.377	1.173	0.009	0.04	1.17	3.232

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

EPA Water Quality Criteria Analysis for Station: BICA0029

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
							Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	44	37	0.84	22	15	0.68	12	12	1.00	10	10	1.00			
00403	PH, LAB	Fresh Chronic	9.	43	0	0.00	21	0	0.00	13	0	0.00	9	0	0.00			
		Other-Lo Lim.	6.5	43	0	0.00	21	0	0.00	13	0	0.00	9	0	0.00			
00406	PH, FIELD	Fresh Chronic	9.	38	0	0.00	17	0	0.00	12	0	0.00	9	0	0.00			
		Other-Lo Lim.	6.5	38	0	0.00	17	0	0.00	12	0	0.00	9	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	43	0	0.00	21	0	0.00	12	0	0.00	10	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	44	0	0.00	22	0	0.00	12	0	0.00	10	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	45	0	0.00	22	0	0.00	13	0	0.00	10	0	0.00			
		Drinking Water	250.	45	0	0.00	22	0	0.00	13	0	0.00	10	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	45	35	0.78	22	15	0.68	13	12	0.92	10	8	0.80			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	45	0	0.00	22	0	0.00	13	0	0.00	10	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	44	1	0.02	22	1	0.05	12	0	0.00	10	0	0.00			
		Drinking Water	1300.	44	0	0.00	22	0	0.00	12	0	0.00	10	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	40	6	0.15	20	1	0.05	12	3	0.25	8	2	0.25			
		Drinking Water	5000.	40	0	0.00	20	0	0.00	12	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: BICA0030

NPS Station ID: BICA0030
LAT/LON: 44.863615/-108.113616
Agency: 11NPSWRD
Date Created: 11/08/97
Location: W00113
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_038 /1151476
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE COTTONWOOD CANYON WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0030

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/05/76-08/05/76	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/05/76-08/05/76	1	700.	700.	700.	700.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/05/76-08/05/76	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/05/76-08/05/76	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/05/76-08/05/76	1	0.158	0.158	0.158	0.158	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/05/76-08/05/76	1	2.19	2.19	2.19	2.19	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0030

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0031

NPS Station ID: BICA0031 LAT/LON: 44.868920/-108.181504 Agency: 11NPSWRD Date Created: 12/20/97
Location: BIGHORN LAKE 1 MILE EAST OF SHOSHONE RIVER INLET FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): BICA_EPA_1E
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE KANE WYOMING-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE APPROXIMATELY 1 MILE EAST OF THE SHOSHONE RIVER INLET. SAMPLES FOR THIS SITE WERE COLLECTED IN MAY; AUGUST; AND OCTOBER 1975. SAMPLES WERE ANALYZED FOR CHLOROPHYLL A AND SECCHI DEPTH. AN INVERSE RELATIONSHIP WAS OBSERVED BETWEEN PLANKTONIC ALGAL CHLOROPHYLL AND SECCHI DEPTH. THE RESULTS WERE PUBLISHED IN THE REPORT "EVALUATION OF WATER QUALITY AND RATE OF SEDIMENTATION IN BIGHORN LAKE; BIGHORN CANYON NATIONAL RECREATION AREA" BY G. FRED LEE AND R. ANNE JONES (COLORADO STATE UNIVERSITY; DECEMBER 1981). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/29/75-10/17/75	2	0.455	0.455	0.61	0.3	0.048	0.219	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/21/75-10/17/75	3	7.9	9.433	16.9	3.5	46.653	6.83	**	**	**	**

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

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

Station Inventory for Station: BICA0032

NPS Station ID: BICA0032
LAT/LON: 44.875281/-108.213338
Agency: 21WYDHSS
Date Created: 11/03/84
Location: YELLOWTAIL RESERVOIR-BELOW INLET
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): 090303-1
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080014
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080014
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10080010005409.01
RF3 Mile Point: 9.04
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: BICA0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/84-08/07/85	6	25.5	25.333	29.	23.	5.067	2.251	**	**	**	**
00400	PH (STANDARD UNITS)	06/13/84-08/07/85	6	8.575	8.533	9.	8.	0.144	0.379	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/13/84-08/07/85	6	8.574	8.397	9.	8.	0.166	0.407	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/13/84-08/07/85	6	0.003	0.004	0.01	0.001	0.	0.003	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/13/84-08/07/85	6	0.245	0.443	1.26	0.005	0.232	0.482	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/13/84-08/07/85	6	0.099	0.123	0.23	0.06	0.005	0.072	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/13/84-08/07/85	6	297.	569.	1345.	197.	245561.6	495.542	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/13/84-08/07/85	6	0.485	0.51	0.72	0.37	0.022	0.147	**	**	**	**
31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	06/13/84-07/31/86	6	66.	85.667	250.	2.	8415.067	91.734	**	**	**	**
31613	LOG FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24	06/13/84-07/31/86	6	1.81	1.566	2.398	0.301	0.602	0.776	**	**	**	**
31613	GM FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24H	GEOMETRIC MEAN =			36.83								

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

EPA Water Quality Criteria Analysis for Station: BICA0032

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	6	1	0.17				2	1	0.50	4	0	0.00			
		Other-Lo Lim.	6.5	6	0	0.00				2	0	0.00	4	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	6	0	0.00				2	0	0.00	4	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	6	0	0.00				2	0	0.00	4	0	0.00			
31613	FECAL COLIFORM, MEMBRANE FILTER, AGAR	Other-Hi Lim.	200.	6	1	0.17				2	1	0.50	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: BICA0033

NPS Station ID: BICA0033
LAT/LON: 44.875615/-108.380615
Agency: 11NPSWRD
Date Created: 11/08/97
Location: W00223
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_140 /1151536
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080014
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080014
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE COWLEY WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/76-07/24/76	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/24/76-07/24/76	1	800.	800.	800.	800.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/24/76-07/24/76	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/24/76-07/24/76	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/24/76-07/24/76	1	0.158	0.158	0.158	0.158	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/24/76-07/24/76	1	8.32	8.32	8.32	8.32	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0033

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0034

NPS Station ID: BICA0034 LAT/LON: 44.882504/-108.181392 Agency: 11EPALES Date Created: / /
Location: YELLOWTAIL RESERVOIR FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 561401
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 7 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 10080010036 RF1 Mile Point: 8.730 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 10080010003401.09 RF3 Mile Point: 1.08 Distance from RF3: 0.02 On/Off RF3:
Description:
S END JUST BEFORE FIRST SET OF NARROWS; 120 DEGREES FR LG HILL (HILL A ON MAP), 1/3 MILE FR HILL; EQUIDISTANT BETWEEN SHORES; 2 MILES N OF BRIDGE. COMMENTS: 5-21 NO ULE, VERY BROWN; 1% LIGHT, 3 IN; SURF SAMPLE ONLY.
8-29 ULE 16; 1% LIGHT, 2.5M; INTEG 14 FT; DEPTH 18 FT. 10-17 ULE 17; WATER VERY TURBID; 1% LIGHT, 2.0M; DEPTH 9 FT.
MAP: NATURAL TRAP CAVE QUAD

Parameter Inventory for Station: BICA0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/21/75-10/17/75	6	14.6	14.083	19.3	7.8	31.658	5.627	**	**	**	**
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	05/21/75-10/17/75	6	59.5	50.833	74.	0.	699.767	26.453	**	**	**	**
00077	TRANSPARENCY, SECCHI DISC (INCHES)	08/29/75-10/17/75	2	18.	18.	24.	12.	72.	8.485	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/21/75-10/17/75	6	715.	664.667	759.	384.	19909.067	141.099	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/21/75-10/17/75	6	8.4	8.167	9.	6.6	0.823	0.907	**	**	**	**
00400	PH (STANDARD UNITS)	05/21/75-10/17/75	6	8.525	8.408	8.7	7.7	0.148	0.385	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/21/75-10/17/75	6	8.507	8.232	8.7	7.7	0.186	0.431	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/21/75-10/17/75	6	0.003	0.006	0.02	0.002	0.	0.007	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/21/75-10/17/75	7	162.	153.	186.	124.	511.333	22.613	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/21/75-10/17/75	7 ##	0.01	0.023	0.05	0.01	0.	0.017	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/21/75-10/17/75	7	0.2	0.257	0.5	0.1	0.016	0.127	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/21/75-10/17/75	7	0.26	0.304	0.44	0.22	0.009	0.093	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/29/75-10/17/75	6	0.044	0.046	0.085	0.02	0.	0.022	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/21/75-10/17/75	7	0.008	0.011	0.02	0.004	0.	0.007	**	**	**	**
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	05/21/75-10/17/75	3	7.9	9.433	16.9	3.5	46.653	6.83	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	05/21/75-10/17/75	3	9.	11.333	18.	7.	34.333	5.859	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0034

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	6	0	0.00	5	0	0.00	1	0	0.00						
00400	PH	Fresh Chronic	9.	6	0	0.00	5	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	6	0	0.00	5	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: BICA0034

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	7	0	0.00	6	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: BICA0035

NPS Station ID: BICA0035
Location: BIG HORN R AT KANE, WYO
Station Type: /TYPA/AMBNT/STREAM
RMI-Indexes:
RMI-Miles:
HUC: 10080010
Major Basin: MISSOURI RIVER
Minor Basin: YELLOWSTONE RIVER
RF1 Index: 10080010
RF3 Index: 10080014004800.00
Description:

LAT/LON: 44.916670/-108.166671

Depth of Water: 0
Elevation: 0

RF1 Mile Point: 0.000
RF3 Mile Point: 0.75

Agency: 21MTHDWQ
FIPS State/County: 56003 WYOMING/BIG HORN
STORET Station ID(s): 8399BI01
Within Park Boundary: No

Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 4.10
Distance from RF3: 0.35

Date Created: 12/18/93

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: BICA0035

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: BICA0036

NPS Station ID: BICA0036 LAT/LON: 44.916670/-108.216670 Agency: 11NPSWRD Date Created: 11/01/97
Location: YELLOWTAIL RESERVOIR EAST OF LOVELL WY FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): BICA_WRDS_5 /42074502:0
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 4400 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
The Wyoming Game and Fish Department collected the data stored at this station. The Wyoming Water Resources Center entered these data into the Wyoming Water Resources Data System (WRDS) which is a clearinghouse of hydrological and climatological data for the State of Wyoming. WRDS can be accessed on-line at: WWW-WWRC.UWYO.EDU/WRDS. WRDS staff can be contacted at PO Box 3067 Laramie WY 82071-3067; Tel. 307-766-6651; Fax. 307-766-3785; E-Mail: WRDS@UWYO.EDU. This was one of 9 stations for Bighorn Canyon NRA that were uploaded to STORET from the WRDS. These data are locked in STORET (can't be accessed without the NPS Unlocking Key) so the Wyoming Water Resources Center doesn't provide duplicative data to its clients (from STORET & WRDS). The station is located on the Natural Trap Cave 7.5' USGS topographic quadrangle. The data were uploaded to STORET by Dean Tucker; National Park Service Water Resources Division; 1201 Oak Ridge Drive Suite 250; Fort Collins CO 80525 (tel. 970-225-3516).

Parameter Inventory for Station: BICA0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/16/68-12/16/68	3 ##	0.	0.333	1.	0.	0.333	0.577	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	12/16/68-04/15/69	4	9.55	9.5	10.6	8.3	1.62	1.273	**	**	**	**
00400	PH (STANDARD UNITS)	12/16/68-10/26/70	10	8.1	8.02	8.3	7.5	0.086	0.294	7.5	7.875	8.225	8.3
00400	CONVERTED PH (STANDARD UNITS)	12/16/68-10/26/70	10	8.1	7.914	8.3	7.5	0.099	0.314	7.5	7.875	8.225	8.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/16/68-10/26/70	10	0.008	0.012	0.032	0.005	0.	0.01	0.005	0.006	0.015	0.032
00405	CARBON DIOXIDE (MG/L AS CO2)	12/16/68-07/12/69	8 ##	1.	1.	2.	0.	1.143	1.069	**	**	**	**
00411	ALKALINITY,METHYLORANGE MG/L	12/16/68-10/26/70	10	162.	157.2	175.	132.	214.844	14.658	132.	146.25	166.	174.4
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	12/16/68-10/26/70	10	1.	3.6	10.	0.	18.933	4.351	0.	0.	7.75	10.
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	12/16/68-10/26/70	8	0.04	0.063	0.18	0.03	0.003	0.054	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/16/68-10/26/70	8	67.2	66.063	83.5	50.4	150.846	12.282	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/16/68-10/26/70	8	22.35	21.85	27.2	15.	19.897	4.461	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/16/68-10/26/70	8	75.5	78.625	118.	53.	666.839	25.823	**	**	**	**
00931	SODIUM ADSORPTION RATIO	12/16/68-10/26/70	8	2.05	2.113	2.9	1.6	0.261	0.511	**	**	**	**
00932	SODIUM, PERCENT	12/16/68-10/26/70	8	39.	39.5	45.	35.	14.286	3.78	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/16/68-10/26/70	8	3.	3.148	4.2	2.	0.639	0.799	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/16/68-10/26/70	8	11.	11.5	17.	7.	19.429	4.408	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/16/68-10/26/70	8	255.5	263.875	382.	187.	6238.125	78.982	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	12/16/68-10/26/70	8	1.	1.	1.	1.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	12/16/68-10/26/70	8	185.	213.75	325.	150.	3719.643	60.989	**	**	**	**

** - Less than 9 observations ## - 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: BICA0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01040	COPPER, DISSOLVED (UG/L AS CU)	12/16/68-10/26/70	8 ##	1.	3.5	10.	0.	20.286	4.504	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	12/16/68-10/26/70	8	20.	48.	120.	12.	2208.	46.989	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/16/68-10/26/70	8	9.	14.25	42.	0.	261.071	16.158	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	12/16/68-10/26/70	8	8.	5.625	12.	0.	21.125	4.596	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	12/16/68-10/26/70	8	35.	38.75	78.	10.	597.357	24.441	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/16/68-10/26/70	8	598.	599.5	800.	424.	20856.857	144.419	**	**	**	**
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	12/16/68-07/12/69	6	0.11	0.11	0.23	0.01	0.007	0.086	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	12/16/68-10/26/70	8	0.25	0.27	0.5	0.008	0.036	0.189	**	**	**	**
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	12/16/68-04/15/69	4	0.002	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 time series plot

EPA Water Quality Criteria Analysis for Station: BICA0036

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	4	0	0.00	2	0	0.00	2	0	0.00						
00400	PH	Fresh Chronic	9.	10	0	0.00	6	0	0.00	2	0	0.00	2	0	0.00			
		Other-Lo Lim.	6.5	10	0	0.00	6	0	0.00	2	0	0.00	2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	250.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	8	4	0.50	4	2	0.50	2	2	1.00	2	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	1300.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	5000.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
71856	NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	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: BICA0037

NPS Station ID: BICA0037
LAT/LON: 44.921392/-108.060615
Agency: 11NPSWRD
Date Created: 11/08/97
Location: W00109
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_049 /1151473
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE SIMMONS CANYON WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/05/76-08/05/76	1	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/05/76-08/05/76	1	700.	700.	700.	700.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/05/76-08/05/76	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/05/76-08/05/76	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/05/76-08/05/76	1	0.158	0.158	0.158	0.158	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/05/76-08/05/76	1	7.73	7.73	7.73	7.73	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0037

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0038

NPS Station ID: BICA0038
LAT/LON: 44.922198/-108.137809
Agency: 11NPSWRD
Date Created: 11/08/97
Location: W00250
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_046 /1151477
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE NATURAL TRAP CAVE WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/31/76-07/31/76	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/31/76-07/31/76	1	380.	380.	380.	380.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/31/76-07/31/76	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/31/76-07/31/76	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/31/76-07/31/76	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/31/76-07/31/76	1	0.76	0.76	0.76	0.76	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0038

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0039

NPS Station ID: BICA0039
LAT/LON: 44.929726/-108.217698
Agency: 11NPSWRD
Date Created: 11/15/97
Location: BIGHORN LAKE 50 MILES FROM DAM
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): BICA_SOLT_5
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE NATURAL TRAP CAVE WYOMING-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE APPROXIMATELY 50 MILES SOUTH OF YELLOWTAIL DAM. SAMPLES FROM THIS SITE WERE TAKEN DURING A STUDY OF THE POTENTIAL DECLINE IN FISH PRODUCTION OF A NEWLY IMPOUNDED RESERVOIR. SAMPLING WAS DONE FROM 1968 THROUGH 1970; AND THE RESULTS WERE PUBLISHED IN THE THESIS "LIMNOLOGICAL STUDIES ON BIGHORN LAKE AND ITS TRIBUTARIES" BY RAYMOND SOLTERO (MONTANA STATE UNIVERSITY; JUNE 1971). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/05/68-11/02/68	45	15.5	15.676	23.9	7.8	18.391	4.289	10.22	12.35	18.9	22.2
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/05/68-07/28/69	12	61.5	411.833	3350.	36.	912504.879	955.251	36.9	40.25	198.75	2607.5
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	09/09/68-09/08/70	90	62.5	58.022	100.	3.	562.089	23.708	23.2	39.	78.25	85.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/05/68-11/02/68	45	900.	862.444	1070.	100.	31030.253	176.154	633.	835.	957.5	1038.
00406	PH, FIELD, STANDARD UNITS SU	05/05/68-09/08/70	51	8.45	8.399	8.79	7.55	0.049	0.222	8.138	8.3	8.5	8.646
00406	CONVERTED PH, FIELD, STANDARD UNITS	05/05/68-09/08/70	51	8.45	8.328	8.79	7.55	0.054	0.233	8.138	8.3	8.5	8.646
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/05/68-09/08/70	51	0.004	0.005	0.028	0.002	0.	0.004	0.002	0.003	0.005	0.007
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/05/68-09/08/70	55	0.1	0.185	1.04	0.	0.043	0.207	0.	0.03	0.33	0.462
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/05/68-09/08/70	55	0.01	0.013	0.04	0.	0.	0.008	0.006	0.01	0.018	0.026
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/05/68-09/08/70	56	0.515	0.525	1.23	0.09	0.06	0.246	0.234	0.35	0.65	0.872
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/05/68-09/08/70	53	0.09	0.119	0.72	0.	0.025	0.16	0.	0.01	0.135	0.33
01042	COPPER, TOTAL (UG/L AS CU)	04/15/69-08/11/69	16	1.	1.25	3.	0.	0.467	0.683	0.7	1.	1.75	2.3
01055	MANGANESE, TOTAL (UG/L AS MN)	04/15/69-08/11/69	15	14.	36.	299.	0.	5658.714	75.224	0.6	1.	35.	159.2
01092	ZINC, TOTAL (UG/L AS ZN)	04/15/69-08/11/69	16	17.	19.625	84.	0.	402.917	20.073	0.	6.5	24.	49.7
32238	CHLOROPHYLL-A,PHYTOPLANKTON,FLURORMETRIC MTH MG/M3	05/05/68-09/08/70	50	9.8	14.394	48.	1.2	134.845	11.612	3.5	5.3	24.2	33.95
74010	IRON, TOTAL (MG/L AS FE)	05/05/69-08/11/69	13	0.13	0.135	0.29	0.01	0.008	0.087	0.018	0.055	0.2	0.27

** - 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

EPA Water Quality Criteria Analysis for Station: BICA0039

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	12	7	0.58	3	1	0.33	5	3	0.60	4	3	0.75			
00406	PH, FIELD	Fresh Chronic	9.	51	0	0.00	16	0	0.00	16	0	0.00	19	0	0.00			
		Other-Lo Lim.	6.5	51	0	0.00	16	0	0.00	16	0	0.00	19	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	55	0	0.00	17	0	0.00	18	0	0.00	20	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	56	0	0.00	18	0	0.00	18	0	0.00	20	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	16	0	0.00	1	0	0.00	10	0	0.00	5	0	0.00			
		Drinking Water	1300.	16	0	0.00	1	0	0.00	10	0	0.00	5	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	16	0	0.00	1	0	0.00	10	0	0.00	5	0	0.00			
		Drinking Water	5000.	16	0	0.00	1	0	0.00	10	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: BICA0040

NPS Station ID: BICA0040
LAT/LON: 44.934198/-108.086393
Agency: 11NPSWRD
Date Created: 11/08/97
Location: W00108
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_052 /1151472
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE SIMMONS CANYON WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/05/76-08/05/76	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/05/76-08/05/76	1	650.	650.	650.	650.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/05/76-08/05/76	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/05/76-08/05/76	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/05/76-08/05/76	1	0.251	0.251	0.251	0.251	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/05/76-08/05/76	1	7.98	7.98	7.98	7.98	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0040

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0041

NPS Station ID: BICA0041
LAT/LON: 44.935310/-108.138310
Agency: 11NPSWRD
Date Created: 11/08/97
Location: W00251
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_047 /1151478
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE NATURAL TRAP CAVE WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/31/76-07/31/76	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/31/76-07/31/76	1	900.	900.	900.	900.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/31/76-07/31/76	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/31/76-07/31/76	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/31/76-07/31/76	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/31/76-07/31/76	1	14.7	14.7	14.7	14.7	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: BICA0041

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0042

NPS Station ID: BICA0042 LAT/LON: 44.946587/-108.248892 Agency: 11NPSWRD Date Created: 12/20/97
Location: BIGHORN LAKE AT WEST END OF THE NARROWS FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): BICA_EPA_2E
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE NATURAL TRAP CAVE WYOMING-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE AT THE WEST END OF THE NARROWS. SAMPLES FOR THIS SITE WERE COLLECTED IN MAY; AUGUST; AND OCTOBER 1975. SAMPLES WERE ANALYZED FOR CHLOROPHYLL A AND SECCHI DEPTH. AN INVERSE RELATIONSHIP WAS OBSERVED BETWEEN PLANKTONIC ALGAL CHLOROPHYLL AND SECCHI DEPTH. THE RESULTS WERE PUBLISHED IN THE REPORT "EVALUATION OF WATER QUALITY AND RATE OF SEDIMENTATION IN BIGHORN LAKE; BIGHORN CANYON NATIONAL RECREATION AREA" BY G. FRED LEE AND R. ANNE JONES (COLORADO STATE UNIVERSITY; DECEMBER 1981). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/21/75-10/17/75	3	0.61	0.99	2.13	0.23	1.011	1.005	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/21/75-10/17/75	3	6.9	17.1	41.8	2.6	462.19	21.499	**	**	**	**

** - 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 time series plot

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

Station Inventory for Station: BICA0043

NPS Station ID: BICA0043 LAT/LON: 44.947199/-108.079699 Agency: 11NPSWRD Date Created: 11/08/97
Location: W00107 FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): BICA_NURE_118 /1151512
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE SITE IS LOCATED ON THE SIMMONS CANYON WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/05/76-08/05/76	1	17.5	17.5	17.5	17.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/05/76-08/05/76	1	2400.	2400.	2400.	2400.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/05/76-08/05/76	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/05/76-08/05/76	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/05/76-08/05/76	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/05/76-08/05/76	1	8.43	8.43	8.43	8.43	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0043

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0044

NPS Station ID: BICA0044 LAT/LON: 44.950004/-108.250005 Agency: 11NPSWRD Date Created: 11/01/97
Location: HORSESHOE RESERVOIR NORTHEAST OF LOVELL WY FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): BICA_WRDS_1 /52075702:0
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 3750 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
The Wyoming Game and Fish Department collected the data stored at this station. The Wyoming Water Resources Center entered these data into the Wyoming Water Resources Data System (WRDS) which is a clearinghouse of hydrological and climatological data for the State of Wyoming. WRDS can be accessed on-line at: WWW-WWRC.UWYO.EDU/WRDS. WRDS staff can be contacted at PO Box 3067 Laramie WY 82071-3067; Tel. 307-766-6651; Fax. 307-766-3785; E-Mail: WRDS@UWYO.EDU. This was one of 9 stations for Bighorn Canyon NRA that were uploaded to STORET from the WRDS. These data are locked in STORET (can't be accessed without the NPS Unlocking Key) so the Wyoming Water Resources Center doesn't provide duplicative data to its clients (from STORET & WRDS). The station is located on the Sykes Spring 7.5' USGS topographic quadrangle. The data were uploaded to STORET by Dean Tucker; National Park Service Water Resources Division; 1201 Oak Ridge Drive Suite 250; Fort Collins CO 80525 (tel. 970-225-3516).

Parameter Inventory for Station: BICA0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/13/70-02/13/70	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	02/13/70-02/13/70	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00411	ALKALINITY,METHYLORANGE MG/L	02/13/70-02/13/70	1	62.	62.	62.	62.	0.	0.	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/13/70-02/13/70	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/13/70-02/13/70	1	86.	86.	86.	86.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0044

						----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	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: BICA0045

NPS Station ID: BICA0045
LAT/LON: 44.950004/-108.258337
Agency: 21WYDHSS
Date Created: / /
Location: YELLOWTAIL RES-HORSESHOE BEND
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 00R295
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI R. MAJOR BASIN
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER BASIN
ECO Region:
RF1 Index: 10080010036
RF1 Mile Point: 1.530
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 10080010005200.04
RF3 Mile Point: 0.04
Distance from RF3: 0.25
On/Off RF3:
Description:
YELLOWTAIL RESERVOIR BELOW HORSESHOE-BEND MARINA. SAMPLED QUARTERLY (ENDED SPRING OF 1971)

Parameter Inventory for Station: BICA0045

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: BICA0046

NPS Station ID: BICA0046
LAT/LON: 44.950004/-108.258337
Agency: 21WYDHSS
Date Created: / /
Location: BIG HORN LAKE BLW HORSESHOE BEND
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 00R286
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI R. MAJOR BASIN
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER BASIN
ECO Region:
RF1 Index: 10080010036
RF1 Mile Point: 1.530
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 10080014000600.00
RF3 Mile Point: 0.00
Distance from RF3: 0.03
On/Off RF3:
Description:
BIG HORN LAKE, BELOW HORSESHOE BEND MARING. SAMPLED QUARTERLY (ENDED SPRING OF 1971)

Parameter Inventory for Station: BICA0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01503	ALPHA, DISSOLVED	12/14/67-05/15/71	11	1.	1.836	7.	0.3	3.281	1.811	0.42	1.	2.	6.
01504	ALPHA, DISSOLVED, COUNTING ERROR	12/14/67-05/15/71	11	3.	3.273	12.	1.	9.818	3.133	1.	1.	3.	10.6
01505	ALPHA, SUSPENDED	12/14/67-05/15/71	12	0.9	4.05	17.	0.3	32.77	5.725	0.39	0.6	6.25	16.1
01506	ALPHA, SUSPENDED, COUNTING ERROR	12/14/67-05/15/71	12	1.5	2.917	8.	1.	7.356	2.712	1.	1.	4.75	8.
01507	ALPHA, GROSS IN SEDIMENT (PC/G OF DRY SOLIDS)	12/14/67-10/15/70	9	4.	4.111	7.	2.	3.361	1.833	2.	2.5	6.	7.
01508	ALPHA, GROSS IN SEDIMENT, COUNTING ERROR	12/14/67-10/15/70	9	5.	4.556	5.	4.	0.278	0.527	4.	4.	5.	5.
03503	BETA, DISSOLVED	12/14/67-05/15/71	14	7.5	7.571	15.	1.	16.725	4.09	1.5	4.5	11.25	13.5
03504	BETA, DISSOLVED, COUNTING ERROR	12/14/67-05/15/71	14	3.5	3.929	7.	3.	1.61	1.269	3.	3.	4.25	6.5
03505	BETA, SUSPENDED	12/14/67-05/15/71	13	5.	21.	154.	1.	1715.	41.413	1.4	2.5	24.	106.
03506	BETA, SUSPENDED, COUNTING ERROR	12/14/67-05/15/71	13	3.	12.538	115.	2.	953.103	30.872	2.	3.	5.	73.4
03507	BETA, GROSS IN SEDIMENT (PC/G OF DRY SOLIDS)	12/14/67-05/15/71	11	17.	16.364	28.	2.	77.255	8.789	3.	7.	23.	28.
03508	BETA, GROSS IN SEDIMENT, COUNTING ERROR	12/14/67-05/15/71	11	11.	10.818	12.	10.	0.764	0.874	10.	10.	12.	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 time series plot

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

Station Inventory for Station: BICA0047

NPS Station ID: BICA0047
LAT/LON: 44.950004/-108.258337
Agency: 21WYDHSS
Date Created: / /
Location: BIG HORN LAKE BLW HORSESHOE BEND
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 000286
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI R. MAJOR BASIN
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER BASIN
ECO Region:
RF1 Index: 10080010036
RF1 Mile Point: 1.530
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 10080010007302.75
RF3 Mile Point: 4.20
Distance from RF3: 0.01
On/Off RF3:
Description:
BIG HORN LAKE, BELOW HORSESHOE BEND MARINA

Parameter Inventory for Station: BICA0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	03/24/67-10/07/74	59	23.	3986.356	46000.	1.	62561101.13	7909.558	1.	1.	3480.	16000.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	03/24/67-10/07/74	59	1.362	1.866	4.663	0.	2.852	1.689	0.	0.	3.542	4.204
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			73.528								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/05/68-09/13/71	56	20.	688.518	9200.	1.	2944775.236	1716.035	1.	7.25	216.25	3480.
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/05/68-09/13/71	56	1.301	1.574	3.964	0.	1.304	1.142	0.	0.86	2.332	3.542
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			37.511								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/09/76-06/06/78	14	7.5	33.286	170.	0.	3335.297	57.752	0.	2.	35.	151.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/09/76-06/06/78	14	0.849	0.891	2.23	0.	0.578	0.76	0.	0.301	1.26	2.176
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			7.777								

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

EPA Water Quality Criteria Analysis for Station: BICA0047

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	59	20	0.34	26	8	0.31	11	5	0.45	22	7	0.32			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	56	14	0.25	25	7	0.28	14	3	0.21	17	4	0.24			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	14	0	0.00	4	0	0.00	4	0	0.00	6	0	0.00			

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

Annual Analysis for 1967 - Station BICA0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	03/24/67-10/07/74	12	1665.	6445.833	46000.	15.	170942621.97	13074.503	15.	230.	8975.	35500.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	03/24/67-10/07/74	12	3.174	2.948	4.663	1.176	1.207	1.099	1.176	2.362	3.897	4.476
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			886.852								

** - Less than 9 observations ## - Computed with 50% or 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 BICA0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	03/24/67-10/07/74	15	9200.	10390.	17200.	490.	40377228.571	6354.308	670.	3480.	16000.	16480.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	03/24/67-10/07/74	15	3.964	3.832	4.236	2.69	0.283	0.532	2.815	3.542	4.204	4.217
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			6794.36								

** - 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 1971 - Station BICA0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	03/24/67-10/07/74	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	03/24/67-10/07/74	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			1.								

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

Annual Analysis for 1972 - Station BICA0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	03/24/67-10/07/74	9	4.	5.444	20.	1.	38.528	6.207	1.	1.	8.	20.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	03/24/67-10/07/74	9	0.602	0.489	1.301	0.	0.252	0.502	0.	0.	0.9	1.301
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			3.084								

** - Less than 9 observations ## - Computed with 50% or 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 BICA0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	03/24/67-10/07/74	11	2.	27.909	172.	1.	2837.891	53.272	1.	1.	49.	151.6
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	03/24/67-10/07/74	11	0.301	0.656	2.236	0.	0.742	0.861	0.	0.	1.69	2.157
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			4.531								

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

Annual Analysis for 1974 - Station BICA0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	03/24/67-10/07/74	10 ##	1.	163.7	1600.	1.	254733.122	504.711	1.	1.	10.25	1442.3
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	03/24/67-10/07/74	10 ##	0.	0.565	3.204	0.	1.07	1.034	0.	0.	0.924	3.02
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			3.669								

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

Seasonal Analysis for Season #1: 8/10 to 4/14 - Station BICA0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	03/24/67-10/07/74	26	4.5	3483.615	16000.	1.	33459301.286	5784.402	1.	1.	9200.	16000.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	03/24/67-10/07/74	26	0.651	1.609	4.204	0.	3.163	1.778	0.	0.	3.964	4.204
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			40.605								

** - Less than 9 observations ## - Computed 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: 4/15 to 6/19 - Station BICA0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	03/24/67-10/07/74	11	490.	7629.091	46000.	1.	203619882.691	14269.544	1.	7.	16000.	40240.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	03/24/67-10/07/74	11	2.69	2.468	4.663	0.	2.785	1.669	0.	0.845	4.204	4.577
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			293.75								

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

Seasonal Analysis for Season #3: 6/20 to 8/09 - Station BICA0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	03/24/67-10/07/74	22	46.5	2759.136	16000.	1.	27152041.171	5210.762	1.	1.	2670.	14500.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	03/24/67-10/07/74	22	1.603	1.87	4.204	0.	2.513	1.585	0.	0.	3.421	4.155
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			74.208								

** - Less than 9 observations ## - Computed 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: BICA0048

NPS Station ID: BICA0048
LAT/LON: 44.952504/-108.156893
Agency: 11NPSWRD
Date Created: 11/08/97
Location: W00252
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_045 /1151479
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE NATURAL TRAP CAVE WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/31/76-07/31/76	1	16.5	16.5	16.5	16.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/31/76-07/31/76	1	1200.	1200.	1200.	1200.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/31/76-07/31/76	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/31/76-07/31/76	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/31/76-07/31/76	1	0.158	0.158	0.158	0.158	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/31/76-07/31/76	1	16.4	16.4	16.4	16.4	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: BICA0048

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0049

NPS Station ID: BICA0049
LAT/LON: 44.954726/-108.258893
Agency: 11EPALES
Date Created: / /
Location: YELLOWTAIL RESERVOIR
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 561402
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 24
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10080010036
RF1 Mile Point: 1.220
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 10080010103300.00
RF3 Mile Point: 0.00
Distance from RF3: 0.08
On/Off RF3:
Description:
S END BY BOAT RAMP; 120 DEGREES, 200 YDS FR BOAT RAMP. COMMENTS: 5-22 ULE 21; 1% LIGHT, 2.5 FT; INTEG 15 FT.
8-29 ULE 16; 1% LIGHT, 2M; INTEG 15 FT; DEPTH 52 FT. 10-17 ULE 10; 1% LIGHT, 5.0M; INTEG 15 FT; DEPTH 23 FT.
MAP: SYKES SPRING QUAD

Parameter Inventory for Station: BICA0049

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/75-10/17/75	12	13.8	13.892	20.2	7.6	27.341	5.229	7.63	7.95	19.825	20.2
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	05/22/75-10/17/75	12	72.	55.417	101.	0.	1876.629	43.32	0.3	5.5	101.	101.
00077	TRANSPARENCY, SECCHI DISC (INCHES)	05/22/75-10/17/75	3	24.	39.	84.	9.	1575.	39.686	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/22/75-10/17/75	12	572.	579.583	729.	413.	15719.356	125.377	414.2	445.5	725.	728.4
00300	OXYGEN, DISSOLVED MG/L	05/22/75-10/17/75	12	8.4	8.217	8.8	6.4	0.483	0.695	6.76	7.85	8.75	8.8
00400	PH (STANDARD UNITS)	05/22/75-10/17/75	12	8.375	8.304	8.65	8.	0.06	0.244	8.	8.	8.488	8.635
00400	CONVERTED PH (STANDARD UNITS)	05/22/75-10/17/75	12	8.374	8.241	8.65	8.	0.064	0.253	8.	8.	8.487	8.635
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/22/75-10/17/75	12	0.004	0.006	0.01	0.002	0.	0.003	0.002	0.003	0.01	0.01
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/22/75-10/17/75	13	136.	144.615	175.	123.	339.423	18.423	123.8	126.	159.5	172.2
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/22/75-10/17/75	13	0.04	0.053	0.09	0.02	0.001	0.03	0.02	0.02	0.085	0.09
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/22/75-10/17/75	13	0.4	0.423	1.2	0.1	0.08	0.283	0.14	0.2	0.55	0.96
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/22/75-10/17/75	13	0.26	0.345	0.83	0.08	0.044	0.209	0.08	0.215	0.49	0.706
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/75-10/17/75	13	0.061	0.157	0.95	0.026	0.063	0.25	0.027	0.038	0.201	0.669
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/22/75-10/17/75	13	0.017	0.02	0.045	0.006	0.	0.013	0.006	0.01	0.033	0.043
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	05/22/75-10/17/75	3	6.9	17.1	41.8	2.6	462.19	21.499	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	05/22/75-10/17/75	3	24.	33.	52.	23.	271.	16.462	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0049

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	12	0	0.00	8	0	0.00	4	0	0.00						
00400	PH	Fresh Chronic	9.	12	0	0.00	8	0	0.00	4	0	0.00						
		Other-Lo Lim.	6.5	12	0	0.00	8	0	0.00	4	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: BICA0050

NPS Station ID: BICA0050
LAT/LON: 44.956226/-108.259588
Agency: 11NPSWRD
Date Created: 12/20/97
Location: BIGHORN LAKE AT HORSESHOE BEND
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): BICA_CSU_HORSHO
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SYKES SPRING WYOMING-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE IN THE HORSESHOE BEND AREA. SAMPLES FOR THIS SITE WERE COLLECTED FROM JUNE 1980 TO NOVEMBER 1980. SAMPLES WERE ANALYZED FOR TEMPERATURE; PH; SPECIFIC CONDUCTANCE; TURBIDITY; SOLUBLE ORTHOPHOSPHATE; TOTAL PHOSPHATE; TOTAL AMMONIA; NITRATE; AND ALKALINITY. THE RESULTS WERE PUBLISHED IN THE REPORT "EVALUATION OF WATER QUALITY AND RATE OF SEDIMENTATION IN BIGHORN LAKE; BIGHORN CANYON NATIONAL RECREATION AREA" BY G. FRED LEE AND R. ANNE JONES (COLORADO STATE UNIVERSITY; DECEMBER 1981). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/09/80-11/26/80	9	18.	17.722	23.	4.	40.444	6.36	4.	14.5	23.	23.
00078	TRANSPARENCY, SECCHI DISC (METERS)	06/09/80-11/26/80	9	0.53	0.673	1.5	0.3	0.153	0.392	0.3	0.35	0.915	1.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/09/80-11/26/80	7	682.	654.714	755.	490.	10135.571	100.676	**	**	**	**
00400	PH (STANDARD UNITS)	06/09/80-11/26/80	8	8.	8.025	8.3	7.7	0.034	0.183	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/09/80-11/26/80	8	8.	7.99	8.3	7.7	0.035	0.187	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/09/80-11/26/80	8	0.01	0.01	0.02	0.005	0.	0.005	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/09/80-07/23/80	3	170.	170.333	186.	155.	240.333	15.503	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/09/80-08/06/80	4	0.019	0.035	0.097	0.005	0.002	0.042	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/09/80-08/06/80	4	0.195	0.293	0.63	0.15	0.051	0.226	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/09/80-08/06/80	4	0.075	0.11	0.24	0.05	0.008	0.088	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/09/80-11/26/80	9	0.005	0.011	0.06	0.002	0.	0.019	0.002	0.003	0.009	0.06
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	06/09/80-11/26/80	9	13.	21.222	69.	2.	459.444	21.435	2.	7.	34.	69.
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	06/09/80-11/26/80	8	8.5	8.75	17.	3.	22.214	4.713	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0050

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
		Other-Lo Lim.	6.5	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	4	0	0.00				1	0	0.00	3	0	0.00			
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	8	0	0.00	5	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: BICA0051

NPS Station ID: BICA0051 LAT/LON: 44.957226/-108.260698 Agency: 11NPSWRD Date Created: 01/31/98
Location: BIGHORN LAKE AT HORSESHOE BEND BOAT DOCK FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): BICA_NPS_HSB_BD
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SYKES SPRING WYOMING-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE AT THE HORSESHOE BEND BOAT DOCK. THE BOAT DOCK IS LOCATED AT THE END OF THE ROAD THAT GOES TO HORSESHOE BEND. SAMPLES FOR THIS SITE WERE COLLECTED FROM 1974 TO 1995 BY THE STAFF AT BIGHORN CANYON NATIONAL RECREATION AREA. SAMPLES WERE ANALYZED FOR TOTAL COLIFORM AND FECAL COLIFORM. THE RESULTS WERE OBTAINED FROM THE NATURAL RESOURCES DEPARTMENT AT BIGHORN CANYON NATIONAL RECREATION AREA. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	07/20/89-09/06/95	7	20.	120.286	309.	0.	21520.905	146.7	**	**	**	**
31506	LOG COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	07/20/89-09/06/95	7	1.301	1.27	2.49	0.	1.37	1.171	**	**	**	**
31506	GM COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	GEOMETRIC MEAN =			18.642								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	137	8.	252.204	16000.	0.	1975564.708	1405.548	1.	2.	49.	341.
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	137	0.903	1.128	4.204	0.	0.909	0.954	0.	0.301	1.69	2.533
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			13.437								

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

EPA Water Quality Criteria Analysis for Station: BICA0051

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31506	COLIFORM, TOTAL, MPN, CONF. TEST, TUBE C	Other-Hi Lim.	1000.	7	0	0.00	2	0	0.00				5	0	0.00			
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	137	16	0.12	79	7	0.09	30	7	0.23	28	2	0.07			

& - 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 BICA0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	7	2.	5.143	23.	1.	65.143	8.071	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	7	0.301	0.392	1.362	0.	0.261	0.511	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			2.464								

** - Less than 9 observations ## - Computed with 50% or 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 BICA0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	5	4.	3.2	5.	1.	4.2	2.049	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	5	0.602	0.4	0.699	0.	0.135	0.367	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			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 1976 - Station BICA0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	1	50.	50.	50.	50.	0.	0.	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	1	1.699	1.699	1.699	1.699	0.	0.	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	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 1977 - Station BICA0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	3	1.	27.667	82.	0.	2214.333	47.057	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	3	0.	0.638	1.914	0.	1.221	1.105	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			4.344								

** - Less than 9 observations ## - Computed with 50% or 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 BICA0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	9	5.	18.333	109.	0.	1225.75	35.011	0.	0.5	20.	109.
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	9	0.699	0.742	2.037	0.	0.496	0.704	0.	0.	1.281	2.037
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			5.52								

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

Annual Analysis for 1979 - Station BICA0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	16	39.5	282.313	1700.	2.	290662.896	539.132	2.	21.25	276.75	1560.
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	16	1.597	1.722	3.23	0.301	0.733	0.856	0.301	1.327	2.368	3.192
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			52.736								

** - Less than 9 observations ## - Computed with 50% or 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 BICA0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	9	40.	279.667	1300.	1.	210652.25	458.969	1.	12.5	505.	1300.
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	9	1.602	1.683	3.114	0.	1.119	1.058	0.	0.831	2.613	3.114
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			48.19								

** - 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 1981 - Station BICA0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	22	2.	152.636	1600.	2.	219572.909	468.586	2.	2.	17.	1132.
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	22	0.301	0.85	3.204	0.301	0.77	0.877	0.301	0.301	1.223	2.724
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			7.079								

** - Less than 9 observations ## - Computed with 50% or 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 BICA0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	22	5.5	112.182	1600.	2.	114518.346	338.406	2.	2.	76.75	201.
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	22	0.739	1.1	3.204	0.301	0.792	0.89	0.301	0.301	1.885	2.302
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			12.6								

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

Annual Analysis for 1983 - Station BICA0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	21	11.	875.286	16000.	2.	12131832.614	3483.078	2.	2.	78.	1348.
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	21	1.041	1.241	4.204	0.301	1.149	1.072	0.301	0.301	1.764	3.07
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			17.404								

** - Less than 9 observations ## - Computed with 50% or 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 BICA0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	15	49.	183.4	1600.	2.	163079.543	403.831	2.	5.	172.	847.
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	15	1.69	1.529	3.204	0.301	0.814	0.902	0.301	0.699	2.236	2.804
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			33.839								

** - Less than 9 observations ## - Computed with 50% or 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 BICA0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	2 ##	17.	17.	33.	1.	512.	22.627	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	2 ##	0.759	0.759	1.519	0.	1.153	1.074	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			5.745								

** - Less than 9 observations ## - Computed with 50% or 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 BICA0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	4 ##	1.	5.	17.	1.	64.	8.	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	4 ##	0.	0.308	1.23	0.	0.379	0.615	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			2.031								

** - Less than 9 observations ## - Computed with 50% or 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 BICA0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	1	156.	156.	156.	156.	0.	0.	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	1	2.193	2.193	2.193	2.193	0.	0.	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			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 box-and-whisker plot

Seasonal Analysis for Season #1: 8/10 to 4/14 - Station BICA0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	79	5.	294.076	16000.	0.	3301178.866	1816.915	1.	2.	31.	175.
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	79	0.699	0.975	4.204	0.	0.812	0.901	0.	0.301	1.491	2.243
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			9.45								

** - Less than 9 observations ## - Computed 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: 4/15 to 6/19 - Station BICA0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	30	80.5	326.367	1600.	1.	314666.378	560.951	5.2	16.25	216.25	1600.
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	30	1.906	1.844	3.204	0.	0.741	0.861	0.714	1.209	2.315	3.204
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			69.842								

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

Seasonal Analysis for Season #3: 6/20 to 8/09 - Station BICA0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	28	2.	54.607	800.	0.	24546.914	156.675	1.	2.	20.5	183.
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/08/74-07/10/90	28	0.301	0.793	2.903	0.	0.686	0.828	0.	0.301	1.3	2.262
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			6.204								

** - Less than 9 observations ## - Computed 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: BICA0052

NPS Station ID: BICA0052
LAT/LON: 44.957254/-108.260726
Agency: 11NPSWRD
Date Created: 02/21/98
Location: BIGHORN LAKE AT HORSESHOE BEND
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): BICA_NPS_HB
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SYKES SPRING WYOMING-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE AT HORSESHOE BEND. TEMPERATURE WAS THE ONLY PARAMETER THAT WAS MEASURED. SOMETIMES THE TEMPERATURE WAS MEASURED AT THE SWIM BEACH; AND SOMETIMES THE TEMPERATURE WAS MEASURED AT THE BOAT DOCK. THE BOAT DOCK WAS THE SITE DIGITIZED FOR THE LAT/LONG COORDINATES. THE BOAT DOCK IS LOCATED AT THE END OF THE ROAD THAT GOES TO HORSESHOE BEND. THE SWIM BEACH AREA IS JUST SOUTH OF THE PARKING AREA CLOSEST TO HORSESHOE BEND. TEMPERATURE WAS MEASURED IN 1987 AND 1988. THE RESULTS WERE OBTAINED FROM THE NATURAL RESOURCES DEPARTMENT AT BIGHORN CANYON NATIONAL RECREATION AREA. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0052

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	03/02/87-11/15/88	185	62.	60.251	82.5	32.5	162.633	12.753	43.	50.	70.5	76.4

** - 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

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

Station Inventory for Station: BICA0053

NPS Station ID: BICA0053 LAT/LON: 44.957809/-108.263698 Agency: 11NPSWRD Date Created: 01/31/98
Location: BIGHORN LAKE AT HORSESHOE BEND SWIM BEACH FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): BICA_NPS_HSB_SB
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SYKES SPRING WYOMING-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE AT THE HORSESHOE BEND SWIM BEACH AREA. THE SWIM BEACH AREA IS LOCATED JUST SOUTH OF THE PARKING AREA THAT IS CLOSEST TO HORSESHOE BEND. SAMPLES FOR THIS SITE WERE COLLECTED FROM 1974 TO 1995 BY THE STAFF AT BIGHORN CANYON NATIONAL RECREATION AREA. SAMPLES WERE ANALYZED FOR TOTAL COLIFORM AND FECAL COLIFORM. THE RESULTS WERE OBTAINED FROM NATURAL RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	07/20/89-09/06/95	24	101.5	349.667	3000.	0.	431392.493	656.805	0.	0.75	468.25	1061.
31506	LOG COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	07/20/89-09/06/95	24	2.005	1.651	3.477	0.	1.406	1.186	0.	0.119	2.667	2.984
31506	GM COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	GEOMETRIC MEAN =			44.806								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	136	11.	217.912	16000.	0.	1924157.474	1387.14	2.	2.	44.5	300.2
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	136	1.041	1.167	4.204	0.	0.791	0.889	0.301	0.301	1.648	2.475
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			14.699								

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

EPA Water Quality Criteria Analysis for Station: BICA0053

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31506	COLIFORM, TOTAL, MPN, CONF. TEST, TUBE C	Other-Hi Lim.	1000.	24	2	0.08	9	2	0.22	3	0	0.00	12	0	0.00			
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	136	20	0.15	76	8	0.11	28	7	0.25	32	5	0.16			

& - 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 1971 - Station BICA0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	1	21.	21.	21.	21.	0.	0.	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	1	1.322	1.322	1.322	1.322	0.	0.	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			21.								

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

Annual Analysis for 1974 - Station BICA0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	7	5.	10.429	46.	1.	261.286	16.164	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	7	0.699	0.615	1.663	0.	0.417	0.646	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			4.123								

** - Less than 9 observations ## - Computed with 50% or 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 BICA0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	1	79.	79.	79.	79.	0.	0.	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	1	1.898	1.898	1.898	1.898	0.	0.	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			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 1976 - Station BICA0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	5	3.	18.6	60.	0.	694.8	26.359	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	5	0.477	0.746	1.778	0.	0.696	0.834	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			5.578								

** - Less than 9 observations ## - Computed with 50% or 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 BICA0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	3	0.	3.333	10.	0.	33.333	5.774	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	3	0.	0.333	1.	0.	0.333	0.577	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			2.154								

** - 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 1978 - Station BICA0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	9	5.	85.444	542.	0.	32322.528	179.785	0.	2.	96.5	542.
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	9	0.699	1.057	2.734	0.	0.89	0.943	0.	0.301	1.779	2.734
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			11.414								

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

Annual Analysis for 1979 - Station BICA0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	14	26.5	233.429	920.	2.	124968.264	353.509	3.5	17.	600.	910.
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	14	1.417	1.687	2.964	0.301	0.752	0.867	0.5	1.202	2.778	2.959
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			48.596								

** - Less than 9 observations ## - Computed with 50% or 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 BICA0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	13	20.	119.385	800.	1.	50890.756	225.59	1.4	5.5	117.	618.
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	13	1.301	1.393	2.903	0.	0.765	0.874	0.12	0.724	2.06	2.757
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			24.698								

** - Less than 9 observations ## - Computed with 50% or 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 BICA0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	21	2.	92.476	1600.	2.	121532.162	348.615	2.	2.	13.	180.8
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	21	0.301	0.828	3.204	0.301	0.583	0.764	0.301	0.301	1.113	2.136
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			6.734								

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

Annual Analysis for 1982 - Station BICA0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	22	7.5	88.409	920.	2.	43786.539	209.252	2.	2.	42.25	325.8
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	22	0.874	1.063	2.964	0.301	0.739	0.859	0.301	0.301	1.6	2.511
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			11.565								

** - 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

Annual Analysis for 1983 - Station BICA0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	19	11.	963.105	16000.	2.	13391596.099	3659.453	2.	2.	175.	1600.
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	19	1.041	1.299	4.204	0.301	1.213	1.101	0.301	0.301	2.243	3.204
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			19.92								

** - Less than 9 observations ## - Computed with 50% or 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 BICA0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	15	26.	83.467	345.	2.	12429.695	111.489	2.	6.	130.	304.8
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	15	1.415	1.435	2.538	0.301	0.594	0.771	0.301	0.778	2.114	2.482
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			27.214								

** - Less than 9 observations ## - Computed with 50% or 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 BICA0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	4	23.	24.	49.	1.	388.	19.698	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	4	1.36	1.103	1.69	0.	0.565	0.752	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			12.665								

** - Less than 9 observations ## - Computed with 50% or 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 BICA0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	2	118.5	118.5	201.	36.	13612.5	116.673	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	2	1.93	1.93	2.303	1.556	0.279	0.528	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			85.065								

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

Seasonal Analysis for Season #1: 8/10 to 4/14 - Station BICA0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	07/20/89-09/06/95	9	287.	625.	3000.	0.	1021616.5	1010.75	0.	5.5	1002.5	3000.
31506	LOG COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	07/20/89-09/06/95	9	2.458	1.85	3.477	0.	1.709	1.307	0.	0.521	2.938	3.477
31506	GM COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	GEOMETRIC MEAN =			70.861								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	76	9.	295.013	16000.	0.	3396300.52	1842.905	2.	2.	23.25	302.6
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	76	0.954	1.047	4.204	0.	0.757	0.87	0.301	0.301	1.366	2.431
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			11.13								

** - 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: 4/15 to 6/19 - Station BICA0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	07/20/89-09/06/95	3	0.	0.	0.	0.	0.	0.	**	**	**	**
31506	LOG COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	07/20/89-09/06/95	3	0.	0.	0.	0.	0.	0.	**	**	**	**
31506	GM COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	GEOMETRIC MEAN =			1.								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	28	33.5	147.929	1600.	0.	91945.698	303.225	2.	11.25	209.5	287.4
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	28	1.525	1.583	3.204	0.	0.666	0.816	0.301	1.051	2.319	2.458
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			38.289								

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

Seasonal Analysis for Season #3: 6/20 to 8/09 - Station BICA0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	07/20/89-09/06/95	12	141.	230.583	617.	0.	48168.083	219.472	0.9	30.75	468.25	581.9
31506	LOG COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	07/20/89-09/06/95	12	2.138	1.915	2.79	0.	0.845	0.919	0.143	1.294	2.667	2.763
31506	GM COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	GEOMETRIC MEAN =			82.197								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	32	9.	96.031	920.	0.	48125.967	219.376	0.3	2.	57.25	345.
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	09/08/71-07/18/90	32	0.952	1.09	2.964	0.	0.835	0.914	0.	0.301	1.756	2.538
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			12.314								

** - Less than 9 observations ## - Computed 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: BICA0054

NPS Station ID: BICA0054
LAT/LON: 44.960309/-108.126892
Agency: 11NPSWRD
Date Created: 11/08/97
Location: W00253
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_043 /1151480
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE NATURAL TRAP CAVE WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0054

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/31/76-07/31/76	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/31/76-07/31/76	1	900.	900.	900.	900.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/31/76-07/31/76	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/31/76-07/31/76	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/31/76-07/31/76	1	0.126	0.126	0.126	0.126	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/31/76-07/31/76	1	7.19	7.19	7.19	7.19	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0054

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0055

NPS Station ID: BICA0055
LAT/LON: 44.960837/-108.260837
Agency: 21WYDHSS
Date Created: 11/03/84
Location: YELLOWTAIL RESERVOIR-HORSESHOE BEND
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): 090303-2
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010007
RF1 Mile Point: 1.940
Distance from RF1: 5.60
On/Off RF1: OFF
RF3 Index: 10080014033600.00
RF3 Mile Point: 9.77
Distance from RF3: 0.33
On/Off RF3:
Description:

Parameter Inventory for Station: BICA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/84-08/07/85	6	24.	23.167	25.	19.	5.367	2.317	**	**	**	**
00400	PH (STANDARD UNITS)	06/13/84-08/07/85	6	8.45	8.533	9.	8.39	0.055	0.235	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/13/84-08/07/85	6	8.447	8.493	9.	8.39	0.057	0.239	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/13/84-08/07/85	6	0.004	0.003	0.004	0.001	0.	0.001	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/13/84-08/07/85	6	0.535	0.533	0.97	0.14	0.08	0.282	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/13/84-08/07/85	6	0.111	0.18	0.64	0.03	0.053	0.229	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/13/84-08/07/85	6	266.	280.667	391.	168.	6618.667	81.355	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/13/84-08/07/85	6	0.41	0.452	0.64	0.32	0.019	0.137	**	**	**	**
31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	06/13/84-08/25/88	11 ##	2.	126.909	1000.	0.5	95989.441	309.822	0.5	1.	10.	874.
31613	LOG FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24	06/13/84-08/25/88	11 ##	0.301	0.695	3.	-0.301	1.252	1.119	-0.301	0.	1.	2.914
31613	GM FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24H	GEOMETRIC MEAN =			4.957								

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

EPA Water Quality Criteria Analysis for Station: BICA0055

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	6	1	0.17				2	0	0.00	4	1	0.25			
		Other-Lo Lim.	6.5	6	0	0.00				2	0	0.00	4	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	6	0	0.00				2	0	0.00	4	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	6	0	0.00				2	0	0.00	4	0	0.00			
31613	FECAL COLIFORM, MEMBRANE FILTER, AGAR	Other-Hi Lim.	200.	11	2	0.18	1	0	0.00	4	1	0.25	6	1	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: BICA0056

NPS Station ID: BICA0056
LAT/LON: 44.963309/-108.280698
Agency: 11EPALES
Date Created: / /
Location: CROOKED CREEK
FIPS State/County: 56000 WYOMING/
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 5614E1
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: T/YELLOWTAIL RESERVOIR
Elevation: 0
Water Body Id:
Minor Basin: BNK 200 FT DSTRM FRM MOUTH BIG COULEE RV
ECO Region:
RF1 Index: 10080010042
RF1 Mile Point: 1.310
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10080010001900.00
RF3 Mile Point: 0.00
Distance from RF3: 0.01
On/Off RF3:
Description:
BANK SAMPLE 150 FT FROM HWY 200 FT DOWNSTREAM FROM MOUTH OF BIG COULEE RIVER SEC 35 T58N R95W

Parameter Inventory for Station: BICA0056

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/10/74-09/10/75	14	0.025	0.037	0.165	0.01	0.001	0.039	0.013	0.015	0.041	0.108
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	11/10/74-11/10/74	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/10/74-09/10/75	13	0.55	0.731	2.7	0.2	0.401	0.633	0.22	0.375	0.8	1.98
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/10/74-09/10/75	14	0.375	0.364	0.61	0.16	0.022	0.149	0.175	0.218	0.498	0.57
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/10/74-09/10/75	13	0.05	0.1	0.37	0.02	0.012	0.111	0.022	0.03	0.13	0.342
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/10/74-09/10/75	14	0.007	0.007	0.015	0.003	0.	0.005	0.003	0.003	0.01	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: BICA0056

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
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.	14	0	0.00	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: BICA0057

NPS Station ID: BICA0057
LAT/LON: 44.966670/-108.283338
Agency: 11NPSWRD
Date Created: 11/01/97
Location: TILLETS POND NORTHEAST OF LOVELL WY
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): BICA_WRDS_2 /52076002:0
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 3800
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
The Wyoming Game and Fish Department collected the data stored at this station. The Wyoming Water Resources Center entered these data into the Wyoming Water Resources Data System (WRDS) which is a clearinghouse of hydrological and climatological data for the State of Wyoming. WRDS can be accessed on-line at: WWW-WWRC.UWYO.EDU/WRDS. WRDS staff can be contacted at PO Box 3067 Laramie WY 82071-3067; Tel. 307-766-6651; Fax. 307-766-3785; E-Mail: WRDS@UWYO.EDU. This was one of 9 stations for Bighorn Canyon NRA that were uploaded to STORET from the WRDS. These data are locked in STORET (can't be accessed without the NPS Unlocking Key) so the Wyoming Water Resources Center doesn't provide duplicative data to its clients (from STORET & WRDS). The station is located on the Sykes Spring 7.5' USGS topographic quadrangle. The data were uploaded to STORET by Dean Tucker; National Park Service Water Resources Division; 1201 Oak Ridge Drive Suite 250; Fort Collins CO 80525 (tel. 970-225-3516).

Parameter Inventory for Station: BICA0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/15/56-07/15/56	1	1110.	1110.	1110.	1110.	0.	0.	**	**	**	**
00411	ALKALINITY,METHYLORANGE MG/L	07/15/56-07/15/56	1	178.	178.	178.	178.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/15/56-07/15/56	1	179.6	179.6	179.6	179.6	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/15/56-07/15/56	1	43.7	43.7	43.7	43.7	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/15/56-07/15/56	1	616.	616.	616.	616.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/15/56-07/15/56	1	908.	908.	908.	908.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0057

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	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: BICA0058

NPS Station ID: BICA0058 | LAT/LON: 44.966698/-108.119392 | Agency: 11NPSWRD | Date Created: 11/08/97
Location: W00258 | FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BICA_NURE_051 /1151482
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 10080010 | Depth of Water: 0 | Aquifer:
Major Basin: MISSOURI RIVER | Elevation: 0 | Water Body Id:
Minor Basin: YELLOWSTONE RIVER | ECO Region:
RF1 Index: 10080010 | RF1 Mile Point: 0.000 | Distance from RF1: 4.10 | On/Off RF1:
RF3 Index: 10080014004800.00 | RF3 Mile Point: 0.75 | Distance from RF3: 0.35 | On/Off RF3:
Description:
THE SITE IS LOCATED ON THE SIMMONS CANYON WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0058

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/31/76-07/31/76	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/31/76-07/31/76	1	1500.	1500.	1500.	1500.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/31/76-07/31/76	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/31/76-07/31/76	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/31/76-07/31/76	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/31/76-07/31/76	1	4.67	4.67	4.67	4.67	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 time series plot

EPA Water Quality Criteria Analysis for Station: BICA0058

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0059

NPS Station ID: BICA0059
LAT/LON: 44.975281/-108.297226
Agency: 112WRD
Date Created: / /
Location: BIG COULEE NEAR LOVELL, WYO.
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 06286258
RMI-Indexes: 1021500 009490 36810 4430 5260 6500
Within Park Boundary: No
RMI-Miles: 1149.40 1582.00 279.40 123.00 001.00 000.60
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10080010034
RF1 Mile Point: 2.120
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 10080010070100.00
RF3 Mile Point: 1.60
Distance from RF3: 0.18
On/Off RF3:
Description:

Parameter Inventory for Station: BICA0059

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/70-06/10/77	16	14.	14.438	26.	0.	39.163	6.258	2.1	13.5	18.625	22.85
00060	FLOW, STREAM, MEAN DAILY CFS	07/22/70-09/08/73	9	4.	64.544	489.	0.2	25602.058	160.006	0.2	0.35	39.5	489.
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/20/74-06/10/77	8	34.5	72.225	370.	0.8	15028.862	122.592	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/22/70-06/10/77	17	44.	41.412	77.	15.	291.632	17.077	17.4	28.	51.	66.6
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/22/70-06/10/77	17	82.	75.	99.	36.	423.5	20.579	38.4	60.5	90.5	99.
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	07/22/70-06/10/77	17	98.	95.059	100.	78.	43.809	6.619	81.2	91.	99.5	100.
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	03/09/71-06/10/77	13	100.	98.692	100.	94.	3.731	1.932	94.8	97.5	100.	100.
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	03/09/71-06/10/77	6	100.	99.833	100.	99.	0.167	0.408	**	**	**	**
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	07/28/73-07/28/73	1	100.	100.	100.	100.	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/22/70-06/10/77	17	31900.	49499.412	204000.	3560.	2290554655.882	47859.739	6736.	19750.	58900.	117120.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	07/22/70-06/10/77	17	725.	22281.952	269000.	4.84	249506450.013	65188.239	6.88	77.5	10525.	101080.

** - Less than 9 observations ## - 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: BICA0060

NPS Station ID: BICA0060
LAT/LON: 44.976392/-108.168116
Agency: 11NPSWRD
Date Created: 11/08/97
Location: W00257
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_044 /1151481
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE NATURAL TRAP CAVE WYOMING-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/31/76-07/31/76	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/31/76-07/31/76	1	850.	850.	850.	850.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/31/76-07/31/76	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/31/76-07/31/76	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/31/76-07/31/76	1	0.126	0.126	0.126	0.126	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/31/76-07/31/76	1	4.76	4.76	4.76	4.76	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0060

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0061

NPS Station ID: BICA0061 LAT/LON: 44.987142/-108.282810 Agency: 11NPSWRD Date Created: 01/24/98
Location: TILLET SPRING MARKED AS SYKES SPRING ON TOPO MAP FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BICA_BLM_TILL
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 3900 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SYKES SPRING WYOMING-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT TILLET SPRING WHICH IS NAMED SYKES SPRING ON THE SYKES SPRING TOPOGRAPHIC MAP. SAMPLES WERE COLLECTED ON MAY 27 1957 AND MAY 14 1970. THE 1957 RESULTS ARE IN A MEMORANDUM FROM DICK FELTIS; HYDROLOGIST WRD BILLINGS MONTANA. THE 1970 RESULTS ARE IN "HYDROLOGIC EVALUATION OF THE PROBABLE EFFECTS OF DRILLING IRRIGATION WELLS IN THE PROXIMITY OF BRITTON SPRING IN THE SOUTHERN PART OF THE PRYOR MOUNTAIN HORSE RANGE IN THE WORLAND DISTRICT; WYOMING" ATTACHED TO A MEMORANDUM TO THE DISTRICT MANAGER; BUREAU OF LAND MANAGEMENT; WORLAND WYOMING FROM H.J. KING; SOIL AND MOISTURE CONSERVATION PROGRAM; USGS-WRD DENVER COLORADO. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0061

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	05/14/70-05/14/70	1	53.	53.	53.	53.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/27/57-05/14/70	2	1165.	1165.	1200.	1130.	2450.	49.497	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/27/57-05/27/57	1	4.7	4.7	4.7	4.7	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/27/57-05/27/57	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/27/57-05/27/57	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/27/57-05/27/57	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	05/27/57-05/27/57	1	213.	213.	213.	213.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/27/57-05/27/57	1	304.	304.	304.	304.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	05/27/57-05/27/57	1	133.6	133.6	133.6	133.6	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/27/57-05/27/57	1	35.4	35.4	35.4	35.4	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	05/27/57-05/27/57	1	9.2	9.2	9.2	9.2	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	05/27/57-05/27/57	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	05/27/57-05/27/57	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/27/57-05/27/57	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/27/57-05/27/57	1	527.	527.	527.	527.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/27/57-05/27/57	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/27/57-05/27/57	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	05/27/57-05/27/57	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/27/57-05/27/57	1	252.	252.	252.	252.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: BICA0061

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01105	ALUMINUM, TOTAL (UG/L AS AL)	05/27/57-05/27/57	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01132	LITHIUM, TOTAL (UG/L AS LI)	05/27/57-05/27/57	1	1700.	1700.	1700.	1700.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	05/27/57-05/27/57	1	479.	479.	479.	479.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/27/57-05/27/57	1	868.	868.	868.	868.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0061

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00				1	0	0.00						
00400	PH	Fresh Chronic	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						
		Drinking Water	250.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	1	1.00				1	1	1.00						
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	1	1.00				1	1	1.00						
		Drinking Water	5000.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: BICA0062

NPS Station ID: BICA0062 LAT/LON: 44.989531/-108.281838 Agency: 11NPSWRD Date Created: 01/24/98
Location: LITTLE SYKES SPRING 400 YD NORTH OF SYKES SPRING FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BICA_BLM_LITTLE
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 3960 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SYKES SPRING WYOMING-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT LITTLE SYKES SPRING WHICH IS 400 YARDS NORTH OF SYKES SPRING NEAR THE EAST MARGIN OF THE HORSE RANGE. SAMPLES FROM THIS SITE WERE COLLECTED ON MAY 14 1970. THE RESULTS WERE PUBLISHED IN "HYDROLOGIC EVALUATION OF THE PROBABLE EFFECTS OF DRILLING IRRIGATION WELLS IN THE PROXIMITY OF BRITTON SPRING IN THE SOUTHERN PART OF THE PRYOR MOUNTAIN HORSE RANGE IN THE WORLAND DISTRICT; WYOMING" ATTACHED TO A MEMORANDUM TO THE DISTRICT MANAGER; BUREAU OF LAND MANAGEMENT; WORLAND WYOMING FROM H. J. KING; SOIL AND MOISTURE CONSERVATION PROGRAM; USGS-WRD DENVER COLORADO. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0062

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	05/14/70-05/14/70	1	50.	50.	50.	50.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/14/70-05/14/70	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

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

Station Inventory for Station: BICA0063

NPS Station ID: BICA0063 LAT/LON: 44.995337/-108.349392 Agency: 11NPSWRD Date Created: 01/24/98
Location: BRITTON SPRING 3 1/2 MILES WEST OF SYKES SPRING FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BICA_MEM_BRITT
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 4135 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SYKES SPRING WYOMING-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT BRITTON SPRING WHICH IS APPROXIMATELY 3 1/2 MILES WEST OF SYKES SPRING NEAR THE WEST MARGIN OF THE HORSE RANGE. SAMPLES FROM THIS SITE WERE COLLECTED ON MAY 14 1970. THE RESULTS WERE PUBLISHED IN "HYDROLOGIC EVALUATION OF THE PROBABLE EFFECTS OF DRILLING IRRIGATION WELLS IN THE PROXIMITY OF BRITTON SPRING IN THE SOUTHERN PART OF THE PRYOR MOUNTAIN HORSE RANGE IN THE WORLAND DISTRICT; WYOMING" ATTACHED TO A MEMORANDUM TO THE DISTRICT MANAGER; BUREAU OF LAND MANAGEMENT; WORLAND WYOMING FROM H. J. KING; SOIL AND MOISTURE CONSERVATION PROGRAM; USGS-WRD DENVER COLORADO. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0063

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	05/14/70-05/14/70	1	50.	50.	50.	50.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/14/70-05/14/70	1	2000.	2000.	2000.	2000.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: BICA0064

NPS Station ID: BICA0064
LAT/LON: 44.995560/-108.346948
Agency: 112WRD
Date Created: 02/04/89
Location: 58-095-20bca01 BRITTON WELL
FIPS State/County: 56003 WYOMING/BIG HORN
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 445944108204901
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080014
Depth of Water: 0
Aquifer:
Major Basin: U
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10080014
RF1 Mile Point: 0.000
Distance from RF1: 0.30
On/Off RF1:
RF3 Index: 10080010003501.15
RF3 Mile Point: 1.14
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BICA0064

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/26/88-07/26/88	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/26/88-07/26/88	1	2450.	2450.	2450.	2450.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/26/88-07/26/88	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/26/88-07/26/88	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/26/88-07/26/88	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/26/88-07/26/88	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/26/88-07/26/88	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/26/88-07/26/88	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/26/88-07/26/88	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/26/88-07/26/88	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/26/88-07/26/88	1	440.	440.	440.	440.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/26/88-07/26/88	1	77.	77.	77.	77.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/26/88-07/26/88	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/26/88-07/26/88	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/26/88-07/26/88	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/26/88-07/26/88	1	1300.	1300.	1300.	1300.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/26/88-07/26/88	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/26/88-07/26/88	1	35.	35.	35.	35.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	07/26/88-07/26/88	1	130.	130.	130.	130.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	07/26/88-07/26/88	1	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: BICA0064

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00							1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00							1	0	0.00			
		Drinking Water	250.	1	0	0.00							1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	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: BICA0064

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00							1	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0065

NPS Station ID: BICA0065 LAT/LON: 45.001892/-108.245115 Agency: 11NPSWRD Date Created: 02/21/98
Location: BIGHORN LAKE NEAR MONTANA-WYOMING STATE LINE FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): BICA_MFG_H
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE HILLSBORO MONTANA-WYOMING 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE NEAR THE MONTANA-WYOMING STATE LINE. SAMPLES FOR THIS SITE WERE COLLECTED FROM 1970-1972 BY THE MONTANA FISH AND GAME DEPARTMENT. SAMPLES WERE ANALYZED FOR DISSOLVED OXYGEN IN 1970 AND TEMPERATURE IN 1970-1972. THE RESULTS WERE OBTAINED FROM NATURAL RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/70-10/20/72	231	17.8	15.727	23.3	2.8	23.94	4.893	7.2	12.8	19.4	20.54
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/17/70-11/04/70	5	20.	18.9	29.4	6.7	68.245	8.261	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/22/70-12/02/70	24	7.4	7.183	10.4	2.6	3.725	1.93	4.2	6.05	8.55	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 time series plot

EPA Water Quality Criteria Analysis for Station: BICA0065

			Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	24	2	0.08	15	1	0.07	6	0	0.00	3	1	0.33			

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

Station Inventory for Station: BICA0066

NPS Station ID: BICA0066
LAT/LON: 45.019920/-108.249420
Agency: 11NPSWRD
Date Created: 11/15/97
Location: BIGHORN LAKE 40 MILES FROM DAM
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): BICA_SOLT_4
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE HILLSBORO MONTANA-WYOMING 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE APPROXIMATELY 40 MILES SOUTH OF YELLOWTAIL DAM. SAMPLES FROM THIS SITE WERE TAKEN DURING A STUDY OF THE POTENTIAL DECLINE IN FISH PRODUCTION OF A NEWLY IMPOUNDED RESERVOIR. SAMPLING WAS DONE FROM 1968 THROUGH 1970; AND THE RESULTS WERE PUBLISHED IN THE THESIS "LIMNOLOGICAL STUDIES ON BIGHORN LAKE AND ITS TRIBUTARIES" BY RAYMOND SOLTERO (MONTANA STATE UNIVERSITY; JUNE 1971). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0066

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/05/68-11/02/68	159	16.1	15.744	23.9	8.1	11.797	3.435	11.1	13.3	17.8	20.5
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/05/68-07/28/69	33	39.	56.727	350.	12.	4838.767	69.561	16.	22.	61.	88.4
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	09/09/68-09/08/70	221	75.	72.086	100.	12.	380.479	19.506	43.4	60.	86.	97.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/05/68-11/02/68	158	870.	858.354	1380.	350.	31596.638	177.754	582.5	793.75	950.	1021.
00406	PH, FIELD, STANDARD UNITS SU	05/05/68-09/08/70	48	8.48	8.425	8.8	7.85	0.04	0.199	8.145	8.308	8.55	8.636
00406	CONVERTED PH, FIELD, STANDARD UNITS	05/05/68-09/08/70	48	8.48	8.373	8.8	7.85	0.043	0.206	8.145	8.308	8.55	8.636
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/05/68-09/08/70	48	0.003	0.004	0.014	0.002	0.	0.003	0.002	0.003	0.005	0.007
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/05/68-09/08/70	55	0.12	0.139	0.61	0.	0.018	0.134	0.	0.03	0.24	0.318
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/05/68-09/08/70	55	0.01	0.011	0.03	0.	0.	0.006	0.002	0.008	0.013	0.02
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/05/68-09/08/70	56	0.415	0.421	1.09	0.08	0.046	0.215	0.17	0.24	0.525	0.75
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/05/68-09/08/70	53	0.05	0.074	0.34	0.	0.007	0.085	0.	0.01	0.105	0.202
01042	COPPER, TOTAL (UG/L AS CU)	04/15/69-08/11/69	16	1.	1.188	2.	0.	0.296	0.544	0.7	1.	1.75	2.
01055	MANGANESE, TOTAL (UG/L AS MN)	04/15/69-08/11/69	16	6.	15.375	56.	0.	360.65	18.991	0.7	2.25	29.5	56.
01092	ZINC, TOTAL (UG/L AS ZN)	04/15/69-08/11/69	16	6.	9.063	25.	0.	70.596	8.402	0.	2.25	17.5	22.2
32238	CHLOROPHYLL-A,PHYTOPLANKTON,FLURORMETRIC MTH MG/M3	05/05/68-09/08/70	51	8.1	11.616	32.3	0.6	76.78	8.762	3.5	5.8	16.4	27.72
74010	IRON, TOTAL (MG/L AS FE)	05/05/69-08/11/69	13	0.07	0.085	0.34	0.003	0.008	0.087	0.006	0.025	0.12	0.252

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

EPA Water Quality Criteria Analysis for Station: BICA0066

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	33	11	0.33	9	1	0.11	15	9	0.60	9	1	0.11			
00406	PH, FIELD	Fresh Chronic	9.	48	0	0.00	17	0	0.00	14	0	0.00	17	0	0.00			
		Other-Lo Lim.	6.5	48	0	0.00	17	0	0.00	14	0	0.00	17	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	55	0	0.00	17	0	0.00	18	0	0.00	20	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	56	0	0.00	18	0	0.00	18	0	0.00	20	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	16	0	0.00	1	0	0.00	10	0	0.00	5	0	0.00			
		Drinking Water	1300.	16	0	0.00	1	0	0.00	10	0	0.00	5	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	16	0	0.00	1	0	0.00	10	0	0.00	5	0	0.00			
		Drinking Water	5000.	16	0	0.00	1	0	0.00	10	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: BICA0067

NPS Station ID: BICA0067 LAT/LON: 45.020003/-108.234170 Agency: 21MTHDWQ Date Created: 10/12/85
Location: PORCUPINE CREEK NEAR FORT SMITH YELLOWTAI FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 1963PO01
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 8.30 On/Off RF1:
RF3 Index: 10080015006800.00 RF3 Mile Point: 12.11 Distance from RF3: 0.21 On/Off RF3:
Description:

Parameter Inventory for Station: BICA0067

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/05/74-05/05/74	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/05/74-05/05/74	1	307.	307.	307.	307.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	05/05/74-05/05/74	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	05/05/74-05/05/74	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/05/74-05/05/74	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/05/74-05/05/74	1	126.	126.	126.	126.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	05/05/74-05/05/74	1	149.	149.	149.	149.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	05/05/74-05/05/74	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/05/74-05/05/74	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/05/74-05/05/74	1	152.	152.	152.	152.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/05/74-05/05/74	1	46.3	46.3	46.3	46.3	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/05/74-05/05/74	1	8.9	8.9	8.9	8.9	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/05/74-05/05/74	1	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/05/74-05/05/74	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/05/74-05/05/74	1	29.	29.	29.	29.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/05/74-05/05/74	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/05/74-05/05/74	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/05/74-05/05/74	1	180.	180.	180.	180.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/05/74-05/05/74	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/05/74-05/05/74	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/05/74-05/05/74	1	242.	242.	242.	242.	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/05/74-05/05/74	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/05/74-05/05/74	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: BICA0067

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	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						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
		Drinking Water	250.	1	0	0.00				1	0	0.00						

& - 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: BICA0067

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	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						
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						
		Drinking Water	5000.	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: BICA0068

NPS Station ID: BICA0068 LAT/LON: 45.020142/-108.248588 Agency: 11NPSWRD Date Created: 12/20/97
Location: BIGHORN LAKE AT MOUTH OF DEVIL CANYON FIPS State/County: 30009 MONTANA/CARBON
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): BICA_EPA_3E
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE HILLSBORO MONTANA-WYOMING 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE AT THE MOUTH OF DEVIL CANYON. SAMPLES FOR THIS SITE WERE COLLECTED IN MAY; AUGUST; AND OCTOBER 1975. SAMPLES WERE ANALYZED FOR CHLOROPHYLL A AND SECCHI DEPTH. AN INVERSE RELATIONSHIP WAS OBSERVED BETWEEN PLANKTONIC ALGAL CHLOROPHYLL AND SECCHI DEPTH. THE RESULTS WERE PUBLISHED IN THE REPORT "EVALUATION OF WATER QUALITY AND RATE OF SEDIMENTATION IN BIGHORN LAKE; BIGHORN CANYON NATIONAL RECREATION AREA" BY G. FRED LEE AND R. ANNE JONES (COLORADO STATE UNIVERSITY; DECEMBER 1981). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0068

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/21/75-10/17/75	3	1.68	1.687	3.05	0.33	1.85	1.36	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/21/75-10/17/75	3	2.4	2.4	2.6	2.2	0.04	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

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

Station Inventory for Station: BICA0069

NPS Station ID: BICA0069
LAT/LON: 45.022504/-108.246949
Agency: 11EPALES
Date Created: 11/26/75
Location: YELLOWTAIL RESERVOIR
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 561403
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 83
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10080010082
RF1 Mile Point: 0.100
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 10080015000700.74
RF3 Mile Point: 1.74
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: BICA0069

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/75-10/17/75	18	16.1	15.206	21.2	7.8	23.953	4.894	7.89	11.225	20.175	21.2
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	05/22/75-10/17/75	18	91.5	74.	101.	6.	1118.824	33.449	10.5	50.75	101.	101.
00077	TRANSPARENCY, SECCHI DISC (INCHES)	05/22/75-10/17/75	3	66.	66.333	120.	13.	2862.333	53.501	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/22/75-10/17/75	18	566.	546.111	741.	398.	11551.516	107.478	399.8	467.75	597.25	726.6
00300	OXYGEN, DISSOLVED MG/L	05/22/75-10/17/75	18	8.	7.867	10.4	6.2	1.706	1.306	6.2	6.4	9.125	9.5
00400	PH (STANDARD UNITS)	05/22/75-10/17/75	18	8.3	8.222	8.4	8.	0.023	0.151	8.	8.	8.3	8.4
00400	CONVERTED PH (STANDARD UNITS)	05/22/75-10/17/75	18	8.3	8.196	8.4	8.	0.023	0.153	8.	8.	8.3	8.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/22/75-10/17/75	18	0.005	0.006	0.01	0.004	0.	0.002	0.004	0.005	0.01	0.01
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/22/75-10/17/75	18	131.	135.944	169.	125.	200.291	14.152	125.	126.	138.75	164.5
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/22/75-10/17/75	18	0.04	0.042	0.08	0.01	0.001	0.027	0.01	0.018	0.07	0.08
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/22/75-10/17/75	18	0.25	0.261	0.5	0.1	0.02	0.142	0.1	0.1	0.4	0.41
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/22/75-10/17/75	18	0.245	0.279	0.45	0.14	0.012	0.11	0.149	0.18	0.405	0.441
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/75-10/17/75	18	0.031	0.054	0.141	0.019	0.002	0.039	0.022	0.027	0.081	0.137
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/22/75-10/17/75	18	0.016	0.021	0.044	0.011	0.	0.01	0.012	0.015	0.028	0.042
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	05/22/75-10/17/75	3	2.4	2.4	2.6	2.2	0.04	0.2	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	05/22/75-10/17/75	3	119.	107.333	120.	83.	444.333	21.079	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0069

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	18	0	0.00	12	0	0.00	6	0	0.00						
00400	PH	Fresh Chronic	9.	18	0	0.00	12	0	0.00	6	0	0.00						
		Other-Lo Lim.	6.5	18	0	0.00	12	0	0.00	6	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	18	0	0.00	12	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: BICA0070

NPS Station ID: BICA0070 LAT/LON: 45.050337/-108.219504 Agency: 11NPSWRD Date Created: 02/21/98
Location: BIGHORN LAKE NEAR DEVILS PLAYGROUND FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): BICA_MFG_G
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE HILLSBORO MONTANA-WYOMING 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE NEAR DEVILS PLAYGROUND. SAMPLES FOR THIS SITE WERE COLLECTED FROM 1970-1972 BY THE MONTANA FISH AND GAME DEPARTMENT. SAMPLES WERE ANALYZED FOR DISSOLVED OXYGEN IN 1970 AND TEMPERATURE IN 1970-1972. THE RESULTS WERE OBTAINED FROM NATURAL RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0070

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/70-10/20/72	302	17.15	15.402	24.4	3.9	22.616	4.756	6.85	11.7	19.4	20.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/16/70-11/12/71	5	21.1	22.	30.6	15.	40.905	6.396	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/22/70-11/04/70	21	7.	6.638	10.	1.	4.454	2.111	3.52	5.7	7.7	9.32

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: BICA0070

			Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	21	3	0.14	12	2	0.17	6	0	0.00	3	1	0.33			

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

Station Inventory for Station: BICA0071

NPS Station ID: BICA0071
LAT/LON: 45.080615/-108.258893
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M39503
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_106 /1038669
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE MYSTERY CAVE MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS INSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0071

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/06/78-07/06/78	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/06/78-07/06/78	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/06/78-07/06/78	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/06/78-07/06/78	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/06/78-07/06/78	1	54.5	54.5	54.5	54.5	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/06/78-07/06/78	1	21.4	21.4	21.4	21.4	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/06/78-07/06/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	07/06/78-07/06/78	1	685.	685.	685.	685.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/06/78-07/06/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/06/78-07/06/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/06/78-07/06/78	1	345.	345.	345.	345.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/06/78-07/06/78	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/06/78-07/06/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	07/06/78-07/06/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/06/78-07/06/78	1	195.	195.	195.	195.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/06/78-07/06/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/06/78-07/06/78	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: BICA0071

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00							1	1	1.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0072

NPS Station ID: BICA0072
LAT/LON: 45.093476/-108.212365
Agency: 11NPSWRD
Date Created: 02/21/98
Location: BIGHORN LAKE NEAR BARRYS LANDING
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): BICA_MFG_F
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE HILLSBORO MONTANA-WYOMING 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE NEAR BARRYS LANDING. SAMPLES FOR THIS SITE WERE COLLECTED FROM 1970-1972 BY THE MONTANA FISH AND GAME DEPARTMENT. SAMPLES WERE ANALYZED FOR DISSOLVED OXYGEN IN 1970 AND TEMPERATURE IN 1970-1972. THE RESULTS WERE OBTAINED FROM NATURAL RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/70-10/20/72	348	16.7	15.43	24.4	5.	19.156	4.377	8.3	11.925	18.9	20.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/16/70-11/12/71	4	19.15	18.75	20.6	16.1	4.07	2.017	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/22/70-11/04/70	28	6.6	6.1	9.6	0.4	5.154	2.27	3.	4.8	7.95	8.42

** - 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: BICA0072

			Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	28	4	0.14	16	3	0.19	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

Station Inventory for Station: BICA0073

NPS Station ID: BICA0073
LAT/LON: 45.095337/-108.211116
Agency: 11NPSWRD
Date Created: 02/21/98
Location: BIGHORN LAKE AT BARRYS LANDING
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): BICA_NPS_BL
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE HILLSBORO MONTANA-WYOMING 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE AT BARRYS LANDING. TEMPERATURE WAS THE ONLY PARAMETER MEASURED; AND IT WAS MEASURED IN 1987 AND 1988. THE RESULTS WERE OBTAINED FROM THE NATURAL RESOURCES DEPARTMENT AT BIGHORN CANYON NATIONAL RECREATION AREA. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0073

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	03/02/87-05/15/91	72	47.5	48.097	65.	34.	100.371	10.019	36.3	38.	57.	64.
85334	TEMPERATURE-DEG F, MINIMUM WATER	04/04/86-09/30/87	430	60.	57.098	72.	34.5	83.368	9.131	43.5	51.	64.125	67.5
85335	TEMPERATURE- DEG F , MAXIMUM WATER	04/04/86-09/29/87	429	62.	59.235	76.5	36.	86.671	9.31	46.	52.	65.5	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

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

Station Inventory for Station: BICA0074

NPS Station ID: BICA0074
LAT/LON: 45.095365/-108.212198
Agency: 11NPSWRD
Date Created: 12/20/97
Location: BIGHORN LAKE AT BARRY'S LANDING
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): BICA_CSU_BARRY
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE HILLSBORO MONTANA-WYOMING 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE AT BARRY'S LANDING. SAMPLES FOR THIS SITE WERE COLLECTED FROM JULY 1980 TO NOVEMBER 1980. SAMPLES WERE ANALYZED FOR TEMPERATURE; PH; SPECIFIC CONDUCTANCE; TURBIDITY; SOLUBLE ORTHOPHOSPHATE; TOTAL PHOSPHATE; TOTAL AMMONIA; NITRATE; AND ALKALINITY. THE RESULTS WERE PUBLISHED IN THE REPORT "EVALUATION OF WATER QUALITY AND RATE OF SEDIMENTATION IN BIGHORN LAKE; BIGHORN CANYON NATIONAL RECREATION AREA" BY G. FRED LEE AND R. ANNE JONES (COLORADO STATE UNIVERSITY; DECEMBER 1981). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0074

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/09/80-11/26/80	8	20.	18.313	22.	10.	22.496	4.743	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	07/09/80-11/26/80	8	2.65	2.528	3.3	1.27	0.524	0.724	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/09/80-11/26/80	6	544.5	565.167	722.	490.	7603.367	87.197	**	**	**	**
00400	PH (STANDARD UNITS)	07/09/80-11/26/80	7	7.9	7.786	8.1	7.	0.141	0.376	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/09/80-11/26/80	7	7.9	7.597	8.1	7.	0.183	0.428	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/80-11/26/80	7	0.013	0.025	0.1	0.008	0.001	0.033	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/09/80-07/23/80	2	166.5	166.5	168.	165.	4.5	2.121	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/09/80-08/06/80	3	0.063	0.074	0.13	0.028	0.003	0.052	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/09/80-08/06/80	3	0.28	0.28	0.46	0.1	0.032	0.18	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/09/80-08/06/80	3	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/09/80-11/26/80	8	0.015	0.014	0.02	0.003	0.	0.005	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	07/09/80-11/26/80	8	3.	5.113	15.	0.8	24.193	4.919	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/09/80-11/26/80	6	1.	1.667	4.	1.	1.467	1.211	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0074

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	7	0	0.00	4	0	0.00				3	0	0.00			
		Other-Lo Lim.	6.5	7	0	0.00	4	0	0.00				3	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	3	0	0.00							3	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: BICA0075

NPS Station ID: BICA0075
LAT/LON: 45.098503/-108.192477
Agency: 11NPSWRD
Date Created: 11/15/97
Location: BIGHORN LAKE 30 MILES FROM DAM
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): BICA_SOLT_3
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE HILLSBORO MONTANA-WYOMING 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE APPROXIMATELY 30 MILES SOUTH OF YELLOWTAIL DAM. SAMPLES FROM THIS SITE WERE TAKEN DURING A STUDY OF THE POTENTIAL DECLINE IN FISH PRODUCTION OF A NEWLY IMPOUNDED RESERVOIR. SAMPLING WAS DONE FROM 1968 THROUGH 1970; AND THE RESULTS WERE PUBLISHED IN THE THESIS "LIMNOLOGICAL STUDIES ON BIGHORN LAKE AND ITS TRIBUTARIES" BY RAYMOND SOLTERO (MONTANA STATE UNIVERSITY; JUNE 1971). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0075

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/05/68-11/02/68	249	15.5	15.48	25.	6.1	12.705	3.564	11.1	12.8	17.8	20.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/05/68-07/28/69	53	20.	38.094	217.	4.	2023.818	44.987	9.6	16.	35.	114.
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	09/09/68-09/08/70	332	84.5	81.187	100.	21.	173.331	13.166	63.	75.	90.	96.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/05/68-11/02/68	247	850.	828.077	1320.	450.	27357.77	165.402	618.	700.	900.	992.
00406	PH, FIELD, STANDARD UNITS SU	05/05/68-09/08/70	53	8.5	8.486	8.88	7.9	0.044	0.21	8.214	8.39	8.65	8.76
00406	CONVERTED PH, FIELD, STANDARD UNITS	05/05/68-09/08/70	53	8.5	8.431	8.88	7.9	0.047	0.218	8.214	8.39	8.65	8.76
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/05/68-09/08/70	53	0.003	0.004	0.013	0.001	0.	0.002	0.002	0.002	0.004	0.006
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/05/68-09/08/70	55	0.08	0.106	0.56	0.	0.013	0.115	0.	0.02	0.19	0.26
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/05/68-09/08/70	55	0.01	0.01	0.05	0.	0.	0.007	0.001	0.007	0.01	0.018
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/05/68-09/08/70	56	0.315	0.348	0.74	0.	0.041	0.203	0.1	0.165	0.505	0.66
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/05/68-09/08/70	52	0.05	0.103	0.72	0.	0.019	0.136	0.	0.01	0.17	0.277
01042	COPPER, TOTAL (UG/L AS CU)	04/15/69-08/11/69	16	1.	1.063	2.	0.	0.196	0.443	0.7	1.	1.	2.
01055	MANGANESE, TOTAL (UG/L AS MN)	04/15/69-08/11/69	16	2.	7.063	43.	0.	124.863	11.174	0.7	1.	12.	24.8
01092	ZINC, TOTAL (UG/L AS ZN)	04/15/69-08/11/69	16	6.5	9.438	24.	0.	69.996	8.366	0.	3.	18.	24.
32238	CHLOROPHYLL-A,PHYTOPLANKTON,FLURORMETRIC MTH MG/M3	05/05/68-09/08/70	51	6.4	9.92	77.	1.1	137.636	11.732	2.42	3.9	10.8	23.56
74010	IRON, TOTAL (MG/L AS FE)	05/05/69-08/11/69	13	0.02	0.049	0.22	0.007	0.004	0.063	0.007	0.01	0.055	0.188

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

EPA Water Quality Criteria Analysis for Station: BICA0075

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	53	9	0.17	15	2	0.13	23	4	0.17	15	3	0.20			
00406	PH, FIELD	Fresh Chronic	9.	53	0	0.00	17	0	0.00	16	0	0.00	20	0	0.00			
		Other-Lo Lim.	6.5	53	0	0.00	17	0	0.00	16	0	0.00	20	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	55	0	0.00	17	0	0.00	18	0	0.00	20	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	56	0	0.00	18	0	0.00	18	0	0.00	20	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	16	0	0.00	1	0	0.00	10	0	0.00	5	0	0.00			
		Drinking Water	1300.	16	0	0.00	1	0	0.00	10	0	0.00	5	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	16	0	0.00	1	0	0.00	10	0	0.00	5	0	0.00			
		Drinking Water	5000.	16	0	0.00	1	0	0.00	10	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: BICA0076

NPS Station ID: BICA0076
LAT/LON: 45.098615/-108.230616
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38794
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_105 /1038047
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE HILLSBORO MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS INSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/78-07/05/78	1	750.	750.	750.	750.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/05/78-07/05/78	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/05/78-07/05/78	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/05/78-07/05/78	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/05/78-07/05/78	1	91.3	91.3	91.3	91.3	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/78-07/05/78	1	4.7	4.7	4.7	4.7	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/05/78-07/05/78	1	32.	32.	32.	32.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	07/05/78-07/05/78	1	245.	245.	245.	245.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/05/78-07/05/78	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/05/78-07/05/78	1	57.	57.	57.	57.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/05/78-07/05/78	1	1544.	1544.	1544.	1544.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/05/78-07/05/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	07/05/78-07/05/78	1	111.	111.	111.	111.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/05/78-07/05/78	1	332.	332.	332.	332.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/05/78-07/05/78	1	26.	26.	26.	26.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	1	1.82	1.82	1.82	1.82	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0076

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	1	1.00							1	1	1.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00							1	1	1.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0077

NPS Station ID: BICA0077 LAT/LON: 45.101310/-108.239059 Agency: 11NPSWRD Date Created: 01/24/98
Location: UPSTREAM SPRING ON SOUTH FORK TRAIL CREEK FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BICA_NPS_SPR_1
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE HILLSBORO MONTANA-WYOMING 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT THE UPSTREAM SPRING ON SOUTH FORK TRAIL CREEK IN THE CAMPGROUND AREA NEAR BARRY'S LANDING ON BIGHORN LAKE. MEASUREMENTS AT THIS SITE WERE TAKEN ON MARCH 5 1968. DISCHARGE IN GALLONS PER MINUTE AND TEMPERATURE IN DEGREES FAHRENHEIT WERE THE ONLY PARAMETERS MEASURED. THE RESULTS WERE PUBLISHED IN A MEMORANDUM TO WILLIAM E. FIELDS; SUPERVISORY HYDRAULIC ENGINEER SAN FRANCISCO PLANNING AND SERVICE CENTER NATIONAL PARK SERVICE; SAN FRANCISCO CALIFORNIA 94102 FROM CHARLES W. LANE; DISTRICT CHIEF U.S.G.S. WRD HELENA MONTANA 59601. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0077

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/05/68-04/05/68	1	50.	50.	50.	50.	0.	0.	**	**	**	**
00058	FLOW, RATE GALLONS/MIN	04/05/68-04/05/68	1	231.	231.	231.	231.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: BICA0078

NPS Station ID: BICA0078
LAT/LON: 45.101892/-108.235309
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38795
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_017 /1038048
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE HILLSBORO MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS INSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	1	10.5	10.5	10.5	10.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/78-07/05/78	1	900.	900.	900.	900.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/05/78-07/05/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/05/78-07/05/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/05/78-07/05/78	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/78-07/05/78	1	46.8	46.8	46.8	46.8	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/05/78-07/05/78	1	43.	43.	43.	43.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	07/05/78-07/05/78	1	240.	240.	240.	240.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/05/78-07/05/78	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/05/78-07/05/78	1	47.	47.	47.	47.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/05/78-07/05/78	1	1923.	1923.	1923.	1923.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/05/78-07/05/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	07/05/78-07/05/78	1	107.	107.	107.	107.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/05/78-07/05/78	1	404.	404.	404.	404.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/05/78-07/05/78	1	25.	25.	25.	25.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	1	0.18	0.18	0.18	0.18	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0078

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	1	1.00							1	1	1.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00							1	1	1.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0079

NPS Station ID: BICA0079 LAT/LON: 45.102226/-108.235143 Agency: 11NPSWRD Date Created: 01/24/98
Location: DOWNSTREAM SPRING ON SOUTH FORK TRAIL CREEK FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BICA_NPS_SPR_2
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE HILLSBORO MONTANA-WYOMING 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT THE DOWNSTREAM SPRING ON SOUTH FORK TRAIL CREEK IN THE CAMPGROUND AREA NEAR BARRY'S LANDING ON BIGHORN LAKE. MEASUREMENTS AT THIS SITE WERE TAKEN ON MARCH 5 1968. DISCHARGE IN GALLONS PER MINUTE AND TEMPERATURE IN DEGREES FAHRENHEIT WERE THE ONLY PARAMETERS MEASURED. THE RESULTS WERE PUBLISHED IN A MEMORANDUM TO WILLIAM E. FIELDS; SUPERVISORY HYDRAULIC ENGINEER SAN FRANCISCO PLANNING AND SERVICE CENTER NATIONAL PARK SERVICE; SAN FRANCISCO CALIFORNIA 94102 FROM CHARLES W. LANE; DISTRICT CHIEF U.S.G.S. WRD HELENA MONTANA 59601. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0079

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/05/68-04/05/68	1	51.	51.	51.	51.	0.	0.	**	**	**	**
00058	FLOW, RATE GALLONS/MIN	04/05/68-04/05/68	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

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

Station Inventory for Station: BICA0080

NPS Station ID: BICA0080 LAT/LON: 45.106142/-108.225281 Agency: 11NPSWRD Date Created: 01/24/98
Location: DOWNSTREAM SPRING ON NORTH FORK TRAIL CREEK FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BICA_NPS_SPR_4
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE HILLSBORO MONTANA-WYOMING 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT THE DOWNSTREAM SPRING ON NORTH FORK TRAIL CREEK IN THE CAMPGROUND AREA NEAR BARRY'S LANDING ON BIGHORN LAKE. MEASUREMENTS AT THIS SITE WERE TAKEN ON MARCH 5 1968. DISCHARGE IN GALLONS PER MINUTE AND TEMPERATURE IN DEGREES FAHRENHEIT WERE THE ONLY PARAMETERS MEASURED. THE RESULTS WERE PUBLISHED IN A MEMORANDUM TO WILLIAM E. FIELDS; SUPERVISORY HYDRAULIC ENGINEER SAN FRANCISCO PLANNING AND SERVICE CENTER NATIONAL PARK SERVICE; SAN FRANCISCO CALIFORNIA 94102 FROM CHARLES W. LANE; DISTRICT CHIEF U.S.G.S. WRD HELENA MONTANA 59601. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/05/68-04/05/68	1	50.	50.	50.	50.	0.	0.	**	**	**	**
00058	FLOW, RATE GALLONS/MIN	04/05/68-04/05/68	1	100.	100.	100.	100.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: BICA0081

NPS Station ID: BICA0081
LAT/LON: 45.106892/-108.226893
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38792
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_098 /1038045
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE HILLSBORO MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS INSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	1	11.5	11.5	11.5	11.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/78-07/05/78	1	1500.	1500.	1500.	1500.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/05/78-07/05/78	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/05/78-07/05/78	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/05/78-07/05/78	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/78-07/05/78	1	86.7	86.7	86.7	86.7	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/05/78-07/05/78	1	58.	58.	58.	58.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	07/05/78-07/05/78	1	316.	316.	316.	316.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/05/78-07/05/78	1	22.	22.	22.	22.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/05/78-07/05/78	1	73.	73.	73.	73.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/05/78-07/05/78	1	3371.	3371.	3371.	3371.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/05/78-07/05/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	07/05/78-07/05/78	1	130.	130.	130.	130.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/05/78-07/05/78	1	533.	533.	533.	533.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/05/78-07/05/78	1	46.	46.	46.	46.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	1	0.97	0.97	0.97	0.97	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0081

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00							1	1	1.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	1	1.00							1	1	1.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00							1	1	1.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0082

NPS Station ID: BICA0082
LAT/LON: 45.107503/-108.241699
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38793
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_016 /1038046
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE HILLSBORO MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS INSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	1	10.6	10.6	10.6	10.6	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/78-07/05/78	1	3350.	3350.	3350.	3350.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/05/78-07/05/78	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/05/78-07/05/78	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/05/78-07/05/78	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/05/78-07/05/78	1	134.	134.	134.	134.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	07/05/78-07/05/78	1	503.	503.	503.	503.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/05/78-07/05/78	1	49.	49.	49.	49.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/05/78-07/05/78	1	238.	238.	238.	238.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/05/78-07/05/78	1	5250.	5250.	5250.	5250.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	1	27.	27.	27.	27.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/05/78-07/05/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	07/05/78-07/05/78	1	228.	228.	228.	228.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/05/78-07/05/78	1	598.	598.	598.	598.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/05/78-07/05/78	1	83.	83.	83.	83.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	1	3.1	3.1	3.1	3.1	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: BICA0082

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	1	1.00							1	1	1.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00							1	1	1.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	1	1.00							1	1	1.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00							1	1	1.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0083

NPS Station ID: BICA0083 LAT/LON: 45.107838/-108.228338 Agency: 11NPSWRD Date Created: 01/24/98
Location: UPSTREAM SPRING ON NORTH FORK TRAIL CREEK FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BICA_NPS_SPR_3
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE HILLSBORO MONTANA-WYOMING 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT THE UPSTREAM SPRING ON NORTH FORK TRAIL CREEK IN THE CAMPGROUND AREA NEAR BARRY'S LANDING ON BIGHORN LAKE. MEASUREMENTS AT THIS SITE WERE TAKEN ON MARCH 5 1968. DISCHARGE IN GALLONS PER MINUTE AND TEMPERATURE IN DEGREES FAHRENHEIT WERE THE ONLY PARAMETERS MEASURED. THE RESULTS WERE PUBLISHED IN A MEMORANDUM TO WILLIAM E. FIELDS; SUPERVISORY HYDRAULIC ENGINEER SAN FRANCISCO PLANNING AND SERVICE CENTER NATIONAL PARK SERVICE; SAN FRANCISCO CALIFORNIA 94102 FROM CHARLES W. LANE; DISTRICT CHIEF U.S.G.S. WRD HELENA MONTANA 59601. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/05/68-04/05/68	1	50.	50.	50.	50.	0.	0.	**	**	**	**
00058	FLOW, RATE GALLONS/MIN	04/05/68-04/05/68	1	49.	49.	49.	49.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: BICA0084

NPS Station ID: BICA0084
LAT/LON: 45.113615/-108.183337
Agency: 11EPALES
Date Created: 11/26/75
Location: YELLOWTAIL RESERVOIR
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 561404
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 165
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10080010013
RF1 Mile Point: 0.290
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 10080010002703.22
RF3 Mile Point: 3.22
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: BICA0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/75-10/17/75	23	16.4	15.548	22.2	5.7	26.876	5.184	6.	13.8	21.2	21.74
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	05/22/75-10/17/75	23	92.	90.348	101.	69.	120.419	10.974	74.4	80.	100.	101.
00077	TRANSPARENCY, SECCHI DISC (INCHES)	05/22/75-10/17/75	3	90.	118.	240.	24.	12252.	110.689	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/22/75-10/17/75	22	614.5	634.591	776.	501.	12381.682	111.273	502.	527.	750.75	775.1
00300	OXYGEN, DISSOLVED MG/L	05/22/75-10/17/75	23	7.7	7.5	9.4	5.8	0.955	0.977	6.08	6.4	8.2	8.72
00400	PH (STANDARD UNITS)	05/22/75-10/17/75	23	8.2	8.152	8.3	7.8	0.025	0.159	7.84	8.	8.3	8.3
00400	CONVERTED PH (STANDARD UNITS)	05/22/75-10/17/75	23	8.2	8.121	8.3	7.8	0.026	0.162	7.84	8.	8.3	8.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/22/75-10/17/75	23	0.006	0.008	0.016	0.005	0.	0.003	0.005	0.005	0.01	0.015
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/22/75-10/17/75	23	151.	145.826	177.	122.	364.877	19.102	124.	125.	159.	176.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/22/75-10/17/75	23	0.06	0.046	0.09	0.01	0.001	0.03	0.01	0.01	0.07	0.08
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/22/75-10/17/75	23	0.2	0.204	0.3	0.1	0.007	0.082	0.1	0.1	0.3	0.3
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/22/75-10/17/75	23	0.26	0.326	0.59	0.12	0.02	0.142	0.18	0.2	0.45	0.526
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/75-10/17/75	23	0.033	0.054	0.37	0.02	0.005	0.071	0.021	0.026	0.055	0.085
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/22/75-10/17/75	23	0.019	0.021	0.036	0.013	0.	0.008	0.014	0.016	0.027	0.035
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	05/22/75-10/17/75	3	2.9	2.533	3.1	1.6	0.663	0.814	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	05/22/75-10/17/75	3	165.	157.333	169.	138.	284.333	16.862	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0084

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	23	0	0.00	14	0	0.00	9	0	0.00						
00400	PH	Fresh Chronic	9.	23	0	0.00	14	0	0.00	9	0	0.00						
		Other-Lo Lim.	6.5	23	0	0.00	14	0	0.00	9	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	23	0	0.00	14	0	0.00	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: BICA0085

NPS Station ID: BICA0085
LAT/LON: 45.116392/-108.210309
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38796
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_129 /1038049
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE HILLSBORO MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS INSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0085

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/78-07/05/78	1	800.	800.	800.	800.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/05/78-07/05/78	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/05/78-07/05/78	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/05/78-07/05/78	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/05/78-07/05/78	1	94.7	94.7	94.7	94.7	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/78-07/05/78	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/05/78-07/05/78	1	58.	58.	58.	58.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	07/05/78-07/05/78	1	185.	185.	185.	185.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/05/78-07/05/78	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/05/78-07/05/78	1	36.	36.	36.	36.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/05/78-07/05/78	1	1859.	1859.	1859.	1859.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/05/78-07/05/78	1	29.	29.	29.	29.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	07/05/78-07/05/78	1	144.	144.	144.	144.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/05/78-07/05/78	1	774.	774.	774.	774.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/05/78-07/05/78	1	37.	37.	37.	37.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	1	0.47	0.47	0.47	0.47	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0085

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	1	1.00							1	1	1.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00							1	1	1.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0086

NPS Station ID: BICA0086
LAT/LON: 45.136698/-108.242504
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38797
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_019 /1038050
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE DEAD INDIAN HILL MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS INSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0086

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/78-07/05/78	1	1700.	1700.	1700.	1700.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/05/78-07/05/78	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/05/78-07/05/78	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/05/78-07/05/78	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/78-07/05/78	1	93.2	93.2	93.2	93.2	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/05/78-07/05/78	1	71.	71.	71.	71.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	07/05/78-07/05/78	1	287.	287.	287.	287.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/05/78-07/05/78	1	26.	26.	26.	26.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/05/78-07/05/78	1	88.	88.	88.	88.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/05/78-07/05/78	1	3557.	3557.	3557.	3557.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/05/78-07/05/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	07/05/78-07/05/78	1	161.	161.	161.	161.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/05/78-07/05/78	1	874.	874.	874.	874.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/05/78-07/05/78	1	52.	52.	52.	52.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	1	3.22	3.22	3.22	3.22	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0086

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00							1	1	1.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	1	1.00							1	1	1.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00							1	1	1.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0087

NPS Station ID: BICA0087
LAT/LON: 45.141559/-108.160365
Agency: 11NPSWRD
Date Created: 02/21/98
Location: BIGHORN LAKE NEAR DEADMANS CREEK
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): BICA_MFG_E
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE DEAD INDIAN HILL MONTANA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE NEAR DEADMANS CREEK. SAMPLES FOR THIS SITE WERE COLLECTED FROM 1970-1972 BY THE MONTANA FISH AND GAME DEPARTMENT. SAMPLES WERE ANALYZED FOR DISSOLVED OXYGEN IN 1970 AND TEMPERATURE IN 1970-1972. THE RESULTS WERE OBTAINED FROM NATURAL RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0087

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/70-10/20/72	458	16.1	14.63	23.9	4.4	20.581	4.537	7.74	11.1	17.925	19.8
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/16/70-05/16/72	5	22.2	23.18	29.3	17.2	27.452	5.239	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/22/70-11/04/70	29	6.8	6.51	10.6	0.2	5.433	2.331	3.4	5.2	8.3	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 time series plot

EPA Water Quality Criteria Analysis for Station: BICA0087

			Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	29	4	0.14	17	4	0.24	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: BICA0088

NPS Station ID: BICA0088
LAT/LON: 45.141698/-108.244198
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38791
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_107 /1038044
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE DEAD INDIAN HILL MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS INSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0088

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/30/78-06/30/78	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/30/78-06/30/78	1	1650.	1650.	1650.	1650.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/30/78-06/30/78	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/30/78-06/30/78	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/30/78-06/30/78	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/30/78-06/30/78	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	06/30/78-06/30/78	1	272.	272.	272.	272.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	06/30/78-06/30/78	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	06/30/78-06/30/78	1	89.	89.	89.	89.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	06/30/78-06/30/78	1	3398.	3398.	3398.	3398.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/30/78-06/30/78	1	41.	41.	41.	41.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	06/30/78-06/30/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	06/30/78-06/30/78	1	158.	158.	158.	158.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	06/30/78-06/30/78	1	498.	498.	498.	498.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	06/30/78-06/30/78	1	43.	43.	43.	43.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	06/30/78-06/30/78	1	0.86	0.86	0.86	0.86	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0088

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00							1	1	1.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	1	1.00							1	1	1.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00							1	1	1.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0089

NPS Station ID: BICA0089
LAT/LON: 45.141892/-108.245809
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38790
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_020 /1038043
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE DEAD INDIAN HILL MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS INSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0089

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/30/78-06/30/78	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/30/78-06/30/78	1	1700.	1700.	1700.	1700.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/30/78-06/30/78	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/30/78-06/30/78	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/30/78-06/30/78	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/30/78-06/30/78	1	65.	65.	65.	65.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	06/30/78-06/30/78	1	270.	270.	270.	270.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	06/30/78-06/30/78	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	06/30/78-06/30/78	1	123.	123.	123.	123.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	06/30/78-06/30/78	1	3409.	3409.	3409.	3409.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/30/78-06/30/78	1	48.	48.	48.	48.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	06/30/78-06/30/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	06/30/78-06/30/78	1	144.	144.	144.	144.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	06/30/78-06/30/78	1	271.	271.	271.	271.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	06/30/78-06/30/78	1	42.	42.	42.	42.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	06/30/78-06/30/78	1	4.13	4.13	4.13	4.13	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

EPA Water Quality Criteria Analysis for Station: BICA0089

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00							1	1	1.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	1	1.00							1	1	1.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00							1	1	1.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0090

NPS Station ID: BICA0090
LAT/LON: 45.148615/-108.318892
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M39575
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_018 /1038729
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0090

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/15/78-07/15/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/15/78-07/15/78	1	63.	63.	63.	63.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/15/78-07/15/78	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/15/78-07/15/78	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/15/78-07/15/78	1	0.126	0.126	0.126	0.126	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/15/78-07/15/78	1	57.5	57.5	57.5	57.5	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/15/78-07/15/78	1	25.3	25.3	25.3	25.3	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/15/78-07/15/78	1	52.	52.	52.	52.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	07/15/78-07/15/78	1	285.	285.	285.	285.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/15/78-07/15/78	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/15/78-07/15/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/15/78-07/15/78	1	1478.	1478.	1478.	1478.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/15/78-07/15/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/15/78-07/15/78	1	99.	99.	99.	99.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	07/15/78-07/15/78	1	206.	206.	206.	206.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/15/78-07/15/78	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/15/78-07/15/78	1	22.	22.	22.	22.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/15/78-07/15/78	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: BICA0090

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	1	1.00							1	1	1.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0091

NPS Station ID: BICA0091
LAT/LON: 45.151392/-108.243116
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38789
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_108 /1038042
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE DEAD INDIAN HILL MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0091

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/30/78-06/30/78	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/30/78-06/30/78	1	525.	525.	525.	525.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/30/78-06/30/78	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/30/78-06/30/78	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/30/78-06/30/78	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/30/78-06/30/78	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/30/78-06/30/78	1	35.8	35.8	35.8	35.8	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/30/78-06/30/78	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	06/30/78-06/30/78	1	171.	171.	171.	171.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	06/30/78-06/30/78	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	06/30/78-06/30/78	1	78.	78.	78.	78.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	06/30/78-06/30/78	1	1400.	1400.	1400.	1400.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/30/78-06/30/78	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	06/30/78-06/30/78	1	36.	36.	36.	36.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	06/30/78-06/30/78	1	115.	115.	115.	115.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	06/30/78-06/30/78	1	286.	286.	286.	286.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	06/30/78-06/30/78	1	21.	21.	21.	21.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	06/30/78-06/30/78	1	0.42	0.42	0.42	0.42	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

EPA Water Quality Criteria Analysis for Station: BICA0091

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	1	1.00							1	1	1.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00							1	1	1.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0092

NPS Station ID: BICA0092
LAT/LON: 45.158615/-108.330615
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M39576
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_099 /1038730
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0092

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/15/78-07/15/78	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/15/78-07/15/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/15/78-07/15/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/15/78-07/15/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/15/78-07/15/78	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/15/78-07/15/78	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/15/78-07/15/78	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/15/78-07/15/78	1	37.	37.	37.	37.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	07/15/78-07/15/78	1	197.	197.	197.	197.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/15/78-07/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/15/78-07/15/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/15/78-07/15/78	1	469.	469.	469.	469.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/15/78-07/15/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/15/78-07/15/78	1	49.	49.	49.	49.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	07/15/78-07/15/78	1	164.	164.	164.	164.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/15/78-07/15/78	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/15/78-07/15/78	1	11.	11.	11.	11.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/15/78-07/15/78	1	0.36	0.36	0.36	0.36	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0092

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	1	1.00							1	1	1.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0093

NPS Station ID: BICA0093
LAT/LON: 45.158892/-108.214698
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38787
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_048 /1038040
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE DEAD INDIAN HILL MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0093

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/30/78-06/30/78	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/30/78-06/30/78	1	1500.	1500.	1500.	1500.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/30/78-06/30/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/30/78-06/30/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/30/78-06/30/78	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/30/78-06/30/78	1	89.6	89.6	89.6	89.6	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/30/78-06/30/78	1	38.	38.	38.	38.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	06/30/78-06/30/78	1	290.	290.	290.	290.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	06/30/78-06/30/78	1	22.	22.	22.	22.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	06/30/78-06/30/78	1	55.	55.	55.	55.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	06/30/78-06/30/78	1	2857.	2857.	2857.	2857.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/30/78-06/30/78	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	06/30/78-06/30/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	06/30/78-06/30/78	1	90.	90.	90.	90.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	06/30/78-06/30/78	1	180.	180.	180.	180.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	06/30/78-06/30/78	1	35.	35.	35.	35.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	06/30/78-06/30/78	1	1.52	1.52	1.52	1.52	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0093

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00							1	1	1.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00							1	1	1.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0094

NPS Station ID: BICA0094
LAT/LON: 45.160003/-108.215810
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38788
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_128 /1038041
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE DEAD INDIAN HILL MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0094

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/30/78-06/30/78	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/30/78-06/30/78	1	1700.	1700.	1700.	1700.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/30/78-06/30/78	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/30/78-06/30/78	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/30/78-06/30/78	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/30/78-06/30/78	1	91.1	91.1	91.1	91.1	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/30/78-06/30/78	1	68.	68.	68.	68.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	06/30/78-06/30/78	1	331.	331.	331.	331.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	06/30/78-06/30/78	1	24.	24.	24.	24.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	06/30/78-06/30/78	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	06/30/78-06/30/78	1	3312.	3312.	3312.	3312.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/30/78-06/30/78	1	76.	76.	76.	76.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	06/30/78-06/30/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	06/30/78-06/30/78	1	109.	109.	109.	109.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	06/30/78-06/30/78	1	723.	723.	723.	723.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	06/30/78-06/30/78	1	43.	43.	43.	43.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	06/30/78-06/30/78	1	3.26	3.26	3.26	3.26	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0094

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00							1	1	1.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	1	1.00							1	1	1.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00							1	1	1.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0095

NPS Station ID: BICA0095
LAT/LON: 45.160810/-108.266892
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38800
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_012 /1038052
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0095

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/78-07/05/78	1	600.	600.	600.	600.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/05/78-07/05/78	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/05/78-07/05/78	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/05/78-07/05/78	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/05/78-07/05/78	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/78-07/05/78	1	31.9	31.9	31.9	31.9	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/05/78-07/05/78	1	53.	53.	53.	53.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	07/05/78-07/05/78	1	140.	140.	140.	140.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/05/78-07/05/78	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/05/78-07/05/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/05/78-07/05/78	1	1473.	1473.	1473.	1473.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/05/78-07/05/78	1	68.	68.	68.	68.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	07/05/78-07/05/78	1	160.	160.	160.	160.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/05/78-07/05/78	1	150.	150.	150.	150.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/05/78-07/05/78	1	31.	31.	31.	31.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	1	0.33	0.33	0.33	0.33	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0095

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	1	1.00							1	1	1.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00							1	1	1.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0096

NPS Station ID: BICA0096
LAT/LON: 45.163892/-108.380310
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M39574
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_021 /1038728
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE BIG ICE CAVE MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/15/78-07/15/78	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/15/78-07/15/78	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/15/78-07/15/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/15/78-07/15/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/15/78-07/15/78	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/15/78-07/15/78	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/15/78-07/15/78	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/15/78-07/15/78	1	69.	69.	69.	69.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	07/15/78-07/15/78	1	244.	244.	244.	244.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/15/78-07/15/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/15/78-07/15/78	1	27.	27.	27.	27.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/15/78-07/15/78	1	913.	913.	913.	913.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/15/78-07/15/78	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/15/78-07/15/78	1	72.	72.	72.	72.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	07/15/78-07/15/78	1	153.	153.	153.	153.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/15/78-07/15/78	1	96.	96.	96.	96.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/15/78-07/15/78	1	27.	27.	27.	27.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/15/78-07/15/78	1	0.21	0.21	0.21	0.21	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0096

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	1	1.00							1	1	1.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0097

NPS Station ID: BICA0097
LAT/LON: 45.167504/-107.795615
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129582
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_079 /7020606
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE LIMESTONE CANYON MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0097

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/08/78-10/08/78	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/08/78-10/08/78	1	600.	600.	600.	600.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/08/78-10/08/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/08/78-10/08/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/08/78-10/08/78	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/08/78-10/08/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/08/78-10/08/78	1	31.4	31.4	31.4	31.4	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/08/78-10/08/78	1	5.1	5.1	5.1	5.1	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/08/78-10/08/78	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/08/78-10/08/78	1	109.	109.	109.	109.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/08/78-10/08/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/08/78-10/08/78	1	59.	59.	59.	59.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/08/78-10/08/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/08/78-10/08/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/08/78-10/08/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/08/78-10/08/78	1	48.	48.	48.	48.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/08/78-10/08/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/08/78-10/08/78	1	21.	21.	21.	21.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/08/78-10/08/78	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: BICA0097

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	10/08/78-10/08/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/08/78-10/08/78	1	1463.	1463.	1463.	1463.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/08/78-10/08/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/08/78-10/08/78	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/08/78-10/08/78	1	23.	23.	23.	23.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/08/78-10/08/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/08/78-10/08/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/08/78-10/08/78	1	5000.	5000.	5000.	5000.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/08/78-10/08/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/08/78-10/08/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/08/78-10/08/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/08/78-10/08/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/08/78-10/08/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/08/78-10/08/78	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: BICA0097

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0098

NPS Station ID: BICA0098
LAT/LON: 45.167504/-108.296893
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38799
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_028 /1038051
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/78-07/05/78	1	410.	410.	410.	410.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/05/78-07/05/78	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/05/78-07/05/78	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/05/78-07/05/78	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/05/78-07/05/78	1	57.3	57.3	57.3	57.3	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/78-07/05/78	1	24.7	24.7	24.7	24.7	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/05/78-07/05/78	1	52.	52.	52.	52.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	07/05/78-07/05/78	1	96.	96.	96.	96.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/05/78-07/05/78	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/05/78-07/05/78	1	28.	28.	28.	28.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/05/78-07/05/78	1	1207.	1207.	1207.	1207.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/05/78-07/05/78	1	54.	54.	54.	54.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	07/05/78-07/05/78	1	182.	182.	182.	182.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/05/78-07/05/78	1	316.	316.	316.	316.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/05/78-07/05/78	1	29.	29.	29.	29.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	1	0.81	0.81	0.81	0.81	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0098

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	1	1.00							1	1	1.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00							1	1	1.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0099

NPS Station ID: BICA0099
LAT/LON: 45.168753/-108.151754
Agency: 11NPSWRD
Date Created: 11/15/97
Location: BIGHORN LAKE 20 MILES FROM DAM
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): BICA_SOLT_2
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE DEAD INDIAN HILL MONTANA-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE APPROXIMATELY 20 MILES SOUTH OF YELLOWTAIL DAM. SAMPLES FROM THIS SITE WERE TAKEN DURING A STUDY OF THE POTENTIAL DECLINE IN FISH PRODUCTION OF A NEWLY IMPOUNDED RESERVOIR. SAMPLING WAS DONE FROM 1968 THROUGH 1970; AND THE RESULTS WERE PUBLISHED IN THE THESIS "LIMNOLOGICAL STUDIES ON BIGHORN LAKE AND ITS TRIBUTARIES" BY RAYMOND SOLTERO (MONTANA STATE UNIVERSITY; JUNE 1971). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0099

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/05/68-11/02/68	337	14.7	14.368	23.3	5.6	14.936	3.865	8.54	12.2	16.9	19.24
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/05/68-07/28/69	74	13.	18.878	68.	4.	221.341	14.878	6.	8.	21.25	40.
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	09/09/68-09/08/70	473	90.	85.364	99.	28.	118.029	10.864	71.	83.	92.	94.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/05/68-11/02/68	336	820.	816.28	1370.	430.	23125.372	152.07	628.5	732.5	925.	980.
00406	PH, FIELD, STANDARD UNITS SU	05/05/68-09/08/70	53	8.5	8.457	8.86	7.6	0.057	0.239	8.158	8.3	8.615	8.71
00406	CONVERTED PH, FIELD, STANDARD UNITS	05/05/68-09/08/70	53	8.5	8.377	8.86	7.6	0.064	0.252	8.158	8.3	8.615	8.71
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/05/68-09/08/70	53	0.003	0.004	0.025	0.001	0.	0.004	0.002	0.002	0.005	0.007
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/05/68-09/08/70	54	0.075	0.103	0.41	0.	0.012	0.109	0.	0.02	0.173	0.28
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/05/68-09/08/70	54	0.01	0.008	0.02	0.	0.	0.005	0.	0.004	0.01	0.016
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/05/68-09/08/70	55	0.31	0.333	1.03	0.05	0.046	0.214	0.076	0.15	0.45	0.596
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/05/68-09/08/70	52	0.04	0.066	0.35	0.	0.007	0.085	0.	0.01	0.087	0.221
01042	COPPER, TOTAL (UG/L AS CU)	04/15/69-08/11/69	16	1.	1.	2.	0.	0.133	0.365	0.7	1.	1.	1.3
01055	MANGANESE, TOTAL (UG/L AS MN)	04/15/69-08/11/69	16	1.	13.313	103.	0.	729.829	27.015	0.	1.	11.5	60.3
01092	ZINC, TOTAL (UG/L AS ZN)	04/15/69-08/11/69	16	4.	7.5	21.	0.	46.	6.782	1.4	2.	13.25	19.6
32238	CHLOROPHYLL-A,PHYTOPLANKTON,FLURORMETRIC MTH MG/M3	05/05/68-09/08/70	49	7.3	8.324	26.2	1.4	30.001	5.477	2.8	4.3	9.8	17.3
74010	IRON, TOTAL (MG/L AS FE)	05/05/69-08/11/69	13	0.01	0.038	0.29	0.001	0.006	0.078	0.002	0.005	0.03	0.202

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

EPA Water Quality Criteria Analysis for Station: BICA0099

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	74	5	0.07	21	3	0.14	34	2	0.06	19	0	0.00			
00406	PH, FIELD	Fresh Chronic	9.	53	0	0.00	17	0	0.00	16	0	0.00	20	0	0.00			
		Other-Lo Lim.	6.5	53	0	0.00	17	0	0.00	16	0	0.00	20	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	54	0	0.00	17	0	0.00	17	0	0.00	20	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	55	0	0.00	18	0	0.00	17	0	0.00	20	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	16	0	0.00	1	0	0.00	10	0	0.00	5	0	0.00			
		Drinking Water	1300.	16	0	0.00	1	0	0.00	10	0	0.00	5	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	16	0	0.00	1	0	0.00	10	0	0.00	5	0	0.00			
		Drinking Water	5000.	16	0	0.00	1	0	0.00	10	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: BICA0100

NPS Station ID: BICA0100 LAT/LON: 45.170421/-108.150809 Agency: 11NPSWRD Date Created: 12/20/97
Location: BIGHORN LAKE 1/4 MILE WEST OF DEAD INDIAN HILL FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): BICA_EPA_4E
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE DEAD INDIAN HILL MONTANA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE APPROXIMATELY 1/4 MILE WEST OF DEAD INDIAN HILL. SAMPLES FOR THIS SITE WERE COLLECTED IN MAY; AUGUST; AND OCTOBER 1975. SAMPLES WERE ANALYZED FOR CHLOROPHYLL A AND SECCHI DEPTH. AN INVERSE RELATIONSHIP WAS OBSERVED BETWEEN PLANKTONIC ALGAL CHLOROPHYLL AND SECCHI DEPTH. THE RESULTS WERE PUBLISHED IN THE REPORT "EVALUATION OF WATER QUALITY AND RATE OF SEDIMENTATION IN BIGHORN LAKE; BIGHORN CANYON NATIONAL RECREATION AREA" BY G. FRED LEE AND R. ANNE JONES (COLORADO STATE UNIVERSITY; DECEMBER 1981). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/21/75-10/17/75	3	2.29	3.	6.1	0.61	7.913	2.813	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/21/75-10/17/75	3	2.9	2.533	3.1	1.6	0.663	0.814	**	**	**	**

** - Less than 9 observations ## - 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: BICA0101

NPS Station ID: BICA0101
LAT/LON: 45.172503/-108.253115
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38801
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_029 /1038053
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0101

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/78-07/05/78	1	950.	950.	950.	950.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/05/78-07/05/78	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/05/78-07/05/78	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/05/78-07/05/78	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/05/78-07/05/78	1	84.8	84.8	84.8	84.8	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/78-07/05/78	1	47.5	47.5	47.5	47.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/05/78-07/05/78	1	59.	59.	59.	59.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	07/05/78-07/05/78	1	123.	123.	123.	123.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/05/78-07/05/78	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/05/78-07/05/78	1	46.	46.	46.	46.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/05/78-07/05/78	1	1841.	1841.	1841.	1841.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/05/78-07/05/78	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	07/05/78-07/05/78	1	185.	185.	185.	185.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/05/78-07/05/78	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/05/78-07/05/78	1	35.	35.	35.	35.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	1	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

EPA Water Quality Criteria Analysis for Station: BICA0101

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	1	1.00							1	1	1.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0102

NPS Station ID: BICA0102
LAT/LON: 45.178892/-108.269698
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M39500
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_030 /1038666
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0102

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/78-07/05/78	1	850.	850.	850.	850.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/05/78-07/05/78	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/05/78-07/05/78	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/05/78-07/05/78	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/05/78-07/05/78	1	66.8	66.8	66.8	66.8	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/78-07/05/78	1	63.2	63.2	63.2	63.2	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/05/78-07/05/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	07/05/78-07/05/78	1	716.	716.	716.	716.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/05/78-07/05/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/05/78-07/05/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/05/78-07/05/78	1	782.	782.	782.	782.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/05/78-07/05/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	07/05/78-07/05/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/05/78-07/05/78	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/05/78-07/05/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	1	0.54	0.54	0.54	0.54	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0102

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0103

NPS Station ID: BICA0103
LAT/LON: 45.180003/-108.289393
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M39501
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_027 /1038667
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0103

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/78-07/05/78	1	650.	650.	650.	650.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/05/78-07/05/78	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/05/78-07/05/78	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/05/78-07/05/78	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/05/78-07/05/78	1	78.8	78.8	78.8	78.8	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/78-07/05/78	1	44.8	44.8	44.8	44.8	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/05/78-07/05/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	07/05/78-07/05/78	1	747.	747.	747.	747.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/05/78-07/05/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/05/78-07/05/78	1	45.	45.	45.	45.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/05/78-07/05/78	1	697.	697.	697.	697.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/05/78-07/05/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	07/05/78-07/05/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/05/78-07/05/78	1	120.	120.	120.	120.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/05/78-07/05/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	1	1.33	1.33	1.33	1.33	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0103

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00							1	1	1.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0104

NPS Station ID: BICA0104
LAT/LON: 45.180810/-107.798615
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129580
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_080 /7020603
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE LIMESTONE CANYON MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0104

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/08/78-10/08/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/08/78-10/08/78	1	400.	400.	400.	400.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/08/78-10/08/78	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/08/78-10/08/78	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/08/78-10/08/78	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/08/78-10/08/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/08/78-10/08/78	1	43.	43.	43.	43.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/08/78-10/08/78	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/08/78-10/08/78	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/08/78-10/08/78	1	364.	364.	364.	364.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/08/78-10/08/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/08/78-10/08/78	1	35.	35.	35.	35.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/08/78-10/08/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/08/78-10/08/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/08/78-10/08/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/08/78-10/08/78	1	75.	75.	75.	75.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/08/78-10/08/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/08/78-10/08/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/08/78-10/08/78	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: BICA0104

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	10/08/78-10/08/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/08/78-10/08/78	1	612.	612.	612.	612.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/08/78-10/08/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/08/78-10/08/78	1	108.	108.	108.	108.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/08/78-10/08/78	1	63.	63.	63.	63.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/08/78-10/08/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/08/78-10/08/78	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/08/78-10/08/78	1	7900.	7900.	7900.	7900.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/08/78-10/08/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/08/78-10/08/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/08/78-10/08/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/08/78-10/08/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/08/78-10/08/78	1	4.42	4.42	4.42	4.42	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/08/78-10/08/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/08/78-10/08/78	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: BICA0104

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0105

NPS Station ID: BICA0105
LAT/LON: 45.184392/-107.794198
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129579
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_078 /7020601
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE LIMESTONE CANYON MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0105

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/08/78-10/08/78	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/08/78-10/08/78	1	400.	400.	400.	400.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/08/78-10/08/78	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/08/78-10/08/78	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/08/78-10/08/78	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/08/78-10/08/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/08/78-10/08/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/08/78-10/08/78	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/08/78-10/08/78	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/08/78-10/08/78	1	466.	466.	466.	466.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/08/78-10/08/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/08/78-10/08/78	1	71.	71.	71.	71.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/08/78-10/08/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/08/78-10/08/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/08/78-10/08/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/08/78-10/08/78	1	133.	133.	133.	133.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/08/78-10/08/78	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/08/78-10/08/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/08/78-10/08/78	1 ##	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

Parameter Inventory for Station: BICA0105

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	10/08/78-10/08/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/08/78-10/08/78	1	831.	831.	831.	831.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/08/78-10/08/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/08/78-10/08/78	1	112.	112.	112.	112.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/08/78-10/08/78	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/08/78-10/08/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/08/78-10/08/78	1	24.	24.	24.	24.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/08/78-10/08/78	1	10200.	10200.	10200.	10200.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/08/78-10/08/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/08/78-10/08/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/08/78-10/08/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/08/78-10/08/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/08/78-10/08/78	1	3.15	3.15	3.15	3.15	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/08/78-10/08/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/08/78-10/08/78	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: BICA0105

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0106

NPS Station ID: BICA0106
LAT/LON: 45.185809/-108.236699
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38781
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_115 /1038039
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE DEAD INDIAN HILL MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0106

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/30/78-06/30/78	1	20.5	20.5	20.5	20.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/30/78-06/30/78	1	420.	420.	420.	420.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/30/78-06/30/78	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/30/78-06/30/78	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/30/78-06/30/78	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/30/78-06/30/78	1	54.	54.	54.	54.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/30/78-06/30/78	1	33.8	33.8	33.8	33.8	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/30/78-06/30/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	06/30/78-06/30/78	1	80.	80.	80.	80.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	06/30/78-06/30/78	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	06/30/78-06/30/78	1	119.	119.	119.	119.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	06/30/78-06/30/78	1	963.	963.	963.	963.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/30/78-06/30/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	06/30/78-06/30/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	06/30/78-06/30/78	1	92.	92.	92.	92.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	06/30/78-06/30/78	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	06/30/78-06/30/78	1	13.	13.	13.	13.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	06/30/78-06/30/78	1	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0106

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00							1	1	1.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0107

NPS Station ID: BICA0107
LAT/LON: 45.186392/-107.786892
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129577
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_081 /7020598
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE LIMESTONE CANYON MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0107

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/78-10/07/78	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/78-10/07/78	1	600.	600.	600.	600.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/07/78-10/07/78	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/07/78-10/07/78	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/78-10/07/78	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/78-10/07/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/07/78-10/07/78	1	43.3	43.3	43.3	43.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/07/78-10/07/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/07/78-10/07/78	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/07/78-10/07/78	1	216.	216.	216.	216.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/07/78-10/07/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/07/78-10/07/78	1	36.	36.	36.	36.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/07/78-10/07/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/07/78-10/07/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/07/78-10/07/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/07/78-10/07/78	1	75.	75.	75.	75.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/07/78-10/07/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/07/78-10/07/78	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/07/78-10/07/78	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: BICA0107

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	10/07/78-10/07/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/07/78-10/07/78	1	859.	859.	859.	859.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/07/78-10/07/78	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/07/78-10/07/78	1	28.	28.	28.	28.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/07/78-10/07/78	1	54.	54.	54.	54.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/07/78-10/07/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/07/78-10/07/78	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/07/78-10/07/78	1	6200.	6200.	6200.	6200.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/07/78-10/07/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/07/78-10/07/78	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/07/78-10/07/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/07/78-10/07/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/07/78-10/07/78	1	4.4	4.4	4.4	4.4	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/07/78-10/07/78	1	9.	9.	9.	9.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/07/78-10/07/78	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: BICA0107

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0108

NPS Station ID: BICA0108
LAT/LON: 45.186392/-108.240310
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38780
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_114 /1038038
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE DEAD INDIAN HILL MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0108

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/30/78-06/30/78	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/30/78-06/30/78	1	650.	650.	650.	650.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/30/78-06/30/78	1	8.9	8.9	8.9	8.9	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/30/78-06/30/78	1	8.9	8.9	8.9	8.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/30/78-06/30/78	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/30/78-06/30/78	1	37.4	37.4	37.4	37.4	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/30/78-06/30/78	1	44.7	44.7	44.7	44.7	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/30/78-06/30/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	06/30/78-06/30/78	1	127.	127.	127.	127.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	06/30/78-06/30/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	06/30/78-06/30/78	1	94.	94.	94.	94.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	06/30/78-06/30/78	1	995.	995.	995.	995.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/30/78-06/30/78	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	06/30/78-06/30/78	1	28.	28.	28.	28.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	06/30/78-06/30/78	1	93.	93.	93.	93.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	06/30/78-06/30/78	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	06/30/78-06/30/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	06/30/78-06/30/78	1	0.61	0.61	0.61	0.61	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0108

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0109

NPS Station ID: BICA0109
LAT/LON: 45.186893/-108.228892
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38779
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_011 /1038037
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE DEAD INDIAN HILL MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0109

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/30/78-06/30/78	1	9.5	9.5	9.5	9.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/30/78-06/30/78	1	850.	850.	850.	850.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/30/78-06/30/78	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/30/78-06/30/78	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/30/78-06/30/78	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/30/78-06/30/78	1	51.4	51.4	51.4	51.4	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/30/78-06/30/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	06/30/78-06/30/78	1	165.	165.	165.	165.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	06/30/78-06/30/78	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	06/30/78-06/30/78	1	78.	78.	78.	78.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	06/30/78-06/30/78	1	1619.	1619.	1619.	1619.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/30/78-06/30/78	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	06/30/78-06/30/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	06/30/78-06/30/78	1	121.	121.	121.	121.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	06/30/78-06/30/78	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	06/30/78-06/30/78	1	18.	18.	18.	18.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	06/30/78-06/30/78	1	0.26	0.26	0.26	0.26	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0109

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	1	1.00							1	1	1.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0110

NPS Station ID: BICA0110
LAT/LON: 45.189699/-108.286393
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M39502
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_032 /1038668
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0110

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/78-07/05/78	1	650.	650.	650.	650.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/05/78-07/05/78	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/05/78-07/05/78	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/05/78-07/05/78	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/05/78-07/05/78	1	63.2	63.2	63.2	63.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/78-07/05/78	1	42.6	42.6	42.6	42.6	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/05/78-07/05/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	07/05/78-07/05/78	1	658.	658.	658.	658.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/05/78-07/05/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/05/78-07/05/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/05/78-07/05/78	1	531.	531.	531.	531.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/05/78-07/05/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	07/05/78-07/05/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/05/78-07/05/78	1	56.	56.	56.	56.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/05/78-07/05/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	1	0.78	0.78	0.78	0.78	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0110

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0111

NPS Station ID: BICA0111
LAT/LON: 45.192198/-108.307809
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M39565
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_031 /1038720
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0111

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/14/78-04/14/78	1	9.5	9.5	9.5	9.5	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	04/14/78-04/14/78	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/14/78-04/14/78	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/14/78-04/14/78	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/14/78-04/14/78	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/14/78-04/14/78	1	35.6	35.6	35.6	35.6	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/14/78-04/14/78	1	62.	62.	62.	62.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	04/14/78-04/14/78	1	288.	288.	288.	288.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	04/14/78-04/14/78	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	04/14/78-04/14/78	1	83.	83.	83.	83.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	04/14/78-04/14/78	1	1744.	1744.	1744.	1744.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/14/78-04/14/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	04/14/78-04/14/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	04/14/78-04/14/78	1	182.	182.	182.	182.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/14/78-04/14/78	1	127.	127.	127.	127.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	04/14/78-04/14/78	1	40.	40.	40.	40.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	04/14/78-04/14/78	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: BICA0111

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00	1	1	1.00									
		Drinking Water	15.	1	1	1.00	1	1	1.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	1	1.00	1	1	1.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0112

NPS Station ID: BICA0112
LAT/LON: 45.193309/-108.309393
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M39566
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_109 /1038721
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0112

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/78-07/14/78	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/14/78-07/14/78	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/14/78-07/14/78	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/14/78-07/14/78	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/14/78-07/14/78	1	51.7	51.7	51.7	51.7	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/14/78-07/14/78	1	21.5	21.5	21.5	21.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/14/78-07/14/78	1	55.	55.	55.	55.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	07/14/78-07/14/78	1 ##	27.5	27.5	27.5	27.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/14/78-07/14/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/14/78-07/14/78	1	41.	41.	41.	41.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/14/78-07/14/78	1	1473.	1473.	1473.	1473.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/14/78-07/14/78	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/14/78-07/14/78	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	07/14/78-07/14/78	1	160.	160.	160.	160.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/14/78-07/14/78	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/14/78-07/14/78	1	35.	35.	35.	35.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/14/78-07/14/78	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 time series plot

EPA Water Quality Criteria Analysis for Station: BICA0112

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	1	1.00							1	1	1.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0113

NPS Station ID: BICA0113
LAT/LON: 45.194142/-108.125948
Agency: 11NPSWRD
Date Created: 02/21/98
Location: BIGHORN LAKE NEAR DRYHEAD CANYON
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): BICA_MFG_D
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE DEAD INDIAN HILL MONTANA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE NEAR DRYHEAD CANYON. SAMPLES FOR THIS SITE WERE COLLECTED FROM 1970-1972 BY THE MONTANA FISH AND GAME DEPARTMENT. SAMPLES WERE ANALYZED FOR DISSOLVED OXYGEN IN 1970 AND TEMPERATURE IN 1970-1972. THE RESULTS WERE OBTAINED FROM NATURAL RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0113

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/21/70-10/22/72	511	14.4	13.323	23.3	3.3	24.509	4.951	6.1	9.	17.8	18.9
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/21/70-09/08/71	9	18.9	18.589	32.2	5.6	63.874	7.992	5.6	13.3	23.65	32.2
00300	OXYGEN, DISSOLVED MG/L	05/21/70-12/02/70	34	7.4	6.624	10.8	2.	5.51	2.347	3.5	4.4	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 time series plot

EPA Water Quality Criteria Analysis for Station: BICA0113

			Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	34	5	0.15	21	4	0.19	9	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: BICA0114

NPS Station ID: BICA0114
LAT/LON: 45.204392/-108.324698
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M39567
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_111 /1038722
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0114

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/78-07/14/78	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/14/78-07/14/78	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/14/78-07/14/78	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/14/78-07/14/78	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/14/78-07/14/78	1	89.5	89.5	89.5	89.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/14/78-07/14/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	07/14/78-07/14/78	1	112.	112.	112.	112.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/14/78-07/14/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/14/78-07/14/78	1	118.	118.	118.	118.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/14/78-07/14/78	1	2123.	2123.	2123.	2123.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/14/78-07/14/78	1	49.	49.	49.	49.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/14/78-07/14/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	07/14/78-07/14/78	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/14/78-07/14/78	1	87.	87.	87.	87.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/14/78-07/14/78	1	20.	20.	20.	20.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/14/78-07/14/78	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: BICA0114

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0115

NPS Station ID: BICA0115 LAT/LON: 45.206116/-108.157782 Agency: 21MTHDWQ Date Created: 10/12/85
Location: DRY HEAD CREEK NEAR FORT SMITH YELLOWTAIL FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 2164DR01
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 10080014001405.63 RF3 Mile Point: 6.90 Distance from RF3: 0.08 On/Off RF3:
Description:

Parameter Inventory for Station: BICA0115

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/05/74-05/05/74	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/05/74-05/05/74	1	700.	700.	700.	700.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	05/05/74-05/05/74	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	05/05/74-05/05/74	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/05/74-05/05/74	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/05/74-05/05/74	1	184.	184.	184.	184.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	05/05/74-05/05/74	1	224.	224.	224.	224.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	05/05/74-05/05/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/05/74-05/05/74	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/05/74-05/05/74	1	358.	358.	358.	358.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/05/74-05/05/74	1	90.	90.	90.	90.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/05/74-05/05/74	1	32.4	32.4	32.4	32.4	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/05/74-05/05/74	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/05/74-05/05/74	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/05/74-05/05/74	1	202.	202.	202.	202.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/05/74-05/05/74	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/05/74-05/05/74	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/05/74-05/05/74	1	750.	750.	750.	750.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/05/74-05/05/74	1	70.	70.	70.	70.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/05/74-05/05/74	1	10.	10.	10.	10.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/05/74-05/05/74	1	563.	563.	563.	563.	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/05/74-05/05/74	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/05/74-05/05/74	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: BICA0115

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	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						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
		Drinking Water	250.	1	0	0.00				1	0	0.00						

& - 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: BICA0115

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	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						
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						
		Drinking Water	5000.	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: BICA0116

NPS Station ID: BICA0116
LAT/LON: 45.208892/-107.763615
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129573
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_077 /7020591
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE LIMESTONE CANYON MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0116

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/08/78-10/08/78	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/08/78-10/08/78	1	1000.	1000.	1000.	1000.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/08/78-10/08/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/08/78-10/08/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/08/78-10/08/78	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/08/78-10/08/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/08/78-10/08/78	1	4.4	4.4	4.4	4.4	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/08/78-10/08/78	1	12.6	12.6	12.6	12.6	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/08/78-10/08/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/08/78-10/08/78	1	107.	107.	107.	107.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/08/78-10/08/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/08/78-10/08/78	1	76.	76.	76.	76.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/08/78-10/08/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/08/78-10/08/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/08/78-10/08/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/08/78-10/08/78	1	99.	99.	99.	99.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/08/78-10/08/78	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/08/78-10/08/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/08/78-10/08/78	1 ##	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

Parameter Inventory for Station: BICA0116

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	10/08/78-10/08/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/08/78-10/08/78	1	1650.	1650.	1650.	1650.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/08/78-10/08/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/08/78-10/08/78	1	32.	32.	32.	32.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/08/78-10/08/78	1	75.	75.	75.	75.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/08/78-10/08/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/08/78-10/08/78	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/08/78-10/08/78	1	6000.	6000.	6000.	6000.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/08/78-10/08/78	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/08/78-10/08/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/08/78-10/08/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/08/78-10/08/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/08/78-10/08/78	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/08/78-10/08/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/08/78-10/08/78	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: BICA0116

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0117

NPS Station ID: BICA0117
LAT/LON: 45.215003/-107.763116
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129578
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_007 /7020599
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE LIMESTONE CANYON MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0117

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/08/78-10/08/78	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/08/78-10/08/78	1	900.	900.	900.	900.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/08/78-10/08/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/08/78-10/08/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/08/78-10/08/78	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/08/78-10/08/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/08/78-10/08/78	1	59.9	59.9	59.9	59.9	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/08/78-10/08/78	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/08/78-10/08/78	1	3.6	3.6	3.6	3.6	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/08/78-10/08/78	1	92.	92.	92.	92.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/08/78-10/08/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/08/78-10/08/78	1	111.	111.	111.	111.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/08/78-10/08/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/08/78-10/08/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/08/78-10/08/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/08/78-10/08/78	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/08/78-10/08/78	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/08/78-10/08/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/08/78-10/08/78	1 ##	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

Parameter Inventory for Station: BICA0117

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	10/08/78-10/08/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/08/78-10/08/78	1	2395.	2395.	2395.	2395.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/08/78-10/08/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/08/78-10/08/78	1	95.	95.	95.	95.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/08/78-10/08/78	1	153.	153.	153.	153.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/08/78-10/08/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/08/78-10/08/78	1	23.	23.	23.	23.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/08/78-10/08/78	1	9100.	9100.	9100.	9100.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/08/78-10/08/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/08/78-10/08/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/08/78-10/08/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/08/78-10/08/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/08/78-10/08/78	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/08/78-10/08/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/08/78-10/08/78	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: BICA0117

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0118

NPS Station ID: BICA0118
LAT/LON: 45.215003/-108.286892
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M39569
FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_033 /1038724
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-CARBON CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0118

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/78-07/14/78	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/14/78-07/14/78	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/14/78-07/14/78	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/14/78-07/14/78	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/14/78-07/14/78	1	65.2	65.2	65.2	65.2	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/14/78-07/14/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	07/14/78-07/14/78	1	297.	297.	297.	297.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/14/78-07/14/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/14/78-07/14/78	1	66.	66.	66.	66.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/14/78-07/14/78	1	2321.	2321.	2321.	2321.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/14/78-07/14/78	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/14/78-07/14/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	07/14/78-07/14/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/14/78-07/14/78	1	192.	192.	192.	192.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/14/78-07/14/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/14/78-07/14/78	1	2.21	2.21	2.21	2.21	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0118

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00							1	1	1.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0119

NPS Station ID: BICA0119
LAT/LON: 45.216392/-108.288892
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M39570
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_113 /1038725
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0119

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/78-07/14/78	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/14/78-07/14/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/14/78-07/14/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/14/78-07/14/78	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/14/78-07/14/78	1	83.9	83.9	83.9	83.9	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/14/78-07/14/78	1	25.2	25.2	25.2	25.2	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/14/78-07/14/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	07/14/78-07/14/78	1	247.	247.	247.	247.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/14/78-07/14/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/14/78-07/14/78	1	74.	74.	74.	74.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/14/78-07/14/78	1	1205.	1205.	1205.	1205.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/14/78-07/14/78	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/14/78-07/14/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	07/14/78-07/14/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/14/78-07/14/78	1	133.	133.	133.	133.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/14/78-07/14/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/14/78-07/14/78	1	0.41	0.41	0.41	0.41	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0119

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00							1	1	1.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0120

NPS Station ID: BICA0120 LAT/LON: 45.216670/-108.066670 Agency: 21MTHDWQ Date Created: 12/20/86
Location: BIG BULL ELK CREEK NEAR FORT SMITH YELLOW FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 2165BI01
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 10080015004222.69 RF3 Mile Point: 29.11 Distance from RF3: 0.18 On/Off RF3:
Description:

Parameter Inventory for Station: BICA0120

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/74-05/04/74	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/74-05/04/74	1	327.	327.	327.	327.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/04/74-05/04/74	1	165.	165.	165.	165.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	05/04/74-05/04/74	1	190.	190.	190.	190.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	05/04/74-05/04/74	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/04/74-05/04/74	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/04/74-05/04/74	1	172.	172.	172.	172.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/04/74-05/04/74	1	43.6	43.6	43.6	43.6	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/04/74-05/04/74	1	15.4	15.4	15.4	15.4	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/04/74-05/04/74	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/74-05/04/74	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/74-05/04/74	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/04/74-05/04/74	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/04/74-05/04/74	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/04/74-05/04/74	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/04/74-05/04/74	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/04/74-05/04/74	1	10.	10.	10.	10.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/04/74-05/04/74	1	265.	265.	265.	265.	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/04/74-05/04/74	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/04/74-05/04/74	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: BICA0120

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00				1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
		Drinking Water	250.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						
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						
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: BICA0120

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00				1	0	0.00						
		Drinking Water	5000.	1	0	0.00				1	0	0.00						
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: BICA0121

NPS Station ID: BICA0121
LAT/LON: 45.218115/-108.285616
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M39571
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_034 /1038726
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0121

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/78-07/14/78	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/14/78-07/14/78	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/14/78-07/14/78	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/14/78-07/14/78	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/14/78-07/14/78	1	86.6	86.6	86.6	86.6	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/14/78-07/14/78	1	24.6	24.6	24.6	24.6	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/14/78-07/14/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	07/14/78-07/14/78	1	249.	249.	249.	249.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/14/78-07/14/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/14/78-07/14/78	1	27.	27.	27.	27.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/14/78-07/14/78	1	1210.	1210.	1210.	1210.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/14/78-07/14/78	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/14/78-07/14/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	07/14/78-07/14/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/14/78-07/14/78	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/14/78-07/14/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/14/78-07/14/78	1	0.58	0.58	0.58	0.58	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0121

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0122

NPS Station ID: BICA0122
LAT/LON: 45.218893/-108.343893
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M39568
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_112 /1038723
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE EAST PRYOR MOUNTAIN MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0122

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/78-07/14/78	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/14/78-07/14/78	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/14/78-07/14/78	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/14/78-07/14/78	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/14/78-07/14/78	1	51.5	51.5	51.5	51.5	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/14/78-07/14/78	1	21.2	21.2	21.2	21.2	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/14/78-07/14/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	07/14/78-07/14/78	1 ##	27.5	27.5	27.5	27.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/14/78-07/14/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/14/78-07/14/78	1	73.	73.	73.	73.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/14/78-07/14/78	1	467.	467.	467.	467.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/14/78-07/14/78	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/14/78-07/14/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	07/14/78-07/14/78	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/14/78-07/14/78	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/14/78-07/14/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/14/78-07/14/78	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: BICA0122

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00							1	1	1.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BICA0123

NPS Station ID: BICA0123 LAT/LON: 45.219448/-108.137503 Agency: 21MTHDWQ Date Created: 10/12/85
Location: HOODOO CREEK NEAR FORT SMITH YELLOWTAIL R FIPS State/County: 30009 MONTANA/CARBON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 2164HO01
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 10080010097400.00 RF3 Mile Point: 0.33 Distance from RF3: 0.33 On/Off RF3:
Description:

Parameter Inventory for Station: BICA0123

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/05/74-05/05/74	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/05/74-05/05/74	1	939.	939.	939.	939.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	05/05/74-05/05/74	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	05/05/74-05/05/74	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/05/74-05/05/74	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/05/74-05/05/74	1	160.	160.	160.	160.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	05/05/74-05/05/74	1	185.	185.	185.	185.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	05/05/74-05/05/74	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/05/74-05/05/74	1	0.11	0.11	0.11	0.11	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/05/74-05/05/74	1	516.	516.	516.	516.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/05/74-05/05/74	1	141.	141.	141.	141.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/05/74-05/05/74	1	39.7	39.7	39.7	39.7	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/05/74-05/05/74	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/05/74-05/05/74	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/05/74-05/05/74	1	378.	378.	378.	378.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/05/74-05/05/74	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/05/74-05/05/74	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/05/74-05/05/74	1	300.	300.	300.	300.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/05/74-05/05/74	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/05/74-05/05/74	1	20.	20.	20.	20.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/05/74-05/05/74	1	764.	764.	764.	764.	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/05/74-05/05/74	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/05/74-05/05/74	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: BICA0123

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	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						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
		Drinking Water	250.	1	0	0.00				1	0	0.00						

& - 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: BICA0123

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	1	1.00				1	1	1.00						
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						
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						
		Drinking Water	5000.	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: BICA0124

NPS Station ID: BICA0124
LAT/LON: 45.220837/-108.162503
Agency: 11EPALES
Date Created: / /
Location: DRY HEAD CREEK
FIPS State/County: 56000 WYOMING/
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 5614D1
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: T/YELLOWTAIL RESERVOIR
Elevation: 0
Water Body Id:
Minor Basin: BANK GAGE STA END DIRT RD & TRAIL
ECO Region:
RF1 Index: 10080010003
RF1 Mile Point: 0.200
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 10080014000200.00
RF3 Mile Point: 0.00
Distance from RF3: 0.03
On/Off RF3:
Description:
BANK SAMPLE AT GAGE STATION AT END OF DIRT RD AND TRAIL .1 MI N OF BIB HORN/CARBON CO LINE SEC 16 R29E T7S LU

Parameter Inventory for Station: BICA0124

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/02/74-08/02/75	5	0.02	0.102	0.43	0.01	0.034	0.184	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	11/02/74-11/02/74	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	11/02/74-11/02/74	1	0.232	0.232	0.232	0.232	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/02/74-08/02/75	4	1.1	1.075	1.4	0.7	0.089	0.299	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/02/74-08/02/75	5	0.23	0.228	0.3	0.17	0.003	0.051	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/02/74-08/02/75	4	0.025	0.034	0.08	0.005	0.001	0.034	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/02/74-08/02/75	5 ##	0.003	0.005	0.015	0.003	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: BICA0124

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------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.	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.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			

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

Station Inventory for Station: BICA0125

NPS Station ID: BICA0125
LAT/LON: 45.229392/-107.785616
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129576
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_082 /7020596
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE LIMESTONE CANYON MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0125

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/08/78-10/08/78	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/08/78-10/08/78	1	1200.	1200.	1200.	1200.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/08/78-10/08/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/08/78-10/08/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/08/78-10/08/78	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/08/78-10/08/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/08/78-10/08/78	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/08/78-10/08/78	1	133.	133.	133.	133.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/08/78-10/08/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/08/78-10/08/78	1	409.	409.	409.	409.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/08/78-10/08/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/08/78-10/08/78	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/08/78-10/08/78	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/08/78-10/08/78	1	206.	206.	206.	206.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/08/78-10/08/78	1	38.	38.	38.	38.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/08/78-10/08/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/08/78-10/08/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	10/08/78-10/08/78	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/08/78-10/08/78	1	2388.	2388.	2388.	2388.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: BICA0125

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/08/78-10/08/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/08/78-10/08/78	1	87.	87.	87.	87.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/08/78-10/08/78	1	131.	131.	131.	131.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/08/78-10/08/78	1	31.	31.	31.	31.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/08/78-10/08/78	1	116.	116.	116.	116.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/08/78-10/08/78	1	13300.	13300.	13300.	13300.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/08/78-10/08/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/08/78-10/08/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/08/78-10/08/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/08/78-10/08/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/08/78-10/08/78	1	10.49	10.49	10.49	10.49	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/08/78-10/08/78	1	16.	16.	16.	16.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/08/78-10/08/78	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: BICA0125

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0126

NPS Station ID: BICA0126
LAT/LON: 45.231115/-107.804393
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129603
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_083 /7020631
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE LIMESTONE CANYON MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0126

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/14/78-10/14/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/14/78-10/14/78	1	900.	900.	900.	900.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/14/78-10/14/78	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/14/78-10/14/78	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/14/78-10/14/78	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/14/78-10/14/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/14/78-10/14/78	1	44.9	44.9	44.9	44.9	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/14/78-10/14/78	1	29.4	29.4	29.4	29.4	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/14/78-10/14/78	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/14/78-10/14/78	1	144.	144.	144.	144.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/14/78-10/14/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/14/78-10/14/78	1	97.	97.	97.	97.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/14/78-10/14/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/14/78-10/14/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/14/78-10/14/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/14/78-10/14/78	1	68.	68.	68.	68.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/14/78-10/14/78	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/14/78-10/14/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/14/78-10/14/78	1	9.	9.	9.	9.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: BICA0126

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	10/14/78-10/14/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/14/78-10/14/78	1	1056.	1056.	1056.	1056.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/14/78-10/14/78	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/14/78-10/14/78	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/14/78-10/14/78	1	56.	56.	56.	56.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/14/78-10/14/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/14/78-10/14/78	1	28.	28.	28.	28.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/14/78-10/14/78	1	8400.	8400.	8400.	8400.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/14/78-10/14/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/14/78-10/14/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/14/78-10/14/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/14/78-10/14/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/14/78-10/14/78	1	7.72	7.72	7.72	7.72	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/14/78-10/14/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/14/78-10/14/78	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: BICA0126

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0127

NPS Station ID: BICA0127 LAT/LON: 45.233337/-108.066670 Agency: 21MTHDWQ Date Created: 12/20/86
Location: LITTLE BULL ELK CRK NEAR FORT SMITH YELL FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 2165LI01
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 10080010009000.00 RF3 Mile Point: 0.07 Distance from RF3: 0.20 On/Off RF3:
Description:

Parameter Inventory for Station: BICA0127

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/74-05/04/74	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/74-05/04/74	1	343.	343.	343.	343.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	05/04/74-05/04/74	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	05/04/74-05/04/74	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/74-05/04/74	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/04/74-05/04/74	1	178.	178.	178.	178.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	05/04/74-05/04/74	1	205.	205.	205.	205.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	05/04/74-05/04/74	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/04/74-05/04/74	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/04/74-05/04/74	1	182.	182.	182.	182.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/04/74-05/04/74	1	49.4	49.4	49.4	49.4	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/04/74-05/04/74	1	14.4	14.4	14.4	14.4	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/04/74-05/04/74	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/74-05/04/74	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/74-05/04/74	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/04/74-05/04/74	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/04/74-05/04/74	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/04/74-05/04/74	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/04/74-05/04/74	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/04/74-05/04/74	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/04/74-05/04/74	1	283.	283.	283.	283.	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/04/74-05/04/74	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/04/74-05/04/74	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: BICA0127

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	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						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
		Drinking Water	250.	1	0	0.00				1	0	0.00						

& - 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: BICA0127

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	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						
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						
		Drinking Water	5000.	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: BICA0128

NPS Station ID: BICA0128
LAT/LON: 45.233892/-108.077227
Agency: 11EPALES
Date Created: 01/14/76
Location: YELLOWTAIL RESERVOIR
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 561405
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 999
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10080010016
RF1 Mile Point: 5.980
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 10080010002300.82
RF3 Mile Point: 5.67
Distance from RF3: 0.08
On/Off RF3:
Description:

Parameter Inventory for Station: BICA0128

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/75-10/17/75	24	16.55	14.85	21.5	4.8	32.568	5.707	5.45	11.325	21.175	21.4
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	05/22/75-10/17/75	24	100.	97.917	101.	81.	27.21	5.216	88.5	98.	101.	101.
00077	TRANSPARENCY, SECCHI DISC (INCHES)	05/22/75-10/17/75	3	120.	140.	240.	60.	8400.	91.652	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/22/75-10/17/75	24	564.	578.417	718.	457.	6862.341	82.839	460.	523.75	644.5	703.
00300	OXYGEN, DISSOLVED MG/L	05/22/75-10/17/75	23	7.4	7.183	9.6	5.	1.814	1.347	5.24	6.	8.	9.2
00400	PH (STANDARD UNITS)	05/22/75-10/17/75	24	8.1	8.058	8.25	7.8	0.019	0.137	7.9	7.9	8.2	8.225
00400	CONVERTED PH (STANDARD UNITS)	05/22/75-10/17/75	24	8.1	8.037	8.25	7.8	0.019	0.139	7.9	7.9	8.2	8.225
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/22/75-10/17/75	24	0.008	0.009	0.016	0.006	0.	0.003	0.006	0.006	0.013	0.013
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/22/75-10/17/75	24	142.	145.417	186.	107.	712.775	26.698	108.5	126.5	172.25	180.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/22/75-10/17/75	24 ##	0.015	0.03	0.09	0.01	0.001	0.028	0.01	0.01	0.048	0.085
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/22/75-10/17/75	24	0.2	0.171	0.3	0.1	0.006	0.075	0.1	0.1	0.2	0.3
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/22/75-10/17/75	24	0.285	0.341	0.72	0.22	0.017	0.13	0.22	0.245	0.445	0.52
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/75-10/17/75	24	0.026	0.032	0.116	0.018	0.	0.02	0.019	0.021	0.036	0.049
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/22/75-10/17/75	24	0.02	0.02	0.028	0.016	0.	0.003	0.017	0.017	0.022	0.027
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	05/22/75-10/17/75	3	1.5	2.4	4.4	1.3	3.01	1.735	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	05/22/75-10/17/75	3	999.	734.	999.	204.	210675.	458.993	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0128

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	23	0	0.00	15	0	0.00	8	0	0.00						
00400	PH	Fresh Chronic	9.	24	0	0.00	15	0	0.00	9	0	0.00						
		Other-Lo Lim.	6.5	24	0	0.00	15	0	0.00	9	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	24	0	0.00	15	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: BICA0129

NPS Station ID: BICA0129 LAT/LON: 45.234920/-108.077087 Agency: 11NPSWRD Date Created: 12/20/97
Location: BIGHORN LAKE AT MOUTH OF BIG BULL ELK CANYON FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): BICA_EPA_5E
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE LITTLE FINGER RIDGE MONTANA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE AT THE MOUTH OF BIG BULL ELK CANYON. SAMPLES FOR THIS SITE WERE COLLECTED IN MAY; AUGUST; AND OCTOBER 1975. SAMPLES WERE ANALYZED FOR CHLOROPHYLL A AND SECCHI DEPTH. AN INVERSE RELATIONSHIP WAS OBSERVED BETWEEN PLANKTONIC ALGAL CHLOROPHYLL AND SECCHI DEPTH. THE RESULTS WERE PUBLISHED IN THE REPORT "EVALUATION OF WATER QUALITY AND RATE OF SEDIMENTATION IN BIGHORN LAKE; BIGHORN CANYON NATIONAL RECREATION AREA" BY G. FRED LEE AND R. ANNE JONES (COLORADO STATE UNIVERSITY; DECEMBER 1981). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0129

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/21/75-10/17/75	3	3.05	3.557	6.1	1.52	5.437	2.332	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/21/75-10/17/75	3	1.5	2.4	4.4	1.3	3.01	1.735	**	**	**	**

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

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

Station Inventory for Station: BICA0130

NPS Station ID: BICA0130
LAT/LON: 45.236699/-107.830003
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129617
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_071 /7020651
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE LIMESTONE CANYON MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0130

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/78-10/15/78	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/15/78-10/15/78	1	1000.	1000.	1000.	1000.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/15/78-10/15/78	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/15/78-10/15/78	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/15/78-10/15/78	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/15/78-10/15/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/78-10/15/78	1	44.	44.	44.	44.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/15/78-10/15/78	1	76.1	76.1	76.1	76.1	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/78-10/15/78	1	3.9	3.9	3.9	3.9	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/15/78-10/15/78	1	83.	83.	83.	83.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/15/78-10/15/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/15/78-10/15/78	1	150.	150.	150.	150.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/15/78-10/15/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/78-10/15/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/15/78-10/15/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/15/78-10/15/78	1	31.	31.	31.	31.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/15/78-10/15/78	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/15/78-10/15/78	1	16.	16.	16.	16.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: BICA0130

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/78-10/15/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/15/78-10/15/78	1	604.	604.	604.	604.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/15/78-10/15/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/78-10/15/78	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/15/78-10/15/78	1	37.	37.	37.	37.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/15/78-10/15/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/15/78-10/15/78	1	27.	27.	27.	27.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/15/78-10/15/78	1	6800.	6800.	6800.	6800.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/15/78-10/15/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/15/78-10/15/78	1	18.	18.	18.	18.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/15/78-10/15/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/15/78-10/15/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/15/78-10/15/78	1	11.08	11.08	11.08	11.08	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/15/78-10/15/78	1	12.	12.	12.	12.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/15/78-10/15/78	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: BICA0130

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	1	1.00	1	1	1.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0131

NPS Station ID: BICA0131
LAT/LON: 45.239198/-107.855809
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129618
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_074 /7020653
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE LIMESTONE CANYON MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0131

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/78-10/15/78	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/15/78-10/15/78	1	700.	700.	700.	700.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/15/78-10/15/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/15/78-10/15/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/15/78-10/15/78	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/15/78-10/15/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/78-10/15/78	1	48.5	48.5	48.5	48.5	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/15/78-10/15/78	1	46.9	46.9	46.9	46.9	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/78-10/15/78	1	4.7	4.7	4.7	4.7	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/15/78-10/15/78	1	142.	142.	142.	142.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/15/78-10/15/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/15/78-10/15/78	1	86.	86.	86.	86.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/78-10/15/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/15/78-10/15/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/15/78-10/15/78	1	130.	130.	130.	130.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/15/78-10/15/78	1	32.	32.	32.	32.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/15/78-10/15/78	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: BICA0131

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/78-10/15/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/15/78-10/15/78	1	974.	974.	974.	974.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/78-10/15/78	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/15/78-10/15/78	1	150.	150.	150.	150.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/15/78-10/15/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/15/78-10/15/78	1	27.	27.	27.	27.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/15/78-10/15/78	1	9200.	9200.	9200.	9200.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/15/78-10/15/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/15/78-10/15/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/15/78-10/15/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/15/78-10/15/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/15/78-10/15/78	1	8.46	8.46	8.46	8.46	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/15/78-10/15/78	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: BICA0131

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0132

NPS Station ID: BICA0132
LAT/LON: 45.247587/-108.073226
Agency: 11NPSWRD
Date Created: 11/15/97
Location: BIGHORN LAKE 10 MILES FROM DAM
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): BICA_SOLT_1
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE LITTLE FINGER RIDGE MONTANA-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE APPROXIMATELY 10 MILES SOUTH OF YELLOWTAIL DAM. SAMPLES FROM THIS SITE WERE TAKEN DURING A STUDY OF THE POTENTIAL DECLINE IN FISH PRODUCTION OF A NEWLY IMPOUNDED RESERVOIR. SAMPLING WAS DONE FROM 1968 THROUGH 1970; AND THE RESULTS WERE PUBLISHED IN THE THESIS "LIMNOLOGICAL STUDIES ON BIGHORN LAKE AND ITS TRIBUTARIES" BY RAYMOND SOLTERO (MONTANA STATE UNIVERSITY; JUNE 1971). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0132

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/05/68-11/02/68	410	13.3	12.845	22.5	4.4	19.445	4.41	6.7	8.525	16.7	18.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/05/68-07/28/69	90	12.	14.011	44.	4.	59.067	7.686	8.	8.	20.	22.
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	09/09/68-09/08/70	543	90.	88.657	98.	59.	32.288	5.682	82.	87.	92.	94.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/05/68-11/02/68	408	770.	798.194	1000.	540.	17690.363	133.005	620.	690.	930.	970.
00406	PH, FIELD, STANDARD UNITS SU	05/05/68-09/08/70	51	8.5	8.439	8.75	8.02	0.035	0.186	8.11	8.3	8.59	8.688
00406	CONVERTED PH, FIELD, STANDARD UNITS	05/05/68-09/08/70	51	8.5	8.397	8.75	8.02	0.036	0.191	8.11	8.3	8.59	8.688
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/05/68-09/08/70	51	0.003	0.004	0.01	0.002	0.	0.002	0.002	0.003	0.005	0.008
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/05/68-09/08/70	54	0.03	0.101	0.65	0.	0.02	0.14	0.	0.008	0.145	0.255
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/05/68-09/08/70	55	0.01	0.008	0.02	0.	0.	0.005	0.	0.005	0.01	0.016
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/05/68-09/08/70	56	0.31	0.324	1.03	0.08	0.032	0.178	0.124	0.2	0.433	0.542
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/05/68-09/08/70	53	0.05	0.057	0.28	0.	0.004	0.067	0.	0.01	0.075	0.16
01042	COPPER, TOTAL (UG/L AS CU)	04/15/69-08/11/69	16	1.	1.063	2.	0.	0.196	0.443	0.7	1.	1.	2.
01055	MANGANESE, TOTAL (UG/L AS MN)	04/15/69-08/11/69	16	2.	13.625	67.	0.	428.517	20.701	0.7	1.	19.	57.2
01092	ZINC, TOTAL (UG/L AS ZN)	04/15/69-08/11/69	16	6.	10.063	40.	0.	118.329	10.878	1.4	2.	17.25	28.1
32238	CHLOROPHYLL-A,PHYTOPLANKTON,FLURORMETRIC MTH MG/M3	05/05/68-09/08/70	50	3.7	4.86	20.2	0.	13.432	3.665	1.44	2.1	7.1	9.62
74010	IRON, TOTAL (MG/L AS FE)	05/05/69-08/11/69	13	0.007	0.03	0.19	0.001	0.003	0.052	0.002	0.005	0.035	0.138

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

EPA Water Quality Criteria Analysis for Station: BICA0132

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	90	0	0.00	27	0	0.00	37	0	0.00	26	0	0.00			
00406	PH, FIELD	Fresh Chronic	9.	51	0	0.00	17	0	0.00	16	0	0.00	18	0	0.00			
		Other-Lo Lim.	6.5	51	0	0.00	17	0	0.00	16	0	0.00	18	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	55	0	0.00	17	0	0.00	18	0	0.00	20	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	56	0	0.00	18	0	0.00	18	0	0.00	20	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	16	0	0.00	1	0	0.00	10	0	0.00	5	0	0.00			
		Drinking Water	1300.	16	0	0.00	1	0	0.00	10	0	0.00	5	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	16	0	0.00	1	0	0.00	10	0	0.00	5	0	0.00			
		Drinking Water	5000.	16	0	0.00	1	0	0.00	10	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: BICA0133

NPS Station ID: BICA0133
LAT/LON: 45.248892/-107.859698
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129619
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_073 /7020655
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE LIMESTONE CANYON MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0133

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/79-10/15/79	1	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/15/79-10/15/79	1	700.	700.	700.	700.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/15/79-10/15/79	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/15/79-10/15/79	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/15/79-10/15/79	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/15/79-10/15/79	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/15/79-10/15/79	1	95.1	95.1	95.1	95.1	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/79-10/15/79	1	35.2	35.2	35.2	35.2	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/15/79-10/15/79	1	35.	35.	35.	35.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/79-10/15/79	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/15/79-10/15/79	1	104.	104.	104.	104.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/15/79-10/15/79	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/15/79-10/15/79	1	65.	65.	65.	65.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/15/79-10/15/79	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/79-10/15/79	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/15/79-10/15/79	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/15/79-10/15/79	1	39.	39.	39.	39.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/15/79-10/15/79	1	21.	21.	21.	21.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/15/79-10/15/79	1 ##	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

Parameter Inventory for Station: BICA0133

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/15/79-10/15/79	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/79-10/15/79	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/15/79-10/15/79	1	699.	699.	699.	699.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/15/79-10/15/79	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/79-10/15/79	1	28.	28.	28.	28.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/15/79-10/15/79	1	49.	49.	49.	49.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/15/79-10/15/79	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/15/79-10/15/79	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/15/79-10/15/79	1	6600.	6600.	6600.	6600.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/15/79-10/15/79	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/15/79-10/15/79	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/15/79-10/15/79	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/15/79-10/15/79	1	1.	1.	1.	1.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/15/79-10/15/79	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/15/79-10/15/79	1	7.	7.	7.	7.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/15/79-10/15/79	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: BICA0133

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	1	1.00	1	1	1.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0134

NPS Station ID: BICA0134 LAT/LON: 45.250005/-107.966670 Agency: 21MTHDWQ Date Created: 12/20/86
Location: BLACK CANYON CREEK NR FORT SMITH-YELLOWTA FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 2166BL01
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 10080010001602.76 RF3 Mile Point: 2.92 Distance from RF3: 0.08 On/Off RF3:
Description:

Parameter Inventory for Station: BICA0134

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/74-05/04/74	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/74-05/04/74	1	330.	330.	330.	330.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	05/04/74-05/04/74	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	05/04/74-05/04/74	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/74-05/04/74	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/04/74-05/04/74	1	164.	164.	164.	164.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	05/04/74-05/04/74	1	200.	200.	200.	200.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	05/04/74-05/04/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/04/74-05/04/74	1	0.24	0.24	0.24	0.24	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/04/74-05/04/74	1	177.	177.	177.	177.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/04/74-05/04/74	1	44.9	44.9	44.9	44.9	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/04/74-05/04/74	1	15.7	15.7	15.7	15.7	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/04/74-05/04/74	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/74-05/04/74	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/74-05/04/74	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/04/74-05/04/74	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/04/74-05/04/74	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/04/74-05/04/74	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/04/74-05/04/74	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/04/74-05/04/74	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/04/74-05/04/74	1	277.	277.	277.	277.	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/04/74-05/04/74	1	0.039	0.039	0.039	0.039	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/04/74-05/04/74	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: BICA0134

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	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						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
		Drinking Water	250.	1	0	0.00				1	0	0.00						

& - 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: BICA0134

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	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						
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						
		Drinking Water	5000.	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: BICA0135

NPS Station ID: BICA0135
LAT/LON: 45.251698/-108.281393
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38069
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_116 /1037437
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE DEEP CREEK SE MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0135

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	1	1100.	1100.	1100.	1100.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	01/20/79-01/20/79	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/20/79-01/20/79	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/20/79-01/20/79	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	1	71.3	71.3	71.3	71.3	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	1	29.8	29.8	29.8	29.8	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	1	305.	305.	305.	305.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	1	54.	54.	54.	54.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	1	57.	57.	57.	57.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	1	642.	642.	642.	642.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	1	161.	161.	161.	161.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	1	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

EPA Water Quality Criteria Analysis for Station: BICA0135

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00	1	1	1.00									
		Drinking Water	15.	1	1	1.00	1	1	1.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0136

NPS Station ID: BICA0136 LAT/LON: 45.252698/-108.065227 Agency: 11NPSWRD Date Created: 02/21/98
Location: BIGHORN LAKE NEAR LITTLE BULL ELK CREEK FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): BICA_MFG_C
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE GRAPEVINE DOME MONTANA-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE NEAR LITTLE BULL ELK CREEK. SAMPLES FOR THIS SITE WERE COLLECTED FROM 1970-1972 BY THE MONTANA FISH AND GAME DEPARTMENT. SAMPLES WERE ANALYZED FOR DISSOLVED OXYGEN IN 1970 AND TEMPERATURE IN 1970-1972. THE RESULTS WERE OBTAINED FROM NATURAL RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0136

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/21/70-10/20/72	440	15.	13.669	22.2	2.8	25.511	5.051	5.51	10.	17.8	19.19
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/18/70-09/28/70	2	23.6	23.6	25.	22.2	3.92	1.98	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/21/70-11/03/70	30	6.3	6.687	9.8	3.2	3.315	1.821	4.6	5.4	8.45	9.36

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: BICA0136

			Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	30	2	0.07	17	2	0.12	9	0	0.00	4	0	0.00			

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

Station Inventory for Station: BICA0137

NPS Station ID: BICA0137
LAT/LON: 45.258309/-107.855309
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129620
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_072 /7020657
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE MOUNTAIN POCKET CREEK MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0137

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/78-10/15/78	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/15/78-10/15/78	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/15/78-10/15/78	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/15/78-10/15/78	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/15/78-10/15/78	1	0.55	0.55	0.55	0.55	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/78-10/15/78	1	45.9	45.9	45.9	45.9	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/15/78-10/15/78	1	47.8	47.8	47.8	47.8	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/78-10/15/78	1	3.3	3.3	3.3	3.3	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/15/78-10/15/78	1	139.	139.	139.	139.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/15/78-10/15/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/15/78-10/15/78	1	84.	84.	84.	84.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/15/78-10/15/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/78-10/15/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/15/78-10/15/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/15/78-10/15/78	1	292.	292.	292.	292.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/15/78-10/15/78	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/15/78-10/15/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/15/78-10/15/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/78-10/15/78	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: BICA0137

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/15/78-10/15/78	1	901.	901.	901.	901.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/15/78-10/15/78	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/78-10/15/78	1	62.	62.	62.	62.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/15/78-10/15/78	1	359.	359.	359.	359.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/15/78-10/15/78	1	35.	35.	35.	35.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/15/78-10/15/78	1	27.	27.	27.	27.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/15/78-10/15/78	1	8800.	8800.	8800.	8800.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/15/78-10/15/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/15/78-10/15/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/15/78-10/15/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/15/78-10/15/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/15/78-10/15/78	1	8.12	8.12	8.12	8.12	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/15/78-10/15/78	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: BICA0137

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	1	1.00	1	1	1.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0138

NPS Station ID: BICA0138
LAT/LON: 45.264392/-107.771698
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129574
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_084 /7020593
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE MOUNTAIN POCKET CREEK MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0138

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/08/78-10/08/78	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/08/78-10/08/78	1	1000.	1000.	1000.	1000.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/08/78-10/08/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/08/78-10/08/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/08/78-10/08/78	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/08/78-10/08/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/08/78-10/08/78	1	92.6	92.6	92.6	92.6	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/08/78-10/08/78	1	41.4	41.4	41.4	41.4	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/08/78-10/08/78	1	4.7	4.7	4.7	4.7	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/08/78-10/08/78	1	217.	217.	217.	217.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/08/78-10/08/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/08/78-10/08/78	1	195.	195.	195.	195.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/08/78-10/08/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/08/78-10/08/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/08/78-10/08/78	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/08/78-10/08/78	1	234.	234.	234.	234.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/08/78-10/08/78	1	112.	112.	112.	112.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/08/78-10/08/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/08/78-10/08/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: BICA0138

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	10/08/78-10/08/78	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/08/78-10/08/78	1	3677.	3677.	3677.	3677.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/08/78-10/08/78	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/08/78-10/08/78	1	54.	54.	54.	54.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/08/78-10/08/78	1	198.	198.	198.	198.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/08/78-10/08/78	1	35.	35.	35.	35.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/08/78-10/08/78	1	46.	46.	46.	46.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/08/78-10/08/78	1	11900.	11900.	11900.	11900.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/08/78-10/08/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/08/78-10/08/78	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/08/78-10/08/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/08/78-10/08/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/08/78-10/08/78	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/08/78-10/08/78	1	25.	25.	25.	25.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/08/78-10/08/78	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: BICA0138

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0139

NPS Station ID: BICA0139
LAT/LON: 45.264448/-107.759726
Agency: 21MTHDWQ
Date Created: 10/12/85
Location: SOAP CREEK ABOVE OIL FIELD NEAR FT. SMITH
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 2267SO05
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10080015003700.00
RF3 Mile Point: 1.34
Distance from RF3: 0.01
On/Off RF3:
Description:
CROW 208 WQ PROGRAM

Parameter Inventory for Station: BICA0139

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/01/76-07/06/77	7	16.	12.	22.	0.	57.333	7.572	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/01/76-07/06/77	7	26.	27.857	43.	21.	55.81	7.471	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/01/76-07/06/77	7	880.	840.714	1000.	525.	24203.571	155.575	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/11/77-07/06/77	4	872.	908.25	1056.	833.	10082.917	100.414	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/01/76-07/06/77	6	9.75	9.833	12.4	7.6	2.715	1.648	**	**	**	**
00400	PH (STANDARD UNITS)	07/01/76-07/06/77	7	8.1	7.986	8.3	7.2	0.151	0.389	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/01/76-07/06/77	7	8.1	7.791	8.3	7.2	0.196	0.442	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/01/76-07/06/77	7	0.008	0.016	0.063	0.005	0.	0.021	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	01/11/77-07/06/77	4	8.05	8.075	8.2	8.	0.009	0.096	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	01/11/77-07/06/77	4	8.047	8.067	8.2	8.	0.009	0.096	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/11/77-07/06/77	4	0.009	0.009	0.01	0.006	0.	0.002	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/01/76-07/06/77	7	193.	193.286	230.	170.	426.571	20.654	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	01/11/77-07/06/77	4	234.	239.	281.	207.	1212.667	34.823	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	01/11/77-07/06/77	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/09/76-07/06/77	5	42.	36.4	53.	18.	229.3	15.143	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/01/76-07/06/77	7 ##	0.05	0.209	0.7	0.005	0.076	0.275	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/01/76-07/06/77	7	0.08	0.132	0.37	0.025	0.018	0.134	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/01/76-07/06/77	7	0.5	0.457	0.9	0.05	0.086	0.293	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/01/76-07/06/77	7	0.01	0.038	0.15	0.005	0.003	0.053	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/77-07/06/77	4	464.5	470.	510.	441.	974.	31.209	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/77-07/06/77	4	126.5	129.	141.	122.	76.667	8.756	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/77-07/06/77	4	36.85	35.925	41.7	28.3	32.669	5.716	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	01/11/77-07/06/77	4	10.5	18.5	45.	8.	313.667	17.711	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/77-07/06/77	4	2.	4.25	11.	2.	20.25	4.5	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	01/11/77-07/06/77	4	3.5	3.75	6.	2.	2.917	1.708	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	01/11/77-07/06/77	4	300.5	303.75	342.	272.	952.25	30.859	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	01/11/77-07/06/77	4	0.485	0.49	0.52	0.47	0.	0.022	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/77-07/06/77	4	10.	10.	12.	8.	2.667	1.633	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	01/11/77-07/06/77	4 ##	1.	0.875	1.	0.5	0.063	0.25	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	01/11/77-07/06/77	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	01/11/77-07/06/77	4	107.	193.5	480.	80.	36755.667	191.718	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	01/11/77-07/06/77	4 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	01/11/77-07/06/77	4	15.	24.	61.	5.	647.333	25.443	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	01/11/77-07/06/77	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	01/11/77-07/06/77	4 ##	7.5	10.75	23.	5.	72.25	8.5	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	01/11/77-07/06/77	4	525.	542.5	870.	250.	92491.667	304.124	**	**	**	**

** - 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

Parameter Inventory for Station: BICA0139

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01051	LEAD, TOTAL (UG/L AS PB)	01/11/77-07/06/77	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/11/77-07/06/77	4	30.	35.	60.	20.	300.	17.321	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	01/11/77-07/06/77	4 ##	5.	11.75	32.	5.	182.25	13.5	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	01/11/77-07/06/77	4	29.5	59.75	175.	5.	6124.917	78.262	**	**	**	**
01082	STRONTIUM, TOTAL (UG/L AS SR)	01/11/77-07/06/77	4	2704.5	3266.75	6059.	1599.	3791106.917	1947.077	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	01/11/77-07/06/77	4 ##	5.	6.25	10.	5.	6.25	2.5	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	01/11/77-07/06/77	4	31.	39.75	92.	5.	1657.583	40.713	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	01/11/77-07/06/77	4	320.	1209.75	4099.	100.	3721473.583	1929.112	**	**	**	**
01132	LITHIUM, TOTAL (UG/L AS LI)	01/11/77-07/06/77	4	35.5	33.25	52.	10.	482.25	21.96	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	01/11/77-07/06/77	4 ##	1.	0.875	1.	0.5	0.063	0.25	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/11/77-07/06/77	4	650.5	658.75	749.	585.	4881.583	69.868	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/77-07/06/77	4	729.5	745.5	859.	664.	7999.	89.437	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/01/76-07/06/77	7 ##	0.005	0.006	0.01	0.005	0.	0.002	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	01/11/77-07/06/77	4	0.3	0.45	1.1	0.1	0.197	0.443	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0139

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	6	0	0.00	2	0	0.00	2	0	0.00	2	0	0.00			
00400	PH	Fresh Chronic	9.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Other-Lo Lim.	6.5	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
00403	PH, LAB	Fresh Chronic	9.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	250.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	4	1.00	1	1	1.00	2	2	1.00	1	1	1.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	50.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01027	CADMIUM, TOTAL	Fresh Acute	3.9	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	5.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	4	1	0.25	1	0	0.00	2	0	0.00	1	1	1.00			
		Drinking Water	1300.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	15.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	100.	4	1	0.25	1	0	0.00	2	1	0.50	1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	5000.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	50.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	2.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			

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

Station Inventory for Station: BICA0140

NPS Station ID: BICA0140
LAT/LON: 45.274170/-107.999171
Agency: 11EPALES
Date Created: 01/14/76
Location: YELLOWTAIL RESERVOIR
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 561406
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 160
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10080010014
RF1 Mile Point: 7.080
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 10080010000102.65
RF3 Mile Point: 2.74
Distance from RF3: 0.17
On/Off RF3:
Description:

Parameter Inventory for Station: BICA0140

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/75-10/17/75	22	16.9	14.364	21.9	2.7	47.597	6.899	2.92	8.45	21.3	21.67
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	05/22/75-10/17/75	22	100.	100.182	101.	97.	0.727	0.853	100.	100.	101.	101.
00077	TRANSPARENCY, SECCHI DISC (INCHES)	05/22/75-10/17/75	3	192.	176.	240.	96.	5376.	73.321	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/22/75-10/17/75	22	481.5	482.955	621.	369.	2444.807	49.445	425.3	462.	511.5	536.7
00300	OXYGEN, DISSOLVED MG/L	05/22/75-10/17/75	22	7.	8.073	11.6	5.2	4.631	2.152	5.8	6.35	10.6	11.08
00400	PH (STANDARD UNITS)	05/22/75-10/17/75	22	8.1	8.12	8.4	7.9	0.017	0.131	7.93	8.	8.2	8.34
00400	CONVERTED PH (STANDARD UNITS)	05/22/75-10/17/75	22	8.1	8.102	8.4	7.9	0.017	0.132	7.93	8.	8.2	8.34
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/22/75-10/17/75	22	0.008	0.008	0.013	0.004	0.	0.002	0.005	0.006	0.01	0.012
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/22/75-10/17/75	22	138.5	143.455	180.	110.	727.212	26.967	110.3	112.	173.75	179.1
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/22/75-10/17/75	22 ##	0.01	0.02	0.06	0.01	0.	0.015	0.01	0.01	0.03	0.047
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/22/75-10/17/75	22 ##	0.1	0.15	0.3	0.1	0.005	0.067	0.1	0.1	0.2	0.27
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/22/75-10/17/75	22	0.26	0.278	0.43	0.18	0.006	0.077	0.2	0.215	0.34	0.421
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/75-10/17/75	22	0.019	0.02	0.024	0.016	0.	0.002	0.016	0.018	0.022	0.023
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/22/75-10/17/75	22	0.015	0.015	0.021	0.011	0.	0.002	0.013	0.013	0.016	0.019
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	05/22/75-10/17/75	3	1.9	1.867	2.1	1.6	0.063	0.252	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	05/22/75-10/17/75	3	166.	441.667	999.	160.	232974.333	482.674	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0140

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	22	0	0.00	14	0	0.00	8	0	0.00						
00400	PH	Fresh Chronic	9.	22	0	0.00	14	0	0.00	8	0	0.00						
		Other-Lo Lim.	6.5	22	0	0.00	14	0	0.00	8	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	22	0	0.00	14	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: BICA0141

NPS Station ID: BICA0141
LAT/LON: 45.274198/-108.251892
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38070
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_117 /1037438
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE DEEP CREEK SE MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0141

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	1	880.	880.	880.	880.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	01/20/79-01/20/79	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/20/79-01/20/79	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/20/79-01/20/79	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	1	85.5	85.5	85.5	85.5	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	1	34.6	34.6	34.6	34.6	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	1	309.	309.	309.	309.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	1	48.	48.	48.	48.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	1	68.	68.	68.	68.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	1	544.	544.	544.	544.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	1	420.	420.	420.	420.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	1	716.	716.	716.	716.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	1	0.63	0.63	0.63	0.63	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0141

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00	1	1	1.00									
		Drinking Water	15.	1	1	1.00	1	1	1.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0142

NPS Station ID: BICA0142 LAT/LON: 45.275670/-108.018059 Agency: 11NPSWRD Date Created: 12/20/97
Location: BIGHORN LAKE 1/2 MILE WEST OF BLACK CANYON FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): BICA_EPA_6E
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE GRAPEVINE DOME MONTANA-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE APPROXIMATELY 1/2 MILE WEST FROM THE MOUTH OF BLACK CANYON. SAMPLES FOR THIS SITE WERE COLLECTED IN MAY; AUGUST; AND OCTOBER 1975. SAMPLES WERE ANALYZED FOR CHLOROPHYLL A AND SECCHI DEPTH. AN INVERSE RELATIONSHIP WAS OBSERVED BETWEEN PLANKTONIC ALGAL CHLOROPHYLL AND SECCHI DEPTH. THE RESULTS WERE PUBLISHED IN THE REPORT "EVALUATION OF WATER QUALITY AND RATE OF SEDIMENTATION IN BIGHORN LAKE; BIGHORN CANYON NATIONAL RECREATION AREA" BY G. FRED LEE AND R. ANNE JONES (COLORADO STATE UNIVERSITY; DECEMBER 1981). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0142

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/21/75-10/17/75	3	2.44	3.233	4.88	2.38	2.035	1.426	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/21/75-10/17/75	3	2.1	3.867	7.9	1.6	12.263	3.502	**	**	**	**

** - Less than 9 observations ## - 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: BICA0143

NPS Station ID: BICA0143
LAT/LON: 45.275726/-108.018142
Agency: 11NPSWRD
Date Created: 02/21/98
Location: BIGHORN LAKE NEAR BLACK CANYON
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): BICA_MFG_B
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE GRAPEVINE DOME MONTANA-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE NEAR BLACK CANYON. SAMPLES FOR THIS SITE WERE COLLECTED FROM 1970-1972 BY THE MONTANA FISH AND GAME DEPARTMENT. SAMPLES WERE ANALYZED FOR DISSOLVED OXYGEN IN 1970 AND TEMPERATURE IN 1970-1972. THE RESULTS WERE OBTAINED FROM NATURAL RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0143

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/21/70-10/20/72	500	15.6	14.082	23.3	3.3	24.827	4.983	5.6	11.1	17.8	19.4
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/18/70-05/16/72	4	23.95	23.375	27.8	17.8	17.109	4.136	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/18/70-11/03/70	23	5.6	5.957	8.8	2.6	3.043	1.745	3.96	4.6	7.6	8.72

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: BICA0143

			Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	23	2	0.09	15	2	0.13	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: BICA0144

NPS Station ID: BICA0144
LAT/LON: 45.277505/-107.909393
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129654
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_076 /7020705
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0144

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/29/78-10/29/78	1	9.5	9.5	9.5	9.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/29/78-10/29/78	1	500.	500.	500.	500.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/29/78-10/29/78	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/29/78-10/29/78	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/29/78-10/29/78	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/29/78-10/29/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/29/78-10/29/78	1	77.5	77.5	77.5	77.5	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/78-10/29/78	1	23.9	23.9	23.9	23.9	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/78-10/29/78	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/78-10/29/78	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/29/78-10/29/78	1	271.	271.	271.	271.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/29/78-10/29/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/29/78-10/29/78	1	22.	22.	22.	22.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/29/78-10/29/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/29/78-10/29/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/29/78-10/29/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/29/78-10/29/78	1	157.	157.	157.	157.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/78-10/29/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/29/78-10/29/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: BICA0144

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/29/78-10/29/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	10/29/78-10/29/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/29/78-10/29/78	1	243.	243.	243.	243.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/29/78-10/29/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/29/78-10/29/78	1	32.	32.	32.	32.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/29/78-10/29/78	1	111.	111.	111.	111.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/29/78-10/29/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/29/78-10/29/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/29/78-10/29/78	1	6300.	6300.	6300.	6300.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/29/78-10/29/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/29/78-10/29/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/29/78-10/29/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/29/78-10/29/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/29/78-10/29/78	1	3.96	3.96	3.96	3.96	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/29/78-10/29/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/29/78-10/29/78	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: BICA0144

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0145

NPS Station ID: BICA0145
LAT/LON: 45.277505/-108.178892
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38079
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_131 /1037447
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE BEAR COULEE SW MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0145

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	1	700.	700.	700.	700.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	01/20/79-01/20/79	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/20/79-01/20/79	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/20/79-01/20/79	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	1	86.	86.	86.	86.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	1	49.3	49.3	49.3	49.3	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	1	505.	505.	505.	505.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	1	64.	64.	64.	64.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	1	85.	85.	85.	85.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	1	687.	687.	687.	687.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	1	29.	29.	29.	29.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	1	322.	322.	322.	322.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	1	5.09	5.09	5.09	5.09	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: BICA0145

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00	1	1	1.00									
		Drinking Water	15.	1	1	1.00	1	1	1.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0146

NPS Station ID: BICA0146
LAT/LON: 45.277809/-107.778116
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129614
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_085 /7020645
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE MOUNTAIN POCKET CREEK MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0146

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/78-10/15/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/15/78-10/15/78	1	50000.	50000.	50000.	50000.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/15/78-10/15/78	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/15/78-10/15/78	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/15/78-10/15/78	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/15/78-10/15/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/78-10/15/78	1	12.3	12.3	12.3	12.3	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/15/78-10/15/78	1	46.	46.	46.	46.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/15/78-10/15/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/15/78-10/15/78	1	490.	490.	490.	490.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/78-10/15/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/15/78-10/15/78	1	21.	21.	21.	21.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/15/78-10/15/78	1	148.	148.	148.	148.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/15/78-10/15/78	1	24.	24.	24.	24.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/15/78-10/15/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/78-10/15/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/15/78-10/15/78	1	3600.	3600.	3600.	3600.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: BICA0146

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/78-10/15/78	1	63.	63.	63.	63.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/15/78-10/15/78	1	164.	164.	164.	164.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/15/78-10/15/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/15/78-10/15/78	1	359.	359.	359.	359.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/15/78-10/15/78	1	600.	600.	600.	600.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/15/78-10/15/78	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/15/78-10/15/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/15/78-10/15/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/15/78-10/15/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/15/78-10/15/78	1	58.8	58.8	58.8	58.8	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/15/78-10/15/78	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: BICA0146

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	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: BICA0147

NPS Station ID: BICA0147
LAT/LON: 45.278310/-107.911115
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129653
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_075 /7020703
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0147

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/78-10/29/78	2	7.25	7.25	10.	4.5	15.125	3.889	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/15/78-10/29/78	2	925.	925.	1200.	650.	151250.	388.909	**	**	**	**
00400	PH (STANDARD UNITS)	10/15/78-10/29/78	2	7.65	7.65	7.7	7.6	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/15/78-10/29/78	2	7.647	7.647	7.7	7.6	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/15/78-10/29/78	2	0.023	0.023	0.025	0.02	0.	0.004	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/15/78-10/29/78	2 ##	0.181	0.181	0.2	0.162	0.001	0.027	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/78-10/29/78	2	51.2	51.2	61.4	41.	208.08	14.425	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/15/78-10/29/78	2	31.55	31.55	56.7	6.4	1265.045	35.567	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/78-10/29/78	2	4.3	4.3	6.6	2.	10.58	3.253	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/15/78-10/29/78	2	165.5	165.5	277.	54.	24864.5	157.685	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/15/78-10/29/78	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/15/78-10/29/78	2	102.5	102.5	156.	49.	5724.5	75.66	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/15/78-10/29/78	2 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/78-10/29/78	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/15/78-10/29/78	2	8.5	8.5	10.	7.	4.5	2.121	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/15/78-10/29/78	2	558.	558.	1035.	81.	455058.	674.58	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/15/78-10/29/78	2	409.	409.	804.	14.	312050.	558.614	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/15/78-10/29/78	2 ##	3.	3.	4.	2.	2.	1.414	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/15/78-10/29/78	2 ##	7.5	7.5	13.	2.	60.5	7.778	**	**	**	**

** - Less than 9 observations ## - 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: BICA0147

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/78-10/29/78	2 ##	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/15/78-10/29/78	2	1130.5	1130.5	1349.	912.	95484.5	309.006	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/15/78-10/29/78	2 ##	4.	4.	6.	2.	8.	2.828	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/78-10/29/78	2	37.	37.	41.	33.	32.	5.657	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/15/78-10/29/78	2	454.	454.	839.	69.	296450.	544.472	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/15/78-10/29/78	2 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/15/78-10/29/78	2	38.	38.	64.	12.	1352.	36.77	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/15/78-10/29/78	2	5800.	5800.	8700.	2900.	16820000.	4101.219	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/15/78-10/29/78	2	6.	6.	7.	5.	2.	1.414	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/15/78-10/29/78	2 ##	3.5	3.5	6.	1.	12.5	3.536	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/15/78-10/29/78	2 ##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/15/78-10/29/78	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/15/78-10/29/78	2	10.93	10.93	17.28	4.58	80.645	8.98	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/15/78-10/29/78	2 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/15/78-10/29/78	2 ##	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: BICA0147

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	2	0	0.00	2	0	0.00									
		Other-Lo Lim.	6.5	2	0	0.00	2	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	2	0	0.00	2	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	2	0	0.00	2	0	0.00									
		Drinking Water	4.	2	0	0.00	2	0	0.00									
01030	CHROMIUM, DISSOLVED	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									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	2	0	0.00	2	0	0.00									
		Drinking Water	5000.	2	0	0.00	2	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	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: BICA0148

NPS Station ID: BICA0148
LAT/LON: 45.278892/-107.770005
Agency: 21MTHDWQ
Date Created: 10/12/85
Location: SOAP CREEK JUST ABOVE POND DISCHARGE
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 2267SO02
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10080015003505.99
RF3 Mile Point: 7.70
Distance from RF3: 0.09
On/Off RF3:
Description:
COMPLIANCE MONITORING

Parameter Inventory for Station: BICA0148

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	03/02/84-03/02/84	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/02/84-03/02/84	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/02/84-03/02/84	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00745	SULFIDE, TOTAL (MG/L AS S)	03/02/84-03/02/84	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: BICA0148

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	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: BICA0149

NPS Station ID: BICA0149
LAT/LON: 45.282503/-107.775005
Agency: 21MTHDWQ
Date Created: 10/12/85
Location: SOAP CREEK 200 YDS BELOW POND DISCHARGE
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 2267SO03
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10080015061900.00
RF3 Mile Point: 0.43
Distance from RF3: 0.11
On/Off RF3:
Description:
COMPLIANCE MONITORING

Parameter Inventory for Station: BICA0149

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	03/02/84-03/02/84	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/02/84-03/02/84	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/02/84-03/02/84	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00745	SULFIDE, TOTAL (MG/L AS S)	03/02/84-03/02/84	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: BICA0149

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	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: BICA0150

NPS Station ID: BICA0150
LAT/LON: 45.282503/-107.858115
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129622
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_070 /7020660
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE MOUNTAIN POCKET CREEK MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0150

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/78-10/15/78	1	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/15/78-10/15/78	1	700.	700.	700.	700.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/15/78-10/15/78	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/15/78-10/15/78	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/15/78-10/15/78	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/15/78-10/15/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/78-10/15/78	1	42.1	42.1	42.1	42.1	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/15/78-10/15/78	1	47.7	47.7	47.7	47.7	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/78-10/15/78	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/15/78-10/15/78	1	113.	113.	113.	113.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/15/78-10/15/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/15/78-10/15/78	1	83.	83.	83.	83.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/78-10/15/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/15/78-10/15/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/15/78-10/15/78	1	51.	51.	51.	51.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/15/78-10/15/78	1	62.	62.	62.	62.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/15/78-10/15/78	1 ##	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

Parameter Inventory for Station: BICA0150

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/78-10/15/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/15/78-10/15/78	1	781.	781.	781.	781.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/78-10/15/78	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/15/78-10/15/78	1	55.	55.	55.	55.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/15/78-10/15/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/15/78-10/15/78	1	27.	27.	27.	27.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/15/78-10/15/78	1	7400.	7400.	7400.	7400.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/15/78-10/15/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/15/78-10/15/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/15/78-10/15/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/15/78-10/15/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/15/78-10/15/78	1	9.94	9.94	9.94	9.94	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/15/78-10/15/78	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: BICA0150

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0151

NPS Station ID: BICA0151
LAT/LON: 45.283309/-108.216892
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38073
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_130 /1037441
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE BEAR COULEE SW MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0151

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	1	625.	625.	625.	625.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	01/20/79-01/20/79	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/20/79-01/20/79	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/20/79-01/20/79	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	1	87.2	87.2	87.2	87.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	1	208.	208.	208.	208.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	1	67.	67.	67.	67.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	1	122.	122.	122.	122.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	1	766.	766.	766.	766.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	1	29.	29.	29.	29.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	1	171.	171.	171.	171.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	1	0.74	0.74	0.74	0.74	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0151

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00	1	1	1.00									
		Drinking Water	15.	1	1	1.00	1	1	1.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0152

NPS Station ID: BICA0152 LAT/LON: 45.284920/-107.963920 Agency: 11NPSWRD Date Created: 02/07/98
Location: SITE 19 AT A SPRING SOUTHWEST OF YELLOWTAIL DAM FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BICA_USGS_SPR19
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. SITE NUMBER 19 IS AT A SPRING LOCATED APPROXIMATELY 1.5 MILES SOUTHWEST OF YELLOWTAIL DAM. SAMPLES FROM THIS SITE WERE COLLECTED ON DECEMBER 15 1967 BY THE U.S. GEOLOGICAL SURVEY AND APRIL 8 1970 BY THE MONTANA BUREAU OF MINES AND GEOLOGY. THE RESULTS ARE PUBLISHED IN THE USGS-WRD ADMINISTRATIVE REPORT "WATER-SUPPLY POSSIBILITIES FROM SPRINGS FOR PRETTY EAGLE AND OK-A-BEH SITES; BIGHORN CANYON NATIONAL RECREATION AREA; MONTANA" (MAY 1970) BY R. D. FELTIS. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0152

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/15/67-04/08/70	2	46.	46.	48.	44.	8.	2.828	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	12/15/67-12/15/67	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/15/67-04/08/70	2	496.5	496.5	500.	493.	24.5	4.95	**	**	**	**
00400	PH (STANDARD UNITS)	12/15/67-04/08/70	2	7.9	7.9	8.1	7.7	0.08	0.283	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/15/67-04/08/70	2	7.855	7.855	8.1	7.7	0.084	0.29	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/15/67-04/08/70	2	0.014	0.014	0.02	0.008	0.	0.008	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/15/67-04/08/70	2	261.5	261.5	267.	256.	60.5	7.778	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	12/15/67-04/08/70	2	318.5	318.5	325.	312.	84.5	9.192	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	12/15/67-04/08/70	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/15/67-04/08/70	2	266.5	266.5	267.	266.	0.5	0.707	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	12/15/67-04/08/70	2	10.5	10.5	11.	10.	0.5	0.707	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/15/67-04/08/70	2	64.5	64.5	65.	64.	0.5	0.707	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/15/67-04/08/70	2	27.	27.	28.	26.	2.	1.414	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/15/67-04/08/70	2	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	12/15/67-04/08/70	2	0.03	0.03	0.06	0.	0.002	0.042	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/15/67-04/08/70	2	0.75	0.75	0.8	0.7	0.005	0.071	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/15/67-04/08/70	2	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/15/67-04/08/70	2	15.	15.	16.	14.	2.	1.414	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/15/67-04/08/70	2	0.15	0.15	0.3	0.	0.045	0.212	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	12/15/67-04/08/70	2	8.85	8.85	12.	5.7	19.845	4.455	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	12/15/67-12/15/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/15/67-12/15/67	1	285.	285.	285.	285.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: BICA0152

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	12/15/67-04/08/70	2	281.	281.	284.	278.	18.	4.243	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	12/15/67-04/08/70	2	3.7	3.7	3.7	3.7	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: BICA0152

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	2	0	0.00	2	0	0.00									
		Other-Lo Lim.	6.5	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	2	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	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									

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

Station Inventory for Station: BICA0153

NPS Station ID: BICA0153 LAT/LON: 45.287282/-107.974560 Agency: 11NPSWRD Date Created: 02/07/98
Location: SITE 9 AT A SPRING SOUTHWEST OF YELLOWTAIL DAM FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BICA_USGS_SPR9
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. SITE NUMBER 9 IS AT A SPRING LOCATED APPROXIMATELY 1.5 MILES SOUTHWEST OF YELLOWTAIL DAM. SAMPLES FROM THIS SITE WERE COLLECTED ON DECEMBER 15 1967 BY THE U.S. GEOLOGICAL SURVEY AND APRIL 8 1970 BY THE MONTANA BUREAU OF MINES AND GEOLOGY. THE RESULTS ARE PUBLISHED IN THE USGS-WRD ADMINISTRATIVE REPORT "WATER-SUPPLY POSSIBILITIES FROM SPRINGS FOR PRETTY EAGLE AND OK-A-BEH SITES; BIGHORN CANYON NATIONAL RECREATION AREA; MONTANA" (MAY 1970) BY R. D. FELTIS. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0153

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/15/67-04/08/70	2	45.	45.	46.	44.	2.	1.414	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	12/15/67-12/15/67	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/15/67-04/08/70	2	503.	503.	511.	495.	128.	11.314	**	**	**	**
00400	PH (STANDARD UNITS)	12/15/67-04/08/70	2	8.25	8.25	8.3	8.2	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/15/67-04/08/70	2	8.247	8.247	8.3	8.2	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/15/67-04/08/70	2	0.006	0.006	0.006	0.005	0.	0.001	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/15/67-04/08/70	2	262.5	262.5	264.	261.	4.5	2.121	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	12/15/67-04/08/70	2	310.	310.	318.	302.	128.	11.314	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	12/15/67-04/08/70	2	5.	5.	10.	0.	50.	7.071	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/15/67-04/08/70	2	274.5	274.5	285.	264.	220.5	14.849	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	12/15/67-04/08/70	2	15.	15.	25.	5.	200.	14.142	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/15/67-04/08/70	2	55.5	55.5	60.	51.	40.5	6.364	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/15/67-04/08/70	2	34.	34.	35.	33.	2.	1.414	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/15/67-04/08/70	2	2.2	2.2	2.3	2.1	0.02	0.141	**	**	**	**
00931	SODIUM ADSORPTION RATIO	12/15/67-04/08/70	2	0.03	0.03	0.06	0.	0.002	0.042	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/15/67-04/08/70	2	1.25	1.25	1.6	0.9	0.245	0.495	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/15/67-04/08/70	2	4.5	4.5	7.	2.	12.5	3.536	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/15/67-04/08/70	2	20.	20.	20.	20.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/15/67-04/08/70	2	0.3	0.3	0.5	0.1	0.08	0.283	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	12/15/67-04/08/70	2	8.85	8.85	12.	5.7	19.845	4.455	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	12/15/67-12/15/67	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/15/67-12/15/67	1	291.	291.	291.	291.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: BICA0153

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	12/15/67-04/08/70	2	286.	286.	290.	282.	32.	5.657	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	12/15/67-04/08/70	2	1.85	1.85	2.1	1.6	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: BICA0153

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	2	0	0.00	2	0	0.00									
		Other-Lo Lim.	6.5	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	2	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	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									

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

Station Inventory for Station: BICA0154

NPS Station ID: BICA0154
LAT/LON: 45.288115/-108.023893
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38089
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_133 /1037457
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE GRAPEVINE DOME MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0154

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	1	1425.	1425.	1425.	1425.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	01/20/79-01/20/79	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/20/79-01/20/79	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/20/79-01/20/79	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	1	78.6	78.6	78.6	78.6	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	1	29.5	29.5	29.5	29.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	1	129.	129.	129.	129.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	1	33.	33.	33.	33.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	1	246.	246.	246.	246.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	1	633.	633.	633.	633.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	1	49.	49.	49.	49.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	1	133.	133.	133.	133.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	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: BICA0154

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00	1	1	1.00									
		Drinking Water	15.	1	1	1.00	1	1	1.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0155

NPS Station ID: BICA0155
LAT/LON: 45.288309/-108.157503
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38080
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_132 /1037448
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE BEAR COULEE SW MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0155

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	1	580.	580.	580.	580.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	01/20/79-01/20/79	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/20/79-01/20/79	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/20/79-01/20/79	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	1	89.9	89.9	89.9	89.9	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	1	51.4	51.4	51.4	51.4	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	1	365.	365.	365.	365.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	1	65.	65.	65.	65.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	1	85.	85.	85.	85.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	1	806.	806.	806.	806.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	1	463.	463.	463.	463.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	1	0.52	0.52	0.52	0.52	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0155

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00	1	1	1.00									
		Drinking Water	15.	1	1	1.00	1	1	1.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0156

NPS Station ID: BICA0156
LAT/LON: 45.289392/-108.157198
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38081
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_127 /1037449
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE BEAR COULEE SW MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0156

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	1	670.	670.	670.	670.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	01/20/79-01/20/79	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/20/79-01/20/79	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/20/79-01/20/79	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	1	84.7	84.7	84.7	84.7	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	1	48.9	48.9	48.9	48.9	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	1	354.	354.	354.	354.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	1	46.	46.	46.	46.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	1	65.	65.	65.	65.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	1	260.	260.	260.	260.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	1	1.52	1.52	1.52	1.52	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0156

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	0 &	0	0.00												
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0157

NPS Station ID: BICA0157
LAT/LON: 45.290003/-107.778893
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129615
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_006 /7020647
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE MOUNTAIN POCKET CREEK MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0157

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/78-10/15/78	1	11.5	11.5	11.5	11.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/15/78-10/15/78	1	2300.	2300.	2300.	2300.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/15/78-10/15/78	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/15/78-10/15/78	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/15/78-10/15/78	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/15/78-10/15/78	1	0.372	0.372	0.372	0.372	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/15/78-10/15/78	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/78-10/15/78	1	3.8	3.8	3.8	3.8	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/78-10/15/78	1	3.8	3.8	3.8	3.8	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/15/78-10/15/78	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/15/78-10/15/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/15/78-10/15/78	1	1118.	1118.	1118.	1118.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/78-10/15/78	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/15/78-10/15/78	1	21.	21.	21.	21.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/15/78-10/15/78	1	266.	266.	266.	266.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/15/78-10/15/78	1	32.	32.	32.	32.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/15/78-10/15/78	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: BICA0157

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/78-10/15/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/15/78-10/15/78	1	187.	187.	187.	187.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/78-10/15/78	1	27.	27.	27.	27.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/15/78-10/15/78	1	330.	330.	330.	330.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/15/78-10/15/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/15/78-10/15/78	1	123.	123.	123.	123.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/15/78-10/15/78	1	5400.	5400.	5400.	5400.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/15/78-10/15/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/15/78-10/15/78	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/15/78-10/15/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/15/78-10/15/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/15/78-10/15/78	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/15/78-10/15/78	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: BICA0157

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	1	1.00	1	1	1.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0158

NPS Station ID: BICA0158 LAT/LON: 45.291281/-107.957865 Agency: 11NPSWRD Date Created: 02/07/98
Location: SITE 18 AT A SPRING DUE SOUTH OF YELLOWTAIL DAM FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BICA_BM_SPR18
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. SITE NUMBER 18 IS AT A SPRING LOCATED APPROXIMATELY ONE MILE DUE SOUTH OF YELLOWTAIL DAM. SAMPLES FROM THIS SITE WERE COLLECTED ON APRIL 8 1970 BY THE MONTANA BUREAU OF MINES AND GEOLOGY. THE RESULTS ARE PUBLISHED IN THE USGS-WRD ADMINISTRATIVE REPORT "WATER-SUPPLY POSSIBILITIES FROM SPRINGS FOR PRETTY EAGLE AND OK-A-BEH SITES; BIGHORN CANYON NATIONAL RECREATION AREA; MONTANA" (MAY 1970) BY R. D. FELTIS. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0158

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/08/70-04/08/70	1	46.	46.	46.	46.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/08/70-04/08/70	1	800.	800.	800.	800.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	04/08/70-04/08/70	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/08/70-04/08/70	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/08/70-04/08/70	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/08/70-04/08/70	1	263.	263.	263.	263.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	04/08/70-04/08/70	1	321.	321.	321.	321.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	04/08/70-04/08/70	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/08/70-04/08/70	1	263.	263.	263.	263.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	04/08/70-04/08/70	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/08/70-04/08/70	1	64.	64.	64.	64.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/08/70-04/08/70	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	04/08/70-04/08/70	1	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	04/08/70-04/08/70	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/08/70-04/08/70	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/08/70-04/08/70	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/08/70-04/08/70	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/08/70-04/08/70	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	04/08/70-04/08/70	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/08/70-04/08/70	1	284.	284.	284.	284.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	04/08/70-04/08/70	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 time series plot

EPA Water Quality Criteria Analysis for Station: BICA0158

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	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									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	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: BICA0159

NPS Station ID: BICA0159 LAT/LON: 45.291616/-107.962893 Agency: 11NPSWRD Date Created: 02/07/98
Location: SITE 15 AT A SPRING SOUTHWEST OF YELLOWTAIL DAM FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BICA_BM_SPR15
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. SITE NUMBER 15 IS AT A SPRING LOCATED APPROXIMATELY ONE MILE SOUTHWEST OF YELLOWTAIL DAM. SAMPLES FROM THIS SITE WERE COLLECTED ON APRIL 8 1970 BY THE MONTANA BUREAU OF MINES AND GEOLOGY. THE RESULTS ARE PUBLISHED IN THE USGS-WRD ADMINISTRATIVE REPORT "WATER-SUPPLY POSSIBILITIES FROM SPRINGS FOR PRETTY EAGLE AND OK-A-BEH SITES; BIGHORN CANYON NATIONAL RECREATION AREA; MONTANA" (MAY 1970) BY R. D. FELTIS. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0159

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/08/70-04/08/70	1	48.	48.	48.	48.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/08/70-04/08/70	1	598.	598.	598.	598.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	04/08/70-04/08/70	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/08/70-04/08/70	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/08/70-04/08/70	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/08/70-04/08/70	1	258.	258.	258.	258.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	04/08/70-04/08/70	1	315.	315.	315.	315.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	04/08/70-04/08/70	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/08/70-04/08/70	1	258.	258.	258.	258.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	04/08/70-04/08/70	1	60.	60.	60.	60.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/08/70-04/08/70	1	68.	68.	68.	68.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/08/70-04/08/70	1	36.	36.	36.	36.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	04/08/70-04/08/70	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	04/08/70-04/08/70	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/08/70-04/08/70	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/08/70-04/08/70	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/08/70-04/08/70	1	72.	72.	72.	72.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/08/70-04/08/70	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	04/08/70-04/08/70	1	5.7	5.7	5.7	5.7	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/08/70-04/08/70	1	348.	348.	348.	348.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	04/08/70-04/08/70	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

EPA Water Quality Criteria Analysis for Station: BICA0159

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	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									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	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: BICA0160

NPS Station ID: BICA0160
LAT/LON: 45.293615/-107.868615
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129623
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_089 /7020662
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE MOUNTAIN POCKET CREEK MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0160

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/78-10/15/78	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/15/78-10/15/78	1	800.	800.	800.	800.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/15/78-10/15/78	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/15/78-10/15/78	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/15/78-10/15/78	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/15/78-10/15/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/78-10/15/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/15/78-10/15/78	1	88.6	88.6	88.6	88.6	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/78-10/15/78	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/15/78-10/15/78	1	169.	169.	169.	169.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/15/78-10/15/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/15/78-10/15/78	1	238.	238.	238.	238.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/78-10/15/78	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/15/78-10/15/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/15/78-10/15/78	1	86.	86.	86.	86.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/15/78-10/15/78	1	49.	49.	49.	49.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/15/78-10/15/78	1 ##	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

Parameter Inventory for Station: BICA0160

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/78-10/15/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/15/78-10/15/78	1	963.	963.	963.	963.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/15/78-10/15/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/78-10/15/78	1	29.	29.	29.	29.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/15/78-10/15/78	1	90.	90.	90.	90.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/15/78-10/15/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/15/78-10/15/78	1	62.	62.	62.	62.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/15/78-10/15/78	1	10800.	10800.	10800.	10800.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/15/78-10/15/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/15/78-10/15/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/15/78-10/15/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/15/78-10/15/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/15/78-10/15/78	1	18.8	18.8	18.8	18.8	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/15/78-10/15/78	1	14.	14.	14.	14.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/15/78-10/15/78	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: BICA0160

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	1	1.00	1	1	1.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0161

NPS Station ID: BICA0161
LAT/LON: 45.293892/-107.921392
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129652
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_055 /7020701
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0161

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/29/78-10/29/78	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/29/78-10/29/78	1	700.	700.	700.	700.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/29/78-10/29/78	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/29/78-10/29/78	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/29/78-10/29/78	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/29/78-10/29/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/29/78-10/29/78	1	57.5	57.5	57.5	57.5	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/78-10/29/78	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/78-10/29/78	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/78-10/29/78	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/29/78-10/29/78	1	203.	203.	203.	203.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/29/78-10/29/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/29/78-10/29/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/29/78-10/29/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/29/78-10/29/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/29/78-10/29/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/29/78-10/29/78	1	29.	29.	29.	29.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/78-10/29/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/29/78-10/29/78	1 ##	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

Parameter Inventory for Station: BICA0161

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/29/78-10/29/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	10/29/78-10/29/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/29/78-10/29/78	1	275.	275.	275.	275.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/29/78-10/29/78	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/29/78-10/29/78	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/29/78-10/29/78	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/29/78-10/29/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/29/78-10/29/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/29/78-10/29/78	1	5600.	5600.	5600.	5600.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/29/78-10/29/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/29/78-10/29/78	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/29/78-10/29/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/29/78-10/29/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/29/78-10/29/78	1	3.56	3.56	3.56	3.56	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/29/78-10/29/78	1	11.	11.	11.	11.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/29/78-10/29/78	1	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: BICA0161

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	1	1.00	1	1	1.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0162

NPS Station ID: BICA0162 LAT/LON: 45.295449/-107.957170 Agency: 11NPSWRD Date Created: 02/07/98
Location: SITE 17 AT A SPRING DUE SOUTH OF YELLOWTAIL DAM FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BICA_BM_SPR17
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. SITE NUMBER 17 IS AT A SPRING LOCATED APPROXIMATELY ONE MILE DUE SOUTH OF YELLOWTAIL DAM. SAMPLES FROM THIS SITE WERE COLLECTED ON APRIL 8 1970 BY THE MONTANA BUREAU OF MINES AND GEOLOGY. THE RESULTS ARE PUBLISHED IN THE USGS-WRD ADMINISTRATIVE REPORT "WATER-SUPPLY POSSIBILITIES FROM SPRINGS FOR PRETTY EAGLE AND OK-A-BEH SITES; BIGHORN CANYON NATIONAL RECREATION AREA; MONTANA" (MAY 1970) BY R. D. FELTIS. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0162

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/08/70-04/08/70	1	46.	46.	46.	46.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/08/70-04/08/70	1	480.	480.	480.	480.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	04/08/70-04/08/70	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/08/70-04/08/70	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/08/70-04/08/70	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/08/70-04/08/70	1	230.	230.	230.	230.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	04/08/70-04/08/70	1	281.	281.	281.	281.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	04/08/70-04/08/70	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/08/70-04/08/70	1	230.	230.	230.	230.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	04/08/70-04/08/70	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/08/70-04/08/70	1	51.	51.	51.	51.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/08/70-04/08/70	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	04/08/70-04/08/70	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	04/08/70-04/08/70	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/08/70-04/08/70	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/08/70-04/08/70	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/08/70-04/08/70	1	33.	33.	33.	33.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/08/70-04/08/70	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	04/08/70-04/08/70	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/08/70-04/08/70	1	266.	266.	266.	266.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	04/08/70-04/08/70	1	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: BICA0162

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	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									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	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: BICA0163

NPS Station ID: BICA0163
LAT/LON: 45.295809/-108.027198
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38088
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_134 /1037456
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE GRAPEVINE DOME MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0163

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	1	1350.	1350.	1350.	1350.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	01/20/79-01/20/79	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/20/79-01/20/79	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/20/79-01/20/79	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	1	78.	78.	78.	78.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	1	29.7	29.7	29.7	29.7	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	1	229.	229.	229.	229.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	1	219.	219.	219.	219.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	1	558.	558.	558.	558.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	1	55.	55.	55.	55.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	1	55.	55.	55.	55.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	1	0.74	0.74	0.74	0.74	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0163

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00	1	1	1.00									
		Drinking Water	15.	1	1	1.00	1	1	1.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0164

NPS Station ID: BICA0164
LAT/LON: 45.296949/-107.775005
Agency: 21MTHDWQ
Date Created: 10/12/85
Location: SOAP CREEK 400 YDS BELOW POND DISCHARGE
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 2267SO04
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10080015061900.00
RF3 Mile Point: 0.38
Distance from RF3: 0.16
On/Off RF3:
Description:
COMPLIANCE MONITORING

Parameter Inventory for Station: BICA0164

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	03/02/84-03/02/84	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/02/84-03/02/84	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/02/84-03/02/84	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00745	SULFIDE, TOTAL (MG/L AS S)	03/02/84-03/02/84	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: BICA0164

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	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: BICA0165

NPS Station ID: BICA0165 LAT/LON: 45.298449/-107.967921 Agency: 11NPSWRD Date Created: 02/07/98
Location: SITE 14 AT A SPRING SOUTHWEST OF YELLOWTAIL DAM FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BICA_USGS_SPR14
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. SITE NUMBER 14 IS AT A SPRING LOCATED APPROXIMATELY ONE MILE SOUTHWEST OF YELLOWTAIL DAM. SAMPLES FROM THIS SITE WERE COLLECTED ON DECEMBER 15 1967 BY THE U.S. GEOLOGICAL SURVEY AND APRIL 8 1970 BY THE MONTANA BUREAU OF MINES AND GEOLOGY. THE RESULTS ARE PUBLISHED IN THE USGS-WRD ADMINISTRATIVE REPORT "WATER-SUPPLY POSSIBILITIES FROM SPRINGS FOR PRETTY EAGLE AND OK-A-BEH SITES; BIGHORN CANYON NATIONAL RECREATION AREA; MONTANA" (MAY 1970) BY R. D. FELTIS. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0165

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/15/67-04/08/70	2	46.	46.	48.	44.	8.	2.828	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	12/15/67-12/15/67	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/15/67-04/08/70	2	502.5	502.5	510.	495.	112.5	10.607	**	**	**	**
00400	PH (STANDARD UNITS)	12/15/67-04/08/70	2	8.15	8.15	8.2	8.1	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/15/67-04/08/70	2	8.147	8.147	8.2	8.1	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/15/67-04/08/70	2	0.007	0.007	0.008	0.006	0.	0.001	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/15/67-04/08/70	2	247.	247.	248.	246.	2.	1.414	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	12/15/67-04/08/70	2	301.5	301.5	303.	300.	4.5	2.121	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	12/15/67-04/08/70	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/15/67-04/08/70	2	259.5	259.5	274.	245.	420.5	20.506	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	12/15/67-04/08/70	2	22.	22.	26.	18.	32.	5.657	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/15/67-04/08/70	2	56.	56.	57.	55.	2.	1.414	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/15/67-04/08/70	2	31.5	31.5	32.	31.	0.5	0.707	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/15/67-04/08/70	2	2.35	2.35	2.4	2.3	0.005	0.071	**	**	**	**
00931	SODIUM ADSORPTION RATIO	12/15/67-04/08/70	2	0.03	0.03	0.06	0.	0.002	0.042	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/15/67-04/08/70	2	1.1	1.1	1.3	0.9	0.08	0.283	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/15/67-04/08/70	2	2.5	2.5	3.	2.	0.5	0.707	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/15/67-04/08/70	2	28.5	28.5	32.	25.	24.5	4.95	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/15/67-04/08/70	2	0.3	0.3	0.5	0.1	0.08	0.283	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	12/15/67-04/08/70	2	9.65	9.65	15.	4.3	57.245	7.566	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	12/15/67-12/15/67	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/15/67-12/15/67	1	284.	284.	284.	284.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: BICA0165

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	12/15/67-04/08/70	2	282.5	282.5	286.	279.	24.5	4.95	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	12/15/67-04/08/70	2	2.05	2.05	2.2	1.9	0.045	0.212	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0165

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	2	0	0.00	2	0	0.00									
		Other-Lo Lim.	6.5	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	2	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	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									

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

Station Inventory for Station: BICA0166

NPS Station ID: BICA0166
LAT/LON: 45.299199/-107.818115
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129625
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_094 /7020666
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE MOUNTAIN POCKET CREEK MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0166

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/78-10/15/78	1	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/15/78-10/15/78	1	1000.	1000.	1000.	1000.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/15/78-10/15/78	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/15/78-10/15/78	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/15/78-10/15/78	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/15/78-10/15/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/78-10/15/78	1	58.2	58.2	58.2	58.2	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/15/78-10/15/78	1	99.2	99.2	99.2	99.2	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/78-10/15/78	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/15/78-10/15/78	1	109.	109.	109.	109.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/15/78-10/15/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/15/78-10/15/78	1	208.	208.	208.	208.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/78-10/15/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/15/78-10/15/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/15/78-10/15/78	1	97.	97.	97.	97.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/15/78-10/15/78	1	127.	127.	127.	127.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/15/78-10/15/78	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

Parameter Inventory for Station: BICA0166

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/78-10/15/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/15/78-10/15/78	1	820.	820.	820.	820.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/78-10/15/78	1	26.	26.	26.	26.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/15/78-10/15/78	1	93.	93.	93.	93.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/15/78-10/15/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/15/78-10/15/78	1	39.	39.	39.	39.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/15/78-10/15/78	1	8500.	8500.	8500.	8500.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/15/78-10/15/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/15/78-10/15/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/15/78-10/15/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/15/78-10/15/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/15/78-10/15/78	1	14.9	14.9	14.9	14.9	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/15/78-10/15/78	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: BICA0166

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0167

NPS Station ID: BICA0167
LAT/LON: 45.299392/-107.884198
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129655
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_088 /7020707
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0167

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/29/78-10/29/78	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/29/78-10/29/78	1	850.	850.	850.	850.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/29/78-10/29/78	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/29/78-10/29/78	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/29/78-10/29/78	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/29/78-10/29/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/78-10/29/78	1	37.9	37.9	37.9	37.9	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/78-10/29/78	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/78-10/29/78	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/29/78-10/29/78	1	105.	105.	105.	105.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/29/78-10/29/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/29/78-10/29/78	1	63.	63.	63.	63.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/29/78-10/29/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/29/78-10/29/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/29/78-10/29/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/29/78-10/29/78	1	222.	222.	222.	222.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/78-10/29/78	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/29/78-10/29/78	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/29/78-10/29/78	1 ##	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

Parameter Inventory for Station: BICA0167

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	10/29/78-10/29/78	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/29/78-10/29/78	1	1561.	1561.	1561.	1561.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/29/78-10/29/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/29/78-10/29/78	1	28.	28.	28.	28.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/29/78-10/29/78	1	123.	123.	123.	123.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/29/78-10/29/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/29/78-10/29/78	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/29/78-10/29/78	1	7200.	7200.	7200.	7200.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/29/78-10/29/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/29/78-10/29/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/29/78-10/29/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/29/78-10/29/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/29/78-10/29/78	1	6.2	6.2	6.2	6.2	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/29/78-10/29/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/29/78-10/29/78	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: BICA0167

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0168

NPS Station ID: BICA0168
LAT/LON: 45.299698/-107.784698
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129606
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_093 /7020635
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE MOUNTAIN POCKET CREEK MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0168

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/14/78-10/14/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/14/78-10/14/78	1	800.	800.	800.	800.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/14/78-10/14/78	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/14/78-10/14/78	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/14/78-10/14/78	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/14/78-10/14/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/14/78-10/14/78	1	97.8	97.8	97.8	97.8	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/14/78-10/14/78	1	4.3	4.3	4.3	4.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/14/78-10/14/78	1	41.1	41.1	41.1	41.1	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/14/78-10/14/78	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/14/78-10/14/78	1	130.	130.	130.	130.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/14/78-10/14/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/14/78-10/14/78	1	106.	106.	106.	106.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/14/78-10/14/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/14/78-10/14/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/14/78-10/14/78	1	27.	27.	27.	27.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/14/78-10/14/78	1	73.	73.	73.	73.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/14/78-10/14/78	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/14/78-10/14/78	1 ##	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

Parameter Inventory for Station: BICA0168

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/14/78-10/14/78	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	10/14/78-10/14/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/14/78-10/14/78	1	681.	681.	681.	681.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/14/78-10/14/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/14/78-10/14/78	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/14/78-10/14/78	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/14/78-10/14/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/14/78-10/14/78	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/14/78-10/14/78	1	6200.	6200.	6200.	6200.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/14/78-10/14/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/14/78-10/14/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/14/78-10/14/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/14/78-10/14/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/14/78-10/14/78	1	11.36	11.36	11.36	11.36	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/14/78-10/14/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/14/78-10/14/78	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: BICA0168

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0169

NPS Station ID: BICA0169 LAT/LON: 45.302226/-107.970393 Agency: 11NPSWRD Date Created: 02/07/98
Location: BIGHORN LAKE 1 MILE SOUTHWEST OF YELLOWTAIL DAM FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /RESERV/TYPA/AMBNT STORET Station ID(s): BICA_USGS_BIGLA
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE APPROXIMATELY ONE MILE SOUTHWEST OF YELLOWTAIL DAM. SAMPLES FOR THIS SITE WERE COLLECTED IN 1968 AND 1969 BY THE U.S. GEOLOGICAL SURVEY. THE RESULTS ARE PUBLISHED IN THE USGS-WRD ADMINISTRATIVE REPORT "WATER-SUPPLY POSSIBILITIES FROM SPRINGS FOR PRETTY EAGLE AND OK-A-BEH SITES; BIGHORN CANYON NATIONAL RECREATION AREA; MONTANA" (MAY 1970) BY R. D. FELTIS. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0169

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	03/21/69-06/16/69	2	48.	48.	64.	32.	512.	22.627	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	07/29/68-06/16/69	3	4.	5.667	10.	3.	14.333	3.786	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/29/68-06/16/69	3	618.	619.	827.	412.	43057.	207.502	**	**	**	**
00400	PH (STANDARD UNITS)	07/29/68-06/16/69	3	7.7	7.833	8.2	7.6	0.103	0.321	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/29/68-06/16/69	3	7.7	7.766	8.2	7.6	0.11	0.332	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/68-06/16/69	3	0.02	0.017	0.025	0.006	0.	0.01	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/29/68-06/16/69	3	158.	149.333	169.	121.	632.333	25.146	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	07/29/68-06/16/69	3	192.	182.	206.	148.	916.	30.265	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	07/29/68-06/16/69	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/29/68-06/16/69	3	201.	219.333	272.	185.	2144.333	46.307	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	07/29/68-06/16/69	3	79.	70.	104.	27.	1543.	39.281	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/29/68-06/16/69	3	52.	55.333	68.	46.	129.333	11.372	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/29/68-06/16/69	3	17.	19.667	25.	17.	21.333	4.619	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/29/68-06/16/69	3	56.	51.333	80.	18.	977.333	31.262	**	**	**	**
00931	SODIUM ADSORPTION RATIO	07/29/68-06/16/69	3	1.7	1.467	2.1	0.6	0.603	0.777	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/29/68-06/16/69	3	2.6	2.733	4.1	1.5	1.703	1.305	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/29/68-06/16/69	3	6.	6.667	12.	2.	25.333	5.033	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/29/68-06/16/69	3	178.	166.667	262.	60.	10297.333	101.476	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/29/68-06/16/69	3	0.3	0.367	0.5	0.3	0.013	0.115	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/29/68-06/16/69	3	6.6	6.667	6.9	6.5	0.043	0.208	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	07/29/68-06/16/69	3	0.09	0.073	0.1	0.03	0.001	0.038	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/29/68-06/16/69	3	405.	414.	578.	259.	25501.	159.69	**	**	**	**

** - Less than 9 observations ## - 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: BICA0169

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/29/68-06/16/69	3	392.	399.333	559.	247.	24376.333	156.129	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/29/68-06/16/69	3	0.4	0.467	1.	0.	0.253	0.503	**	**	**	**

** - 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: BICA0169

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	250.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	1	0.33	1	0	0.00	1	1	1.00	1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	3	0	0.00	1	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: BICA0170

NPS Station ID: BICA0170 LAT/LON: 45.302420/-107.973531 Agency: 11NPSWRD Date Created: 02/07/98
Location: SITE 1 AT A SPRING SOUTHWEST OF YELLOWTAIL DAM FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BICA_USGS_SPR1
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. SITE NUMBER 1 IS AT A SPRING LOCATED APPROXIMATELY ONE MILE SOUTHWEST OF YELLOWTAIL DAM. SAMPLES FROM THIS SITE WERE COLLECTED ON DECEMBER 15 1967 BY THE U.S. GEOLOGICAL SURVEY AND APRIL 8 1970 BY THE MONTANA BUREAU OF MINES AND GEOLOGY. THE RESULTS ARE PUBLISHED IN THE USGS-WRD ADMINISTRATIVE REPORT "WATER-SUPPLY POSSIBILITIES FROM SPRINGS FOR PRETTY EAGLE AND OK-A-BEH SITES; BIGHORN CANYON NATIONAL RECREATION AREA; MONTANA" (MAY 1970) BY R. D. FELTIS. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0170

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/15/67-04/08/70	2	49.5	49.5	51.	48.	4.5	2.121	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	12/15/67-12/15/67	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/15/67-04/08/70	2	523.5	523.5	535.	512.	264.5	16.263	**	**	**	**
00400	PH (STANDARD UNITS)	12/15/67-04/08/70	2	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/15/67-04/08/70	2	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/15/67-04/08/70	2	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/15/67-04/08/70	2	239.5	239.5	241.	238.	4.5	2.121	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	12/15/67-04/08/70	2	292.5	292.5	294.	291.	4.5	2.121	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	12/15/67-04/08/70	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/15/67-04/08/70	2	262.5	262.5	284.	241.	924.5	30.406	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	12/15/67-04/08/70	2	43.5	43.5	45.	42.	4.5	2.121	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/15/67-04/08/70	2	59.5	59.5	61.	58.	4.5	2.121	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/15/67-04/08/70	2	33.	33.	34.	32.	2.	1.414	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/15/67-04/08/70	2	2.25	2.25	2.3	2.2	0.005	0.071	**	**	**	**
00931	SODIUM ADSORPTION RATIO	12/15/67-04/08/70	2	0.03	0.03	0.06	0.	0.002	0.042	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/15/67-04/08/70	2	1.25	1.25	1.3	1.2	0.005	0.071	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/15/67-04/08/70	2	1.35	1.35	2.	0.7	0.845	0.919	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/15/67-04/08/70	2	48.	48.	54.	42.	72.	8.485	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/15/67-04/08/70	2	0.3	0.3	0.5	0.1	0.08	0.283	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	12/15/67-04/08/70	2	12.05	12.05	17.	7.1	49.005	7.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	12/15/67-12/15/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/15/67-12/15/67	1	311.	311.	311.	311.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: BICA0170

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	12/15/67-04/08/70	2	303.	303.	304.	302.	2.	1.414	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	12/15/67-04/08/70	2	2.05	2.05	2.1	2.	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: BICA0170

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	2	0	0.00	2	0	0.00									
		Other-Lo Lim.	6.5	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	2	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	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									

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

Station Inventory for Station: BICA0171

NPS Station ID: BICA0171
LAT/LON: 45.303892/-107.872810
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129624
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_087 /7020664
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE MOUNTAIN POCKET CREEK MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0171

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/17/78-10/17/78	1	10.5	10.5	10.5	10.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/17/78-10/17/78	1	800.	800.	800.	800.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/17/78-10/17/78	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/17/78-10/17/78	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/17/78-10/17/78	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/17/78-10/17/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/17/78-10/17/78	1	62.	62.	62.	62.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/17/78-10/17/78	1	77.9	77.9	77.9	77.9	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/17/78-10/17/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/17/78-10/17/78	1	140.	140.	140.	140.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/17/78-10/17/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/17/78-10/17/78	1	147.	147.	147.	147.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/17/78-10/17/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/17/78-10/17/78	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/17/78-10/17/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/17/78-10/17/78	1	83.	83.	83.	83.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/17/78-10/17/78	1	35.	35.	35.	35.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/17/78-10/17/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/17/78-10/17/78	1 ##	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

Parameter Inventory for Station: BICA0171

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	10/17/78-10/17/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/17/78-10/17/78	1	1054.	1054.	1054.	1054.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/17/78-10/17/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/17/78-10/17/78	1	26.	26.	26.	26.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/17/78-10/17/78	1	103.	103.	103.	103.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/17/78-10/17/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/17/78-10/17/78	1	41.	41.	41.	41.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/17/78-10/17/78	1	9200.	9200.	9200.	9200.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/17/78-10/17/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/17/78-10/17/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/17/78-10/17/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/17/78-10/17/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/17/78-10/17/78	1	15.24	15.24	15.24	15.24	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/17/78-10/17/78	1	13.	13.	13.	13.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/17/78-10/17/78	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: BICA0171

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0172

NPS Station ID: BICA0172
LAT/LON: 45.304448/-107.958615
Agency: 11EPALES
Date Created: 01/14/76
Location: YELLOWTAIL RESERVOIR
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 561407
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 999
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10080010015
RF1 Mile Point: 4.250
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 10080010009200.23
RF3 Mile Point: 2.15
Distance from RF3: 0.09
On/Off RF3:
Description:

Parameter Inventory for Station: BICA0172

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/75-10/17/75	24	17.35	13.7	22.1	1.5	57.107	7.557	2.6	5.15	21.05	21.85
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	05/22/75-10/17/75	24	100.	100.042	101.	97.	0.998	0.999	98.5	100.	101.	101.
00077	TRANSPARENCY, SECCHI DISC (INCHES)	05/22/75-10/17/75	3	240.	352.	600.	216.	46272.	215.109	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/22/75-10/17/75	24	540.	537.667	638.	469.	1325.797	36.411	491.5	511.	561.75	576.5
00300	OXYGEN, DISSOLVED MG/L	05/22/75-10/17/75	24	6.8	8.017	11.6	5.	4.99	2.234	5.4	6.6	10.55	11.5
00400	PH (STANDARD UNITS)	05/22/75-10/17/75	24	8.125	8.125	8.5	7.8	0.028	0.167	7.875	8.	8.2	8.375
00400	CONVERTED PH (STANDARD UNITS)	05/22/75-10/17/75	24	8.124	8.095	8.5	7.8	0.029	0.17	7.875	8.	8.2	8.375
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/22/75-10/17/75	24	0.008	0.008	0.016	0.003	0.	0.003	0.004	0.006	0.01	0.013
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/22/75-10/17/75	24	144.	149.75	196.	112.	772.804	27.799	114.	117.	175.75	185.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/22/75-10/17/75	24	0.02	0.025	0.09	0.01	0.001	0.023	0.01	0.01	0.028	0.075
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/22/75-10/17/75	24	0.2	0.192	0.6	0.1	0.014	0.118	0.1	0.1	0.275	0.3
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/22/75-10/17/75	24	0.305	0.335	0.58	0.22	0.009	0.094	0.22	0.29	0.403	0.48
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/75-10/17/75	24	0.021	0.023	0.041	0.012	0.	0.007	0.015	0.018	0.027	0.037
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/22/75-10/17/75	24	0.016	0.016	0.031	0.006	0.	0.006	0.011	0.011	0.019	0.027
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	05/22/75-10/17/75	3	2.1	2.133	2.7	1.6	0.303	0.551	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	05/22/75-10/17/75	3	999.	999.	999.	999.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0172

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	24	0	0.00	15	0	0.00	9	0	0.00						
00400	PH	Fresh Chronic	9.	24	0	0.00	15	0	0.00	9	0	0.00						
		Other-Lo Lim.	6.5	24	0	0.00	15	0	0.00	9	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	24	0	0.00	15	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: BICA0173

NPS Station ID: BICA0173
LAT/LON: 45.306503/-107.957449
Agency: 11NPSWRD
Date Created: 12/20/97
Location: BIGHORN LAKE AT YELLOWTAIL DAM
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): BICA_EPA_7E
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE AT YELLOWTAIL DAM. SAMPLES FOR THIS SITE WERE COLLECTED IN MAY; AUGUST; AND OCTOBER 1975. SAMPLES WERE ANALYZED FOR CHLOROPHYLL A AND SECCHI DEPTH. AN INVERSE RELATIONSHIP WAS OBSERVED BETWEEN PLANKTONIC ALGAL CHLOROPHYLL AND SECCHI DEPTH. THE RESULTS WERE PUBLISHED IN THE REPORT "EVALUATION OF WATER QUALITY AND RATE OF SEDIMENTATION IN BIGHORN LAKE; BIGHORN CANYON NATIONAL RECREATION AREA" BY G. FRED LEE AND R. ANNE JONES (COLORADO STATE UNIVERSITY; DECEMBER 1981). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0173

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/21/75-10/17/75	3	6.1	8.34	13.44	5.48	19.604	4.428	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/21/75-10/17/75	3	2.1	2.133	2.7	1.6	0.303	0.551	**	**	**	**

** - Less than 9 observations ## - 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: BICA0174

NPS Station ID: BICA0174
LAT/LON: 45.306560/-107.957505
Agency: 11NPSWRD
Date Created: 11/15/97
Location: BIGHORN LAKE AT YELLOWTAIL DAM
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): BICA_SOLT_0
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE AT YELLOWTAIL DAM. SAMPLES FROM THIS SITE WERE TAKEN DURING A STUDY OF THE POTENTIAL DECLINE IN FISH PRODUCTION OF A NEWLY IMPOUNDED RESERVOIR. SAMPLING WAS DONE FROM 1968 THROUGH 1970; AND THE RESULTS WERE PUBLISHED IN THE THESIS "LIMNOLOGICAL STUDIES ON BIGHORN LAKE AND ITS TRIBUTARIES" BY RAYMOND SOLTERO (MONTANA STATE UNIVERSITY; JUNE 1971). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0174

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/05/68-09/08/70	1286	6.9	9.683	25.	2.2	33.201	5.762	4.2	4.975	14.775	18.3
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/05/68-07/28/69	142	8.	9.817	22.	4.	17.073	4.132	4.	8.	12.	16.
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	09/09/68-09/08/70	766	92.	91.866	100.	74.	10.595	3.255	89.	90.	94.	95.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/05/68-09/08/70	1260	910.	899.593	1300.	600.	15982.497	126.422	735.2	814.	1000.	1050.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/05/68-11/02/68	91	5.4	5.643	11.6	0.6	5.453	2.335	2.62	4.1	7.1	8.94
00406	PH, FIELD, STANDARD UNITS SU	05/05/68-09/08/70	141	8.2	8.163	8.77	7.55	0.087	0.295	7.78	7.96	8.4	8.548
00406	CONVERTED PH, FIELD, STANDARD UNITS	05/05/68-09/08/70	141	8.2	8.067	8.77	7.55	0.096	0.31	7.78	7.96	8.4	8.548
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/05/68-09/08/70	141	0.006	0.009	0.028	0.002	0.	0.006	0.003	0.004	0.011	0.017
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/05/68-09/08/70	54	0.045	0.111	0.59	0.	0.018	0.133	0.	0.01	0.18	0.285
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/05/68-09/08/70	55	0.009	0.009	0.05	0.	0.	0.009	0.	0.004	0.01	0.016
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/05/68-09/08/70	143	0.42	0.451	0.91	0.1	0.03	0.173	0.26	0.29	0.6	0.676
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/05/68-09/08/70	141	0.03	0.068	0.8	0.	0.011	0.103	0.	0.	0.09	0.224
01042	COPPER, TOTAL (UG/L AS CU)	04/15/69-08/11/69	16	1.	0.875	2.	0.	0.25	0.5	0.	1.	1.	1.3
01055	MANGANESE, TOTAL (UG/L AS MN)	04/15/69-08/11/69	16	2.	12.688	66.	1.	407.296	20.182	1.	1.	22.25	52.
01092	ZINC, TOTAL (UG/L AS ZN)	04/15/69-08/11/69	16	6.	11.125	42.	0.	140.783	11.865	1.4	3.	18.75	31.5
32238	CHLOROPHYLL-A,PHYTOPLANKTON,FLURORMETRIC MTH MG/M3	05/05/68-09/08/70	51	3.2	3.184	8.9	0.	3.324	1.823	1.16	1.9	4.1	5.7
74010	IRON, TOTAL (MG/L AS FE)	05/05/69-08/11/69	13	0.005	0.03	0.15	0.001	0.003	0.052	0.001	0.003	0.025	0.146

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

EPA Water Quality Criteria Analysis for Station: BICA0174

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	142	0	0.00	39	0	0.00	64	0	0.00	39	0	0.00			
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	91	21	0.23	39	15	0.38	26	4	0.15	26	2	0.08			
00406	PH, FIELD	Fresh Chronic	9.	141	0	0.00	55	0	0.00	41	0	0.00	45	0	0.00			
		Other-Lo Lim.	6.5	141	0	0.00	55	0	0.00	41	0	0.00	45	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	55	0	0.00	17	0	0.00	18	0	0.00	20	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	143	0	0.00	56	0	0.00	41	0	0.00	46	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	16	0	0.00	1	0	0.00	10	0	0.00	5	0	0.00			
		Drinking Water	1300.	16	0	0.00	1	0	0.00	10	0	0.00	5	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	16	0	0.00	1	0	0.00	10	0	0.00	5	0	0.00			
		Drinking Water	5000.	16	0	0.00	1	0	0.00	10	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: BICA0175

NPS Station ID: BICA0175
LAT/LON: 45.306948/-107.958338
Agency: 11EPALES
Date Created: / /
Location: BIG HORN RIVER
FIPS State/County: 56000 WYOMING/
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 5614A1
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: O/YELLOWTAIL RESERVOIR
Elevation: 0
Water Body Id:
Minor Basin: BELO DAM 1.5 MI FRM FORT SMITH
ECO Region:
RF1 Index: 10080010015
RF1 Mile Point: 4.450
Distance from RF1: 10.10
On/Off RF1: OFF
RF3 Index: 10080015090400.00
RF3 Mile Point: 0.66
Distance from RF3: 0.19
On/Off RF3:
Description:
BANK SAMPLE BELOW DAM AT END OF MEDIUM DUTY RD APPROX 1.5 MI BY ROAD FROM FT SMITH SEC 18 T6S R30E

Parameter Inventory for Station: BICA0175

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/05/74-08/02/75	8	0.04	0.08	0.368	0.01	0.014	0.117	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/05/74-10/05/74	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/05/74-10/05/74	1	0.368	0.368	0.368	0.368	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/05/74-08/02/75	8	1.2	1.194	2.2	0.4	0.47	0.686	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/05/74-08/02/75	8	0.41	0.403	0.45	0.35	0.002	0.04	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/74-08/02/75	8	0.024	0.021	0.03	0.01	0.	0.008	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/05/74-08/02/75	8	0.016	0.015	0.02	0.01	0.	0.004	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0175

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------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.	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.	8	0	0.00	5	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: BICA0176

NPS Station ID: BICA0176
LAT/LON: 45.307142/-107.972977
Agency: 11NPSWRD
Date Created: 02/21/98
Location: BIGHORN LAKE NEAR YELLOWTAIL DAM
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): BICA_MFG_A
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080010
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON BIGHORN LAKE NEAR YELLOWTAIL DAM. SAMPLES FOR THIS SITE WERE COLLECTED FROM 1970-1972 BY THE MONTANA FISH AND GAME DEPARTMENT. SAMPLES WERE ANALYZED FOR DISSOLVED OXYGEN IN 1970 AND TEMPERATURE IN 1970-1972. THE RESULTS WERE OBTAINED FROM NATURAL RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0176

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/21/70-10/20/72	607	13.3	12.596	22.8	2.8	32.517	5.702	3.9	7.5	17.8	18.92
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/21/70-10/20/72	22	20.7	19.018	31.2	4.4	48.859	6.99	6.74	14.725	24.1	26.1
00300	OXYGEN, DISSOLVED MG/L	05/21/70-12/02/70	37	6.4	6.422	9.4	2.6	3.353	1.831	3.92	4.9	8.3	8.64

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: BICA0176

			Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	37	4	0.11	25	4	0.16	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: BICA0177

NPS Station ID: BICA0177 LAT/LON: 45.307531/-107.957366 Agency: 11NPSWRD Date Created: 11/15/97
Location: EFFLUENT WATERS (DISCHARGE) FROM YELLOWTAIL DAM FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): BICA_SOLT_EFFLU
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10080010 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080010 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10080014004800.00 RF3 Mile Point: 0.75 Distance from RF3: 0.35 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON THE BIGHORN RIVER AT THE BASE OF YELLOWTAIL DAM. SAMPLES FROM THIS SITE WERE TAKEN DURING A STUDY OF THE POTENTIAL DECLINE IN FISH PRODUCTION OF A NEWLY IMPOUNDED RESERVOIR. SAMPLING WAS DONE FROM 1968 THROUGH 1970; AND THE RESULTS WERE PUBLISHED IN THE THESIS "LIMNOLOGICAL STUDIES ON BIGHORN LAKE AND ITS TRIBUTARIES" BY RAYMOND SOLTERO (MONTANA STATE UNIVERSITY; JUNE 1971). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA P.O. BOX 7458 FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0177

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/22/68-08/11/69	38	5.1	6.411	16.2	1.8	16.356	4.044	2.2	3.25	8.575	13.98
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/22/68-08/18/69	44	9.	11.273	36.	0.	63.645	7.978	4.	4.5	16.	22.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/22/68-08/18/69	45	887.	874.044	971.	669.	4519.225	67.225	760.4	847.5	919.	932.4
00403	PH, LAB, STANDARD UNITS SU	02/22/68-08/18/69	45	8.2	8.1	8.4	7.1	0.094	0.307	7.66	8.05	8.3	8.4
00403	CONVERTED PH, LAB, STANDARD UNITS	02/22/68-08/18/69	45	8.2	7.937	8.4	7.1	0.121	0.348	7.66	8.05	8.3	8.4
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/22/68-08/18/69	45	0.006	0.012	0.079	0.004	0.	0.016	0.004	0.005	0.009	0.022
00406	PH, FIELD, STANDARD UNITS SU	02/22/68-08/11/69	33	7.99	7.859	8.31	6.81	0.121	0.347	7.206	7.75	8.09	8.148
00406	CONVERTED PH, FIELD, STANDARD UNITS	02/22/68-08/11/69	33	7.99	7.66	8.31	6.81	0.162	0.402	7.206	7.75	8.09	8.148
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/22/68-08/11/69	33	0.01	0.022	0.155	0.005	0.001	0.032	0.007	0.008	0.018	0.068
00440	BICARBONATE ION (MG/L AS HCO3)	02/22/68-08/18/69	46	190.	189.5	242.	137.	337.811	18.38	171.	178.5	198.5	211.2
00600	NITROGEN, TOTAL (MG/L AS N)	02/22/68-08/11/69	44	0.56	0.655	1.43	0.06	0.151	0.388	0.17	0.35	0.943	1.255
00602	NITROGEN, DISSOLVED (MG/L AS N)	02/22/68-08/11/69	36	0.44	0.458	1.67	0.03	0.105	0.324	0.089	0.203	0.655	0.832
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/22/68-08/18/69	41	0.18	0.197	0.55	0.	0.019	0.138	0.012	0.09	0.305	0.368
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	02/22/68-08/18/69	41	0.005	0.005	0.017	0.	0.	0.004	0.001	0.002	0.006	0.01
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/22/68-08/18/69	42	0.635	0.545	0.83	0.	0.044	0.21	0.197	0.413	0.678	0.73
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	02/22/68-08/18/69	45	0.07	0.096	0.35	0.	0.007	0.084	0.	0.04	0.14	0.24
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	02/22/68-08/18/69	39	0.02	0.045	0.2	0.	0.003	0.055	0.	0.	0.06	0.15
00655	PHOSPHATE, POLY (MG/L AS PO4)	01/18/69-08/18/69	26	0.05	0.086	0.36	0.	0.011	0.105	0.	0.	0.14	0.283
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/22/68-08/18/69	46	0.025	0.038	0.17	0.	0.002	0.042	0.	0.	0.06	0.093
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/19/68-08/18/69	32	10.65	13.694	37.3	5.3	59.065	7.685	6.06	8.425	17.4	27.11
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	08/19/68-08/18/69	32	8.1	8.788	23.	0.	16.991	4.122	5.3	6.125	10.25	14.14
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	08/19/68-08/18/69	31	2.	4.477	30.8	0.	57.188	7.562	0.	0.	4.4	20.32
00916	CALCIUM, TOTAL (MG/L AS CA)	02/22/68-08/18/69	46	75.3	75.285	99.8	40.1	92.64	9.625	62.64	71.85	80.55	86.96
00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/22/68-08/18/69	46	24.3	23.748	41.1	11.1	25.231	5.023	17.43	22.575	26.3	28.35

** - 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

Parameter Inventory for Station: BICA0177

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00929	SODIUM, TOTAL (MG/L AS NA)	02/22/68-08/18/69	46	80.23	78.321	103.45	45.75	142.082	11.92	62.415	70.8	85.348	94.641
00937	POTASSIUM, TOTAL MG/L AS K)	02/22/68-08/18/69	46	4.69	5.217	16.42	2.35	6.305	2.511	3.52	4.3	5.178	6.37
00940	CHLORIDE,TOTAL IN WATER MG/L	02/22/68-08/18/69	46	12.	11.348	16.	7.	3.654	1.912	8.7	10.	13.	13.
00945	SULFATE, TOTAL (MG/L AS SO4)	02/22/68-08/18/69	45	270.	276.156	356.	208.	987.543	31.425	245.8	254.5	295.	316.
00951	FLUORIDE, TOTAL (MG/L AS F)	02/22/68-08/18/69	45	0.76	0.709	1.9	0.38	0.079	0.282	0.38	0.57	0.76	1.026
00956	SILICA, TOTAL (MG/L AS SI02)	03/07/68-08/18/69	44	10.6	10.28	14.	6.	2.683	1.638	7.95	9.25	11.275	12.25
01042	COPPER, TOTAL (UG/L AS CU)	02/22/68-08/18/69	43	1.	1.251	6.	0.	1.326	1.152	0.64	0.8	1.	2.
01055	MANGANESE, TOTAL (UG/L AS MN)	02/22/68-08/18/69	45	5.	19.6	300.	0.	2310.291	48.065	0.	1.	12.	54.4
01092	ZINC, TOTAL (UG/L AS ZN)	04/11/68-08/18/69	41	20.	25.22	110.	0.	466.526	21.599	4.4	8.	31.5	56.8
74010	IRON, TOTAL (MG/L AS FE)	02/22/68-08/18/69	45	0.009	0.035	0.46	0.	0.006	0.081	0.001	0.004	0.03	0.084

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

EPA Water Quality Criteria Analysis for Station: BICA0177

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	44	0	0.00	23	0	0.00	12	0	0.00	9	0	0.00			
00403	PH, LAB	Fresh Chronic	9.	45	0	0.00	22	0	0.00	13	0	0.00	10	0	0.00			
		Other-Lo Lim.	6.5	45	0	0.00	22	0	0.00	13	0	0.00	10	0	0.00			
00406	PH, FIELD	Fresh Chronic	9.	33	0	0.00	18	0	0.00	9	0	0.00	6	0	0.00			
		Other-Lo Lim.	6.5	33	0	0.00	18	0	0.00	9	0	0.00	6	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	41	0	0.00	22	0	0.00	11	0	0.00	8	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	42	0	0.00	23	0	0.00	11	0	0.00	8	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	46	0	0.00	23	0	0.00	13	0	0.00	10	0	0.00			
		Drinking Water	250.	46	0	0.00	23	0	0.00	13	0	0.00	10	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	45	38	0.84	23	20	0.87	13	11	0.85	9	7	0.78			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	45	0	0.00	23	0	0.00	13	0	0.00	9	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	43	0	0.00	22	0	0.00	12	0	0.00	9	0	0.00			
		Drinking Water	1300.	43	0	0.00	22	0	0.00	12	0	0.00	9	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	41	0	0.00	20	0	0.00	12	0	0.00	9	0	0.00			
		Drinking Water	5000.	41	0	0.00	20	0	0.00	12	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: BICA0178

NPS Station ID: BICA0178
Location: BIGHORN RIVER BELOW AFTER BAY
Station Type: /TYPA/AMBNT/STREAM
RMI-Indexes:
RMI-Miles:
HUC: 10080015
Major Basin: MISSOURI RIVER
Minor Basin: YELLOWSTONE RIVER
RF1 Index: 10080015
RF3 Index: 10080015003405.64
Description:
CROW 208 PROG

LAT/LON: 45.311670/-107.958615
Depth of Water: 0
Elevation: 0
RF1 Mile Point: 0.000
RF3 Mile Point: 6.36

Agency: 21MTHDWQ
FIPS State/County: 30003 MONTANA/BIG HORN
STORET Station ID(s): 2266BI02
Within Park Boundary: Yes
Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 0.00
Distance from RF3: 0.00

Date Created: 10/12/85
On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: BICA0178

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	10/24/76-10/24/76	1	3.	3.	3.	3.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	10/24/76-10/24/76	1	0.477	0.477	0.477	0.477	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			3.								
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	10/24/76-10/24/76	1	49.	49.	49.	49.	0.	0.	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	10/24/76-10/24/76	1	1.69	1.69	1.69	1.69	0.	0.	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			49.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/24/76-10/24/76	1	2.	2.	2.	2.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/24/76-10/24/76	1	0.301	0.301	0.301	0.301	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			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: BICA0178

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	1	0	0.00	1	0	0.00									
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0179

NPS Station ID: BICA0179
LAT/LON: 45.314392/-108.105616
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38082
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_061 /1037450
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE GRAPEVINE DOME MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0179

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	1	375.	375.	375.	375.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	01/20/79-01/20/79	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/20/79-01/20/79	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/20/79-01/20/79	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	1	86.8	86.8	86.8	86.8	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	1	139.	139.	139.	139.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	1	64.	64.	64.	64.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	1	105.	105.	105.	105.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	1	863.	863.	863.	863.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	1	189.	189.	189.	189.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	1	0.82	0.82	0.82	0.82	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0179

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00	1	1	1.00									
		Drinking Water	15.	1	1	1.00	1	1	1.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0180

NPS Station ID: BICA0180
LAT/LON: 45.316670/-107.918060
Agency: 112WRD
Date Created: / /
Location: BIGHORN RIVER NEAR ST. XAVIER, MT.
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 06287000
RMI-Indexes: 1021500 009490 36810 4430
Within Park Boundary: Yes
RMI-Miles: 1149.40 1582.00 279.40 080.90
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10080015000700.74
RF3 Mile Point: 1.74
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	258	7.	8.348	21.5	1.	25.225	5.022	3.	4.5	12.5	16.55
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/69-09/03/96	120	14.	13.029	33.5	-10.	88.316	9.398	4.05	-1.25	20.875	24.9
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/66-09/10/74	175	3790.	4185.451	20240.	358.	5791001.088	2406.45	2201.	2900.	4810.	6450.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	214	2920.	3318.421	12100.	332.	3280069.315	1811.096	1620.	2132.5	3957.5	5530.
00065	STAGE, STREAM (FEET)	10/10/90-09/03/96	52	60.58	60.884	64.61	59.38	1.386	1.177	59.634	60.183	61.305	62.504
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/23/69-06/02/70	7	2.	2.8	6.	1.2	2.92	1.709	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	10/01/66-12/01/70	66	5.	5.758	17.	0.	12.617	3.552	1.7	3.	8.	11.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	341	854.	847.865	1180.	255.	22658.27	150.527	617.	780.5	950.	1030.
00300	OXYGEN, DISSOLVED MG/L	07/23/69-04/20/70	6	11.3	11.467	12.8	10.	1.307	1.143	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	07/23/69-06/02/70	7	1.	1.243	2.7	0.7	0.49	0.7	**	**	**	**
00400	PH (STANDARD UNITS)	10/01/66-09/16/80	162	8.	7.916	8.5	6.6	0.082	0.286	7.5	7.8	8.1	8.2
00400	CONVERTED PH (STANDARD UNITS)	10/01/66-09/16/80	162	8.	7.789	8.5	6.6	0.098	0.313	7.5	7.8	8.1	8.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-09/16/80	162	0.01	0.016	0.251	0.003	0.	0.022	0.006	0.008	0.016	0.032
00403	PH, LAB, STANDARD UNITS SU	10/28/80-08/25/81	12	8.15	8.242	9.	8.	0.068	0.261	8.03	8.1	8.3	8.79
00403	CONVERTED PH, LAB, STANDARD UNITS	10/28/80-08/25/81	12	8.147	8.192	9.	8.	0.071	0.266	8.03	8.1	8.3	8.79
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/28/80-08/25/81	12	0.007	0.006	0.01	0.001	0.	0.002	0.002	0.005	0.008	0.009
00405	CARBON DIOXIDE (MG/L AS CO2)	09/01/72-09/20/78	41	3.1	4.19	16.	1.3	9.631	3.103	2.12	2.5	4.85	6.62
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/66-09/16/80	208	162.	162.692	216.	107.	463.663	21.533	131.8	151.	178.75	190.
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/66-09/20/78	181	200.	197.851	263.	130.	725.95	26.943	157.6	183.	218.	230.
00445	CARBONATE ION (MG/L AS CO3)	10/01/66-10/01/74	128	0.	0.094	6.	0.	0.385	0.62	0.	0.	0.	0.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	09/11/69-09/11/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	07/23/69-06/02/70	7	0.01	0.011	0.04	0.	0.	0.015	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	07/23/69-06/02/70	7	0.	0.	0.	0.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/01/69-12/01/70	35	0.17	0.183	0.5	0.	0.024	0.155	0.006	0.04	0.3	0.4
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	01/01/71-08/25/81	149	0.4	0.403	2.2	0.	0.069	0.263	0.2	0.3	0.5	0.6
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/01/71-09/20/78	114	0.03	0.031	0.15	0.	0.001	0.036	0.	0.	0.03	0.09
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/69-06/02/70	7	0.06	0.047	0.08	0.	0.001	0.031	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/23/69-07/28/81	138	0.02	0.027	0.47	0.	0.002	0.042	0.005	0.01	0.03	0.05
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/01/72-09/20/78	92	0.01	0.012	0.05	0.	0.	0.012	0.005	0.005	0.01	0.03
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-08/25/81	223	290.	287.399	410.	160.	2629.295	51.277	220.	260.	320.	356.8
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-02/24/81	207	120.	122.357	220.	45.	1146.163	33.855	79.4	100.	140.	175.6
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-08/25/81	216	73.5	73.444	110.	43.	151.067	12.291	56.7	66.	80.75	90.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-08/25/81	216	25.	24.958	38.	13.	27.194	5.215	17.	22.	28.	32.
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-08/25/81	216	78.	77.532	118.	40.	219.571	14.818	56.7	70.	87.75	96.
00931	SODIUM ADSORPTION RATIO	10/01/66-08/25/81	216	2.	1.996	2.6	1.4	0.058	0.242	1.7	1.8	2.1	2.3
00932	SODIUM, PERCENT	10/01/66-08/25/81	216	37.	36.611	42.	30.	3.885	1.971	34.	35.	38.	39.
00933	SODIUM,PLUS POTASSIUM (MG/L)	05/08/79-02/18/80	9	85.	84.667	95.	69.	75.	8.66	69.	79.	94.	95.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-08/25/81	218	3.8	3.829	22.	1.3	1.908	1.381	2.9	3.5	4.2	4.5

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

Parameter Inventory for Station: BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-08/25/81	217	11.	10.834	24.	3.	8.435	2.904	7.	9.	13.	15.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-08/25/81	224	270.	271.353	400.	140.	2973.359	54.529	190.	240.	309.25	340.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-08/25/81	217	0.4	0.428	0.8	0.1	0.012	0.108	0.3	0.4	0.5	0.5
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-08/25/81	216	10.	10.218	16.	0.2	1.982	1.408	8.77	9.425	11.	12.
01020	BORON, DISSOLVED (UG/L AS B)	10/01/66-06/06/74	79	120.	121.266	300.	60.	1362.249	36.909	80.	100.	140.	168.
01045	IRON, TOTAL (UG/L AS FE)	01/03/68-01/03/68	1	179.	179.	179.	179.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	12/12/68-09/20/78	126	10.	24.325	210.	0.	1272.429	35.671	5.	5.	30.	60.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/01/71-09/20/78	117 ##	5.	10.795	160.	0.	453.595	21.298	0.	5.	5.	30.
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/23/69-04/20/70	6	124.5	152.	370.	2.	23840.4	154.403	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/23/69-04/20/70	6	1.996	1.725	2.568	0.301	0.812	0.901	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			53.068								
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	07/23/69-06/02/70	7	0.01	0.024	0.1	0.	0.001	0.036	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/23/69-10/30/69	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	07/23/69-10/30/69	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	07/23/69-10/30/69	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	07/23/69-10/30/69	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	07/23/69-10/30/69	2	0.04	0.04	0.08	0.	0.003	0.057	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	07/23/69-10/30/69	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	07/23/69-10/30/69	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	07/23/69-10/30/69	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	07/23/69-10/30/69	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	07/23/69-10/30/69	2	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	07/23/69-10/30/69	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	07/23/69-10/30/69	2	0.	0.	0.	0.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/66-12/01/70	71	642.	636.423	842.	363.	11611.39	107.756	493.2	571.	699.	789.6
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-08/25/81	195	570.	565.595	792.	322.	8020.964	89.56	435.	517.	625.	674.
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-08/25/81	220	5535.	5935.033	33120.1	511.	12628193.115	3553.617	2641.	3802.508	7135.	8609.999
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-08/25/81	220	0.79	0.792	1.15	0.44	0.021	0.144	0.572	0.71	0.88	0.95
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/04/71-03/02/72	20	0.01	0.007	0.02	0.	0.	0.006	0.	0.	0.01	0.019
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/01/66-12/01/70	72	0.8	0.918	2.9	0.	0.524	0.724	0.1	0.2	1.5	1.87
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	07/23/69-06/02/70	6	0.02	0.022	0.04	0.01	0.	0.01	**	**	**	**
71885	IRON (UG/L AS FE)	04/21/67-09/14/67	2	5.	5.	10.	0.	50.	7.071	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	10/28/80-06/15/81	10	2.8	2.8	3.1	2.5	0.029	0.17	2.51	2.675	2.9	3.08

** - 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: BICA0180

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	6	0	0.00	4	0	0.00	1	0	0.00	1	0	0.00			
00400	PH	Fresh Chronic	9.	162	0	0.00	110	0	0.00	29	0	0.00	23	0	0.00			
		Other-Lo Lim.	6.5	162	0	0.00	110	0	0.00	29	0	0.00	23	0	0.00			
00403	PH, LAB	Fresh Chronic	9.	12	1	0.08	8	1	0.13	3	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	12	0	0.00	8	0	0.00	3	0	0.00	1	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	35	0	0.00	21	0	0.00	8	0	0.00	6	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	149	0	0.00	99	0	0.00	28	0	0.00	22	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	217	0	0.00	146	0	0.00	39	0	0.00	32	0	0.00			
		Drinking Water	250.	217	0	0.00	146	0	0.00	39	0	0.00	32	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	224	159	0.71	150	104	0.69	41	39	0.95	33	16	0.48			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	217	0	0.00	146	0	0.00	39	0	0.00	32	0	0.00			
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	6	0	0.00	4	0	0.00	1	0	0.00	1	0	0.00			
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	2	0	0.00	1	0	0.00				1	0	0.00			
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	0.2	2	0	0.00	1	0	0.00				1	0	0.00			
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	2	0	0.00	1	0	0.00				1	0	0.00			
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	2	0	0.00	1	0	0.00				1	0	0.00			
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	2	0	0.00	1	0	0.00				1	0	0.00			

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

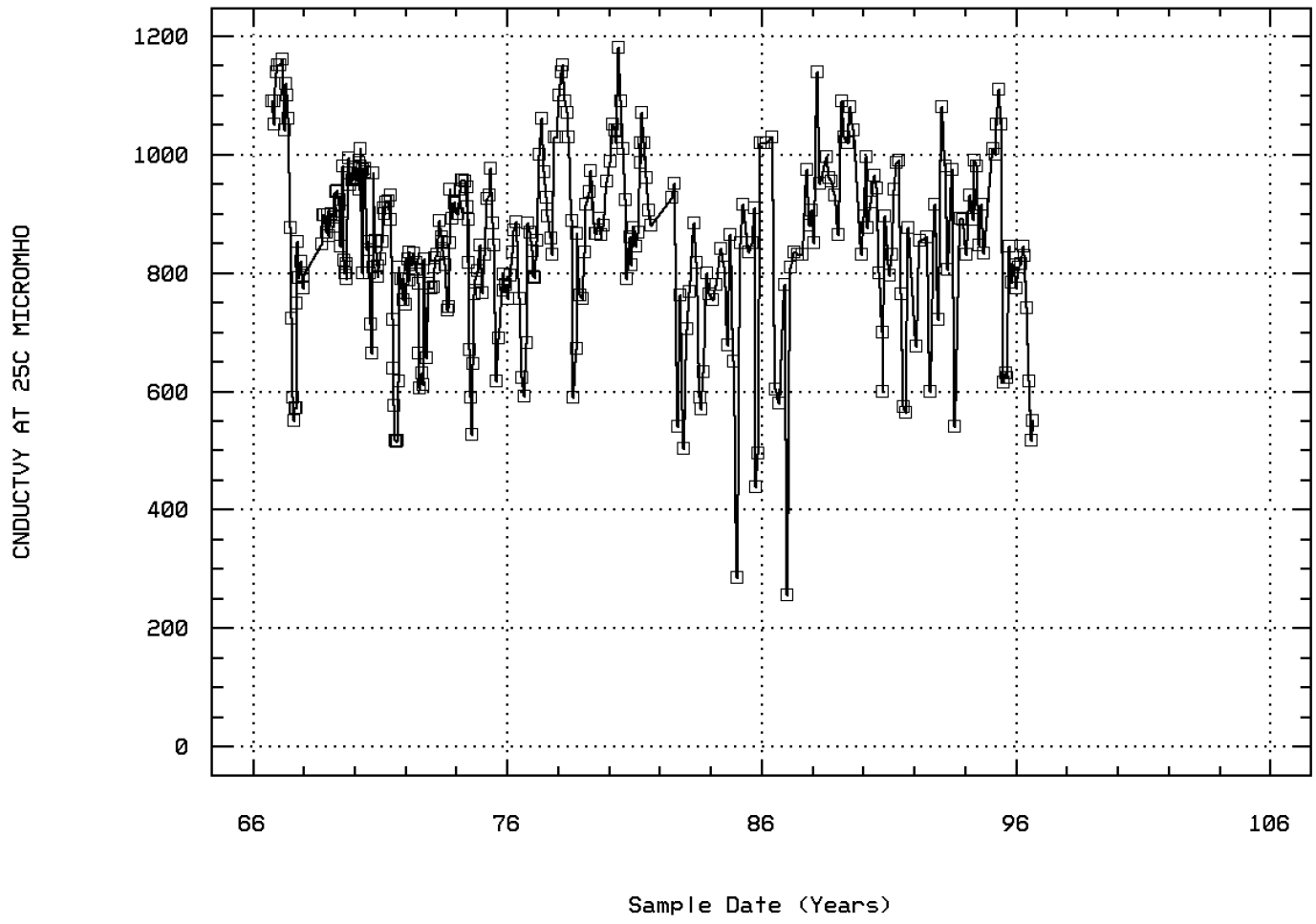
EPA Water Quality Criteria Analysis for Station: BICA0180

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	2	0	0.00	1	0	0.00				1	0	0.00			
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	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			
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	0.4	2	0	0.00	1	0	0.00				1	0	0.00			
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	0.2	2	0	0.00	1	0	0.00				1	0	0.00			
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	2	0	0.00	1	0	0.00				1	0	0.00			
39760	SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	2	0	0.00	1	0	0.00				1	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	72	0	0.00	51	0	0.00	12	0	0.00	9	0	0.00			
71856	NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	6	0	0.00	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: BICA0180 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



BIGHORN RIVER NEAR ST. XAVIER, MT.

Annual Analysis for 1966 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/66-09/10/74	4	1745.5	1822.25	2435.	1363.	199752.917	446.937	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	4	1090.	1092.5	1140.	1050.	1358.333	36.856	**	**	**	**
00400	PH (STANDARD UNITS)	10/01/66-09/16/80	4	7.5	7.55	7.8	7.4	0.03	0.173	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/01/66-09/16/80	4	7.5	7.527	7.8	7.4	0.031	0.175	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-09/16/80	4	0.032	0.03	0.04	0.016	0.	0.01	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/66-09/16/80	4	185.5	187.	194.	183.	24.667	4.967	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/66-09/20/78	4	226.	227.75	236.	223.	34.917	5.909	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/01/66-10/01/74	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-08/25/81	4	362.	362.75	376.	351.	104.917	10.243	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-02/24/81	4	176.5	175.75	182.	168.	34.917	5.909	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-08/25/81	4	92.	92.25	94.	91.	1.583	1.258	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-08/25/81	4	31.5	32.5	36.	31.	5.667	2.38	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-08/25/81	4	108.	107.5	114.	100.	33.667	5.802	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/01/66-08/25/81	4	2.45	2.45	2.6	2.3	0.017	0.129	**	**	**	**
00932	SODIUM, PERCENT	10/01/66-08/25/81	4	39.	38.75	39.	38.	0.25	0.5	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-08/25/81	4	3.9	3.9	4.	3.8	0.013	0.115	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-08/25/81	4	15.	15.	15.	15.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-08/25/81	4	366.	366.5	381.	353.	141.667	11.902	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-08/25/81	4	0.4	0.45	0.6	0.4	0.01	0.1	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-08/25/81	4	11.	11.25	12.	11.	0.25	0.5	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-08/25/81	4	3645.01	3895.008	5390.	2900.01	1130690.033	1063.339	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-08/25/81	4	1.075	1.073	1.12	1.02	0.002	0.041	**	**	**	**

** - 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 1967 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	1	17.8	17.8	17.8	17.8	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/66-09/10/74	19	3252.	5146.579	20240.	1903.	28471856.813	5335.903	2215.	2490.	5123.	19490.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	17	852.	874.706	1160.	549.	51669.596	227.309	566.6	656.	1110.	1152.
00400	PH (STANDARD UNITS)	10/01/66-09/16/80	17	7.7	7.653	8.	7.3	0.06	0.245	7.3	7.45	7.85	8.
00400	CONVERTED PH (STANDARD UNITS)	10/01/66-09/16/80	17	7.7	7.589	8.	7.3	0.064	0.254	7.3	7.45	7.85	8.
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-09/16/80	17	0.02	0.026	0.05	0.01	0.	0.014	0.01	0.014	0.036	0.05
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/66-09/16/80	17	148.	156.059	202.	107.	1209.809	34.782	107.	128.5	197.5	202.
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/66-09/20/78	17	181.	190.118	246.	130.	1796.61	42.386	130.	156.5	240.5	246.
00445	CARBONATE ION (MG/L AS CO3)	10/01/66-10/01/74	17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-08/25/81	17	265.	282.412	394.	168.	7057.257	84.007	176.	198.	380.	390.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-02/24/81	17	114.	126.353	192.	49.	2633.243	51.315	58.6	81.5	180.	191.2
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-08/25/81	17	70.	72.471	99.	46.	372.765	19.307	47.6	54.	94.	98.2
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-08/25/81	17	22.	24.706	37.	13.	78.596	8.865	13.8	15.5	34.	36.2
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-08/25/81	17	84.	85.176	118.	50.	570.654	23.888	53.2	63.	107.	114.8
00931	SODIUM ADSORPTION RATIO	10/01/66-08/25/81	17	2.2	2.188	2.6	1.7	0.1	0.316	1.7	1.9	2.5	2.6
00932	SODIUM, PERCENT	10/01/66-08/25/81	17	39.	39.235	41.	37.	1.316	1.147	37.8	38.5	40.	41.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-08/25/81	17	4.	3.918	5.1	2.8	0.398	0.631	2.96	3.4	4.4	4.86
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-08/25/81	17	9.	10.529	15.	5.	13.64	3.693	5.	7.5	14.	15.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-08/25/81	17	271.	280.529	394.	153.	8093.64	89.965	153.8	197.	370.	393.2
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-08/25/81	17	0.4	0.412	0.7	0.2	0.021	0.145	0.2	0.3	0.5	0.62
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-08/25/81	17	11.	10.747	12.	8.5	0.76	0.872	9.22	10.5	11.	12.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-08/25/81	3	533.	537.	561.	517.	496.	22.271	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-08/25/81	17	5050.	8114.725	33120.1	2580.01	69844709.153	8357.315	2884.01	4325.	7125.	27336.1
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-08/25/81	17	0.81	0.836	1.15	0.49	0.058	0.241	0.514	0.6	1.085	1.134

** - Less than 9 observations ## - Computed with 50% or 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 BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/66-09/10/74	17	4050.	4961.294	10700.	3080.	5434799.471	2331.266	3284.	3690.	5424.5	10692.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	7	868.	854.286	898.	773.	2658.905	51.565	**	**	**	**
00400	PH (STANDARD UNITS)	10/01/66-09/16/80	7	7.8	7.829	8.1	7.6	0.036	0.189	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/01/66-09/16/80	7	7.8	7.794	8.1	7.6	0.037	0.193	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-09/16/80	7	0.016	0.016	0.025	0.008	0.	0.007	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/66-09/16/80	7	165.	161.857	180.	150.	113.476	10.653	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/66-09/20/78	7	201.	197.571	220.	183.	174.286	13.202	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/01/66-10/01/74	7	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-08/25/81	7	276.	274.571	299.	251.	394.952	19.873	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-02/24/81	7	109.	112.571	132.	99.	129.952	11.4	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-08/25/81	7	69.	71.143	80.	65.	32.476	5.699	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-08/25/81	7	24.	23.857	26.	22.	2.476	1.574	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-08/25/81	7	80.	78.857	85.	71.	32.81	5.728	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/01/66-08/25/81	7	2.1	2.071	2.2	1.9	0.009	0.095	**	**	**	**
00932	SODIUM, PERCENT	10/01/66-08/25/81	7	37.	37.714	39.	37.	0.905	0.951	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-08/25/81	7	3.7	3.757	4.2	3.3	0.083	0.288	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-08/25/81	7	10.	10.	12.	8.	1.667	1.291	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-08/25/81	7	276.	272.143	302.	237.	593.476	24.361	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-08/25/81	7	0.4	0.4	0.6	0.3	0.013	0.115	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-08/25/81	7	11.	11.143	12.	10.	0.476	0.69	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	12/12/68-09/20/78	1	210.	210.	210.	210.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-08/25/81	6	589.	577.833	613.	510.	1472.167	38.369	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-08/25/81	7	6620.	6919.857	8179.	6180.	544746.81	738.07	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-08/25/81	7	0.84	0.816	0.88	0.73	0.004	0.061	**	**	**	**

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Annual Analysis for 1969 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	9	8.5	9.	15.	3.	12.313	3.509	3.	7.	11.5	15.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/69-09/03/96	3	28.	19.	31.	-2.	333.	18.248	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/66-09/10/74	22	3245.	3232.682	5000.	1670.	988989.656	994.48	1688.	2465.	3795.	4922.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	22	909.5	900.727	994.	790.	4157.732	64.48	802.7	839.	957.25	979.4
00400	PH (STANDARD UNITS)	10/01/66-09/16/80	19	7.9	7.911	8.5	7.4	0.07	0.264	7.5	7.8	8.1	8.2
00400	CONVERTED PH (STANDARD UNITS)	10/01/66-09/16/80	19	7.9	7.835	8.5	7.4	0.076	0.276	7.5	7.8	8.1	8.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-09/16/80	19	0.013	0.015	0.04	0.003	0.	0.009	0.006	0.008	0.016	0.032
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/66-09/16/80	19	174.	171.474	191.	146.	159.263	12.62	151.	162.	178.	187.
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/66-09/20/78	17	212.	209.	228.	178.	205.75	14.344	182.8	199.5	217.5	228.
00445	CARBONATE ION (MG/L AS CO3)	10/01/66-10/01/74	17	0.	0.176	3.	0.	0.529	0.728	0.	0.	0.	0.6
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/23/69-07/28/81	4	0.005	0.015	0.05	0.	0.001	0.024	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-08/25/81	21	306.	301.857	360.	258.	598.129	24.457	262.6	283.5	316.	329.6
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-02/24/81	17	128.	127.118	142.	111.	99.985	9.999	114.2	117.5	136.	142.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-08/25/81	17	78.	77.059	82.	69.	15.809	3.976	69.8	74.	80.	81.2
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-08/25/81	17	26.	26.059	29.	22.	5.184	2.277	22.	25.	28.	28.2
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-08/25/81	17	81.	85.647	101.	77.	66.618	8.162	78.6	79.5	91.5	100.2
00931	SODIUM ADSORPTION RATIO	10/01/66-08/25/81	17	2.1	2.171	2.5	1.9	0.033	0.183	1.98	2.05	2.25	2.5
00932	SODIUM, PERCENT	10/01/66-08/25/81	17	37.	37.294	41.	35.	3.846	1.961	35.	36.	38.5	41.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-08/25/81	18	4.1	4.883	22.	1.7	18.666	4.32	3.23	3.7	4.275	6.34
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-08/25/81	17	11.	11.059	13.	8.	2.434	1.56	8.8	10.	12.5	13.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-08/25/81	21	290.	292.81	327.	261.	443.962	21.07	262.8	277.	315.	325.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-08/25/81	17	0.4	0.453	0.6	0.4	0.004	0.062	0.4	0.4	0.5	0.52
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-08/25/81	17	10.	10.182	16.	8.	3.534	1.88	8.16	8.75	11.	12.8
01046	IRON, DISSOLVED (UG/L AS FE)	12/12/68-09/20/78	4	48.	69.	180.	0.	6084.	78.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-08/25/81	17	616.	609.353	670.	546.	1373.618	37.062	553.2	582.	636.5	658.8
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-08/25/81	20	5965.	5657.502	8610.	2880.01	2857725.274	1690.481	3000.01	4200.008	6862.5	7870.

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Annual Analysis for 1969 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-08/25/81	20	0.875	0.87	0.95	0.77	0.003	0.058	0.771	0.823	0.918	0.947

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Annual Analysis for 1970 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	7	4.5	4.286	5.5	3.	0.988	0.994	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/69-09/03/96	3	10.	11.167	17.5	6.	34.083	5.838	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/66-09/10/74	27	3160.	3304.481	10500.	521.	3370265.336	1835.828	1588.	2040.	3990.	4802.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	22	897.5	877.182	1010.	663.	11992.442	109.51	678.7	800.	974.5	984.2
00400	PH (STANDARD UNITS)	10/01/66-09/16/80	23	7.9	7.957	8.3	7.5	0.04	0.2	7.7	7.8	8.1	8.2
00400	CONVERTED PH (STANDARD UNITS)	10/01/66-09/16/80	23	7.9	7.911	8.3	7.5	0.042	0.205	7.7	7.8	8.1	8.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-09/16/80	23	0.013	0.012	0.032	0.005	0.	0.006	0.006	0.008	0.016	0.02
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/66-09/16/80	23	174.	172.87	207.	140.	268.755	16.394	150.	158.	185.	194.6
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/66-09/20/78	20	213.5	210.25	252.	170.	455.25	21.337	180.6	192.	225.	240.2
00445	CARBONATE ION (MG/L AS CO3)	10/01/66-10/01/74	20	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/23/69-07/28/81	9	0.02	0.026	0.05	0.	0.	0.018	0.	0.01	0.045	0.05
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-08/25/81	23	310.	304.652	374.	232.	1661.055	40.756	235.2	279.	340.	348.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-02/24/81	20	128.	126.25	167.	77.	646.197	25.42	84.6	107.75	146.	156.6
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-08/25/81	20	76.5	76.9	95.	61.	93.884	9.689	62.3	68.25	85.	88.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-08/25/81	20	26.5	26.05	33.	16.	20.576	4.536	20.	23.	29.75	31.9
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-08/25/81	20	84.5	81.85	100.	56.	162.976	12.766	59.8	71.5	91.	99.4
00931	SODIUM ADSORPTION RATIO	10/01/66-08/25/81	20	2.1	2.07	2.4	1.6	0.052	0.227	1.71	1.925	2.2	2.4
00932	SODIUM, PERCENT	10/01/66-08/25/81	20	37.	36.75	42.	33.	5.25	2.291	34.	35.	38.75	39.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-08/25/81	20	4.2	4.21	5.2	2.8	0.446	0.668	3.41	3.65	4.9	5.1
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-08/25/81	20	11.	10.65	14.	6.	3.818	1.954	7.1	10.	12.	12.9
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-08/25/81	23	307.	287.87	332.	197.	1700.937	41.242	206.4	264.	320.	326.8
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-08/25/81	20	0.5	0.44	0.6	0.2	0.01	0.099	0.3	0.4	0.5	0.5
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-08/25/81	20	10.	9.72	12.	6.	3.282	1.812	6.4	8.65	11.	12.
01046	IRON, DISSOLVED (UG/L AS FE)	12/12/68-09/20/78	4	69.5	65.25	116.	6.	3080.917	55.506	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-08/25/81	20	610.5	597.75	692.	444.	6197.355	78.723	448.5	553.25	663.75	685.3
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-08/25/81	23	5380.	5711.304	16700.	1030.	11139811.858	3337.636	2154.	3030.	7260.	9240.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-08/25/81	23	0.92	0.863	1.	0.63	0.013	0.112	0.656	0.79	0.95	0.984

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Annual Analysis for 1971 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	11	9.	9.136	17.5	1.5	35.405	5.95	1.8	3.	14.5	17.4
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/66-09/10/74	27	4920.	4936.296	8190.	2570.	2826808.832	1681.312	2590.	3540.	6450.	7816.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	20	799.5	759.9	930.	515.	21431.674	146.396	517.	621.75	896.75	921.7
00400	PH (STANDARD UNITS)	10/01/66-09/16/80	20	8.1	8.025	8.4	7.3	0.067	0.259	7.71	7.825	8.2	8.3
00400	CONVERTED PH (STANDARD UNITS)	10/01/66-09/16/80	20	8.1	7.935	8.4	7.3	0.076	0.275	7.71	7.825	8.2	8.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-09/16/80	20	0.008	0.012	0.05	0.004	0.	0.01	0.005	0.006	0.015	0.02
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/66-09/16/80	20	150.	153.55	216.	112.	800.05	28.285	112.8	127.75	176.	190.8
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/66-09/20/78	20	183.	186.95	263.	136.	1174.366	34.269	137.9	155.25	214.75	229.
00445	CARBONATE ION (MG/L AS CO3)	10/01/66-10/01/74	19	0.	0.105	2.	0.	0.211	0.459	0.	0.	0.	0.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	01/01/71-08/25/81	20	0.2	0.215	0.4	0.	0.016	0.126	0.035	0.1	0.3	0.4
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/01/71-09/20/78	20	0.03	0.024	0.06	0.	0.	0.02	0.	0.	0.03	0.059
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/23/69-07/28/81	11	0.05	0.046	0.1	0.	0.001	0.028	0.004	0.02	0.06	0.096
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-08/25/81	20	255.	247.	320.	160.	2853.684	53.42	161.	200.	297.5	310.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-02/24/81	20	99.	90.85	130.	45.	730.134	27.021	52.1	66.	107.5	130.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-08/25/81	20	64.5	63.15	82.	43.	165.292	12.857	44.1	51.5	75.75	79.7

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Annual Analysis for 1971 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-08/25/81	20	21.5	21.3	28.	13.	27.063	5.202	13.1	16.25	26.75	27.9
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-08/25/81	20	73.	67.35	89.	40.	235.503	15.346	42.1	54.25	79.	87.4
00931	SODIUM ADSORPTION RATIO	10/01/66-08/25/81	20	1.9	1.86	2.3	1.4	0.073	0.27	1.41	1.6	2.075	2.2
00932	SODIUM, PERCENT	10/01/66-08/25/81	20	37.	36.95	41.	32.	5.208	2.282	34.	35.25	39.	39.9
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-08/25/81	20	3.65	3.385	4.8	2.	0.488	0.698	2.41	2.825	3.875	4.
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-08/25/81	20	10.	9.05	13.	3.	5.734	2.395	6.	7.25	10.75	11.9
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-08/25/81	20	240.	228.5	320.	140.	2876.579	53.634	140.	182.5	277.5	280.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-08/25/81	20	0.4	0.49	0.8	0.1	0.038	0.194	0.3	0.4	0.675	0.8
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-08/25/81	20	11.	10.895	14.	8.9	1.464	1.21	8.95	9.925	11.75	12.
01046	IRON, DISSOLVED (UG/L AS FE)	12/12/68-09/20/78	20	10.	21.5	140.	0.	1381.842	37.173	0.	0.	10.	89.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/01/71-09/20/78	20	0.	20.9	160.	0.	2087.253	45.686	0.	0.	12.25	124.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-08/25/81	20	516.5	497.1	652.	322.	10914.516	104.473	327.7	405.	587.5	627.8
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-08/25/81	20	6644.99	6668.998	14400.	2290.	10794936.322	3285.565	2368.	4080.	8207.5	12490.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-08/25/81	20	0.705	0.676	0.89	0.44	0.02	0.143	0.441	0.555	0.795	0.857

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Annual Analysis for 1972 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	12	7.25	8.708	17.	2.	31.112	5.578	2.15	3.5	14.875	16.7
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/66-09/10/74	25	4050.	4308.32	6700.	358.	1964763.893	1401.7	3136.	3380.	5055.	6472.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	17	782.	752.059	835.	605.	6913.809	83.149	609.8	660.5	820.	832.6
00400	PH (STANDARD UNITS)	10/01/66-09/16/80	17	7.9	7.771	8.4	6.6	0.206	0.454	6.92	7.6	8.1	8.24
00400	CONVERTED PH (STANDARD UNITS)	10/01/66-09/16/80	17	7.9	7.467	8.4	6.6	0.304	0.551	6.92	7.6	8.1	8.24
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-09/16/80	17	0.013	0.034	0.251	0.004	0.004	0.06	0.006	0.008	0.026	0.13
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/66-09/16/80	17	155.	150.941	171.	122.	237.434	15.409	124.4	140.	162.5	167.8
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/66-09/20/78	17	189.	183.353	208.	149.	323.743	17.993	152.2	171.	195.5	202.4
00445	CARBONATE ION (MG/L AS CO3)	10/01/66-10/01/74	17	0.	0.353	6.	0.	2.118	1.455	0.	0.	0.	1.2
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	01/01/71-08/25/81	17	0.2	0.238	0.4	0.	0.013	0.112	0.032	0.2	0.3	0.4
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/01/71-09/20/78	17	0.	0.009	0.03	0.	0.	0.014	0.	0.	0.03	0.03
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/23/69-07/28/81	12	0.02	0.061	0.47	0.01	0.017	0.129	0.01	0.013	0.038	0.344
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/01/72-09/20/78	15	0.	0.004	0.01	0.	0.	0.004	0.	0.	0.01	0.01
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-08/25/81	17	270.	250.588	280.	200.	830.882	28.825	200.	220.	270.	280.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-02/24/81	17	100.	99.176	120.	73.	234.279	15.306	73.8	83.5	110.	120.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-08/25/81	17	69.	65.294	73.	53.	48.721	6.98	53.8	57.5	70.5	72.2
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-08/25/81	17	22.	21.176	25.	16.	7.154	2.675	16.8	19.	23.	23.4
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-08/25/81	17	70.	66.588	78.	48.	102.757	10.137	48.8	58.5	74.	77.2
00931	SODIUM ADSORPTION RATIO	10/01/66-08/25/81	17	1.9	1.824	2.1	1.5	0.038	0.195	1.5	1.7	1.95	2.1
00932	SODIUM, PERCENT	10/01/66-08/25/81	17	36.	36.118	39.	33.	2.485	1.576	33.8	35.	37.	38.2
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-08/25/81	17	3.4	3.312	3.9	2.5	0.174	0.417	2.5	3.05	3.6	3.74
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-08/25/81	17	10.	9.588	13.	6.	4.382	2.093	6.	7.5	11.	12.2
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-08/25/81	17	240.	228.235	260.	170.	1027.941	32.062	178.	190.	250.	260.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-08/25/81	17	0.4	0.418	0.6	0.3	0.007	0.081	0.3	0.4	0.5	0.52
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-08/25/81	17	10.	10.276	13.	7.7	2.166	1.472	8.02	9.3	11.5	12.2
01046	IRON, DISSOLVED (UG/L AS FE)	12/12/68-09/20/78	17	10.	17.588	50.	9.	132.632	11.517	9.8	10.	25.	34.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/01/71-09/20/78	17	5.	8.235	40.	0.	134.191	11.584	0.	0.	10.	32.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-08/25/81	17	524.	496.647	565.	381.	3929.993	62.69	391.4	431.	542.	558.6
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-08/25/81	17	6010.	6031.172	9609.99	3320.	3583109.865	1892.91	3360.	4610.	7124.995	9073.99
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-08/25/81	17	0.71	0.676	0.77	0.52	0.007	0.086	0.536	0.585	0.74	0.762

** - Less than 9 observations ## - Computed with 50% or 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 BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	12	6.5	7.75	17.	2.5	25.977	5.097	2.5	3.125	13.125	16.1
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/66-09/10/74	22	3890.	4001.364	7420.	1690.	1517107.576	1231.709	2573.	3245.	4502.5	5665.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	3	5470.	5406.667	7780.	2970.	5787033.333	2405.625	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	17	836.	838.706	940.	736.	3651.096	60.424	741.6	792.5	889.	923.2
00400	PH (STANDARD UNITS)	10/01/66-09/16/80	17	8.	7.935	8.2	7.3	0.066	0.257	7.38	7.85	8.1	8.2
00400	CONVERTED PH (STANDARD UNITS)	10/01/66-09/16/80	17	8.	7.844	8.2	7.3	0.075	0.274	7.38	7.85	8.1	8.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-09/16/80	17	0.01	0.014	0.05	0.006	0.	0.012	0.006	0.008	0.014	0.042
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/66-09/16/80	17	164.	161.118	174.	141.	116.11	10.775	142.6	152.	169.	173.2
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/66-09/20/78	17	200.	196.412	212.	172.	174.382	13.205	173.6	185.	206.	211.2
00445	CARBONATE ION (MG/L AS CO3)	10/01/66-10/01/74	17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	01/01/71-08/25/81	17	0.3	0.306	0.5	0.1	0.014	0.12	0.1	0.2	0.4	0.5
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/01/71-09/20/78	17	0.03	0.042	0.12	0.	0.002	0.043	0.	0.	0.09	0.096
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/23/69-07/28/81	12	0.02	0.023	0.06	0.005	0.	0.017	0.005	0.01	0.028	0.057
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/01/72-09/20/78	17	0.01	0.016	0.04	0.005	0.	0.012	0.005	0.005	0.03	0.032
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-08/25/81	17	280.	274.706	310.	240.	538.971	23.216	240.	250.	300.	302.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-02/24/81	17	110.	114.706	140.	75.	260.846	16.151	91.	110.	130.	132.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-08/25/81	17	73.	71.471	78.	62.	31.265	5.591	62.	66.5	76.5	78.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-08/25/81	17	23.	23.412	27.	17.	6.007	2.451	20.2	22.	25.5	26.2
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-08/25/81	17	73.	73.706	89.	59.	64.846	8.053	62.2	68.	81.5	85.
00931	SODIUM ADSORPTION RATIO	10/01/66-08/25/81	17	1.9	1.941	2.2	1.7	0.02	0.142	1.78	1.8	2.1	2.12
00932	SODIUM, PERCENT	10/01/66-08/25/81	17	37.	36.353	39.	34.	1.743	1.32	34.	35.5	37.	38.2
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-08/25/81	17	3.8	3.771	4.2	2.9	0.143	0.379	2.98	3.65	4.05	4.2
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-08/25/81	17	11.	10.824	13.	9.	1.654	1.286	9.	9.5	12.	12.2
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-08/25/81	17	250.	253.706	290.	210.	639.721	25.293	218.	235.	275.	290.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-08/25/81	17	0.4	0.394	0.5	0.2	0.008	0.09	0.28	0.3	0.5	0.5
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-08/25/81	17	11.	10.665	12.	9.3	0.561	0.749	9.86	10.	11.	12.
01046	IRON, DISSOLVED (UG/L AS FE)	12/12/68-09/20/78	17	9.	12.294	40.	5.	118.221	10.873	5.	5.	14.5	32.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/01/71-09/20/78	17 ##	5.	7.235	40.	5.	71.816	8.474	5.	5.	5.	14.4
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-08/25/81	17	559.	549.941	613.	475.	2239.809	47.327	477.4	505.5	593.5	610.6
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-08/25/81	17	5450.	6073.529	11600.	3300.	4229599.265	2056.599	3996.	4720.	7635.	8888.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-08/25/81	17	0.76	0.747	0.83	0.65	0.004	0.064	0.65	0.685	0.805	0.83

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Annual Analysis for 1974 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	12	8.25	9.833	20.	3.5	36.288	6.024	3.65	4.	15.5	19.55
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/66-09/10/74	12	4150.	4473.333	8950.	2550.	3480915.152	1865.721	2634.	2930.	5425.	8161.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	12	3910.	4164.167	7930.	2040.	2990262.879	1729.238	2163.	2712.5	5370.	7423.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	18	868.	822.611	957.	526.	18145.31	134.705	582.7	741.25	942.	956.1
00400	PH (STANDARD UNITS)	10/01/66-09/16/80	8	8.05	8.038	8.2	7.8	0.02	0.141	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/01/66-09/16/80	8	8.047	8.017	8.2	7.8	0.02	0.142	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-09/16/80	8	0.009	0.01	0.016	0.006	0.	0.003	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/66-09/16/80	17	162.	157.176	183.	116.	460.779	21.466	120.	140.	176.5	181.4
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/66-09/20/78	17	197.	191.412	223.	141.	696.132	26.384	145.8	170.5	215.5	221.4
00445	CARBONATE ION (MG/L AS CO3)	10/01/66-10/01/74	10	0.	0.1	1.	0.	0.1	0.316	0.	0.	0.	0.9
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	01/01/71-08/25/81	17	0.3	0.288	0.6	0.1	0.012	0.111	0.18	0.2	0.3	0.44
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/01/71-09/20/78	17	0.03	0.023	0.15	0.	0.001	0.036	0.	0.	0.03	0.054
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/23/69-07/28/81	12	0.035	0.034	0.07	0.005	0.	0.017	0.01	0.02	0.04	0.064
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/01/72-09/20/78	17	0.01	0.01	0.05	0.005	0.	0.011	0.005	0.005	0.01	0.018
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-08/25/81	17	280.	270.588	340.	170.	2668.382	51.656	186.	225.	315.	324.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-02/24/81	17	120.	112.471	160.	54.	929.39	30.486	63.6	86.	135.	144.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-08/25/81	17	70.	69.588	84.	45.	148.257	12.176	49.	60.	81.	82.4
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-08/25/81	17	26.	23.471	32.	14.	28.64	5.352	14.8	18.5	27.5	28.8
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-08/25/81	17	78.	70.118	88.	42.	193.985	13.928	46.8	59.5	80.5	83.2
00931	SODIUM ADSORPTION RATIO	10/01/66-08/25/81	17	2.	1.859	2.2	1.4	0.054	0.232	1.48	1.7	2.	2.12

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Annual Analysis for 1974 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00932	SODIUM, PERCENT	10/01/66-08/25/81	17	35.	35.706	40.	32.	3.721	1.929	32.8	35.	37.	38.4
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-08/25/81	17	3.8	3.571	4.6	1.3	0.843	0.918	1.54	3.3	4.15	4.52
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-08/25/81	17	10.	9.706	13.	5.	7.221	2.687	5.8	7.5	12.5	13.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-08/25/81	17	260.	248.235	300.	140.	2840.441	53.296	156.	210.	300.	300.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-08/25/81	17	0.4	0.382	0.5	0.3	0.007	0.081	0.3	0.3	0.45	0.5
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-08/25/81	17	10.	10.171	11.	8.2	0.858	0.927	8.76	9.35	11.	11.
01046	IRON, DISSOLVED (UG/L AS FE)	12/12/68-09/20/78	17 ##	5.	28.529	140.	5.	1699.265	41.222	5.	5.	30.	124.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/01/71-09/20/78	17 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-08/25/81	17	559.	531.118	635.	330.	10065.36	100.326	358.	454.	625.	633.4
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-08/25/81	17	6130.	6537.647	12800.	2510.	9064981.618	3010.811	2758.	3745.	8770.	10960.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-08/25/81	17	0.76	0.724	0.86	0.45	0.018	0.135	0.49	0.62	0.85	0.86

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Annual Analysis for 1975 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	12	6.25	8.375	19.5	1.	37.142	6.094	1.3	3.5	12.5	19.05
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	12	4225.	4353.	7640.	376.	3376006.182	1837.391	1226.2	3482.5	5625.	7319.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	12	814.	817.917	977.	617.	10797.174	103.909	638.9	767.	915.5	963.2
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/66-09/16/80	12	159.	160.333	184.	129.	314.424	17.732	131.1	150.75	179.75	183.1
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/66-09/20/78	12	193.5	195.5	224.	157.	469.545	21.669	159.7	184.	219.5	223.1
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	01/01/71-08/25/81	12	0.4	0.433	0.8	0.3	0.021	0.144	0.3	0.325	0.475	0.74
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/01/71-09/20/78	12	0.03	0.038	0.15	0.	0.002	0.041	0.	0.008	0.053	0.123
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/23/69-07/28/81	12	0.02	0.023	0.06	0.01	0.	0.015	0.01	0.01	0.03	0.054
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/01/72-09/20/78	12	0.01	0.014	0.05	0.005	0.	0.012	0.005	0.006	0.018	0.041
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-08/25/81	12	270.	275.	330.	200.	1663.636	40.788	209.	250.	315.	330.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-02/24/81	12	115.	114.917	150.	74.	573.902	23.956	79.1	96.	130.	150.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-08/25/81	12	71.	70.917	84.	53.	94.265	9.709	54.5	65.	80.25	83.4
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-08/25/81	12	23.	23.833	30.	17.	16.697	4.086	17.9	21.	27.5	30.
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-08/25/81	12	70.5	70.083	81.	53.	74.265	8.618	54.8	65.25	77.25	81.
00931	SODIUM ADSORPTION RATIO	10/01/66-08/25/81	12	1.85	1.842	2.	1.6	0.014	0.116	1.63	1.8	1.9	2.
00932	SODIUM, PERCENT	10/01/66-08/25/81	12	35.	35.417	38.	34.	1.538	1.24	34.	34.25	36.	37.7
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-08/25/81	12	3.65	3.658	4.5	2.9	0.159	0.399	3.02	3.425	3.8	4.38
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-08/25/81	12	9.5	10.25	16.	7.	7.295	2.701	7.3	8.	12.75	15.1
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-08/25/81	12	245.	244.167	300.	170.	1481.061	38.485	176.	230.	277.5	297.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-08/25/81	12	0.4	0.375	0.5	0.3	0.004	0.062	0.3	0.3	0.4	0.47
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-08/25/81	12	9.55	9.9	11.	8.9	0.733	0.856	8.96	9.225	11.	11.
01046	IRON, DISSOLVED (UG/L AS FE)	12/12/68-09/20/78	12 ##	12.5	16.667	60.	5.	265.152	16.283	5.	5.	20.	51.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/01/71-09/20/78	12 ##	5.	16.667	60.	5.	351.515	18.749	5.	5.	30.	54.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-08/25/81	12	528.	531.667	630.	391.	5543.697	74.456	403.3	500.	606.75	628.5
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-08/25/81	12	6085.	6241.75	11200.	511.	7490264.023	2736.835	1539.7	5285.	7160.	10930.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-08/25/81	12	0.72	0.723	0.86	0.53	0.01	0.102	0.548	0.68	0.828	0.857

** - Less than 9 observations ## - Computed with 50% or 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 BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	13	9.	9.654	17.	2.	29.474	5.429	2.6	4.25	15.5	16.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	13	4080.	3636.692	5510.	587.	2676363.897	1635.96	928.2	2300.	5095.	5474.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	12	815.	782.167	886.	591.	10537.242	102.651	600.6	700.	871.75	885.1
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/66-09/16/80	12	156.5	155.5	178.	120.	319.364	17.871	122.1	147.5	169.	177.4
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/66-09/20/78	12	191.	189.583	217.	146.	477.356	21.848	148.7	179.75	206.	216.4
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	01/01/71-08/25/81	12	0.5	0.525	0.7	0.4	0.009	0.097	0.4	0.425	0.6	0.67

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Annual Analysis for 1976 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/01/71-09/20/78	12	0.03	0.043	0.15	0.	0.002	0.049	0.	0.	0.082	0.132
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/23/69-07/28/81	12	0.01	0.02	0.06	0.005	0.	0.019	0.005	0.005	0.035	0.057
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/01/72-09/20/78	12	0.01	0.016	0.05	0.005	0.	0.014	0.005	0.005	0.028	0.044
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-08/25/81	13	280.	271.538	350.	200.	1630.769	40.383	208.	240.	295.	334.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-02/24/81	12	115.	113.25	180.	76.	747.295	27.337	79.9	91.5	127.5	165.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-08/25/81	13	72.	69.923	88.	52.	91.744	9.578	54.	63.5	76.	83.6
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-08/25/81	13	24.	23.154	32.	16.	17.474	4.18	16.8	20.	25.	30.4
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-08/25/81	13	68.	67.615	76.	51.	56.256	7.5	53.4	64.	75.	75.6
00931	SODIUM ADSORPTION RATIO	10/01/66-08/25/81	13	1.8	1.808	2.	1.6	0.014	0.119	1.6	1.75	1.9	1.96
00932	SODIUM, PERCENT	10/01/66-08/25/81	13	35.	35.	37.	30.	3.333	1.826	31.6	34.	36.	37.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-08/25/81	13	3.5	3.431	4.	2.8	0.114	0.338	2.84	3.15	3.6	3.88
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-08/25/81	13	9.	9.154	13.	6.	4.141	2.035	6.	7.5	10.5	12.2
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-08/25/81	13	250.	241.538	310.	180.	1380.769	37.159	184.	215.	270.	298.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-08/25/81	13	0.4	0.4	0.5	0.3	0.003	0.058	0.3	0.4	0.4	0.5
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-08/25/81	13	10.	9.969	11.	8.9	0.659	0.812	8.94	9.15	11.	11.
01046	IRON, DISSOLVED (UG/L AS FE)	12/12/68-09/20/78	13	20.	32.692	100.	5.	873.397	29.553	5.	12.5	45.	92.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/01/71-09/20/78	13 ##	5.	10.769	40.	5.	136.859	11.699	5.	5.	12.5	36.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-08/25/81	12	527.5	519.417	629.	394.	4968.811	70.49	402.4	472.25	576.75	618.5
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-08/25/81	12	5490.	4906.417	8560.	997.	6290228.629	2508.033	1363.9	2477.5	7225.	8230.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-08/25/81	12	0.72	0.708	0.86	0.54	0.009	0.097	0.549	0.645	0.788	0.845

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Annual Analysis for 1977 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	12	6.5	6.542	10.	3.	4.93	2.22	3.3	4.625	8.75	9.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	12	1530.	1943.083	4520.	847.	982384.992	991.153	979.9	1365.	2250.	4064.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	12	912.	920.167	1060.	791.	9286.879	96.368	791.6	836.25	1022.5	1051.
00400	PH (STANDARD UNITS)	10/01/66-09/16/80	2	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/01/66-09/16/80	2	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-09/16/80	2	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/66-09/16/80	12	180.	174.5	190.	153.	138.818	11.782	155.1	163.25	180.	190.
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/66-09/20/78	12	220.	213.083	230.	186.	198.447	14.087	188.7	199.5	220.	230.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	01/01/71-08/25/81	10	0.5	0.52	0.7	0.4	0.011	0.103	0.4	0.4	0.6	0.69
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/01/71-09/20/78	10	0.03	0.039	0.12	0.	0.001	0.032	0.003	0.03	0.038	0.114
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/23/69-07/28/81	12	0.02	0.016	0.03	0.005	0.	0.009	0.005	0.006	0.02	0.03
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/01/72-09/20/78	10	0.01	0.014	0.04	0.005	0.	0.01	0.006	0.01	0.013	0.038
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-08/25/81	12	320.	323.333	360.	270.	1078.788	32.845	273.	295.	360.	360.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-02/24/81	12	145.	150.	180.	120.	545.455	23.355	120.	130.	177.5	180.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-08/25/81	12	83.5	82.333	93.	68.	77.515	8.804	68.6	74.	90.	92.4
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-08/25/81	12	28.	28.75	34.	24.	9.659	3.108	24.3	27.	32.	33.4
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-08/25/81	12	83.5	82.417	94.	71.	80.447	8.969	71.3	74.	91.5	93.4
00931	SODIUM ADSORPTION RATIO	10/01/66-08/25/81	12	2.05	2.	2.2	1.8	0.018	0.135	1.8	1.9	2.1	2.17
00932	SODIUM, PERCENT	10/01/66-08/25/81	12	35.	35.25	37.	33.	1.114	1.055	33.3	35.	36.	36.7
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-08/25/81	12	3.75	3.767	4.3	3.1	0.153	0.392	3.13	3.525	4.175	4.27
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-08/25/81	12	12.5	12.667	19.	9.	7.697	2.774	9.3	10.25	13.75	18.1
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-08/25/81	12	295.	294.167	340.	240.	1208.333	34.761	243.	262.5	327.5	340.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-08/25/81	12	0.5	0.5	0.6	0.4	0.004	0.06	0.4	0.5	0.5	0.6
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-08/25/81	12	11.	10.8	12.	9.6	0.589	0.768	9.72	10.	11.	12.
01046	IRON, DISSOLVED (UG/L AS FE)	12/12/68-09/20/78	12	20.	18.75	50.	5.	227.841	15.094	5.	5.	27.5	47.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/01/71-09/20/78	12 ##	5.	7.917	20.	4.	33.356	5.775	4.3	5.	8.	20.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-08/25/81	12	618.	622.5	695.	523.	3905.182	62.491	527.8	571.	691.	694.4
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-08/25/81	12	2605.	3170.833	6380.	1590.	1758099.242	1325.933	1743.	2212.5	4070.	5777.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-08/25/81	12	0.84	0.846	0.95	0.71	0.007	0.085	0.716	0.775	0.938	0.947

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Annual Analysis for 1978 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	12	6.75	9.333	19.	3.	33.97	5.828	3.	4.25	14.125	18.85
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	12	3630.	4575.833	10900.	2110.	6602062.879	2569.448	2143.	2970.	5992.5	9898.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	12	959.	926.25	1150.	589.	38470.386	196.139	613.9	757.75	1097.5	1147.
00400	PH (STANDARD UNITS)	10/01/66-09/16/80	12	8.	8.033	8.3	7.8	0.026	0.161	7.8	7.925	8.1	8.3
00400	CONVERTED PH (STANDARD UNITS)	10/01/66-09/16/80	12	8.	8.007	8.3	7.8	0.027	0.164	7.8	7.925	8.1	8.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-09/16/80	12	0.01	0.01	0.016	0.005	0.	0.004	0.005	0.008	0.012	0.016
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/66-09/16/80	11	180.	167.273	210.	110.	1281.818	35.802	114.	130.	200.	208.
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/66-09/20/78	9	230.	211.111	250.	140.	1636.111	40.449	140.	170.	240.	250.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	01/01/71-08/25/81	12	0.6	0.519	0.9	0.03	0.051	0.227	0.111	0.4	0.675	0.84
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/01/71-09/20/78	9	0.03	0.047	0.15	0.	0.002	0.043	0.	0.03	0.06	0.15
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/23/69-07/28/81	12	0.02	0.02	0.06	0.005	0.	0.016	0.005	0.006	0.028	0.051
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/01/72-09/20/78	9	0.01	0.016	0.05	0.005	0.	0.014	0.005	0.01	0.02	0.05
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-08/25/81	12	325.	321.667	410.	190.	7087.879	84.19	199.	250.	407.5	410.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-02/24/81	11	180.	160.273	220.	80.	2758.818	52.524	82.6	110.	210.	218.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-08/25/81	12	85.	81.917	110.	50.	413.174	20.327	53.	61.25	100.	107.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-08/25/81	12	28.	28.5	38.	17.	65.182	8.074	17.3	22.25	36.75	38.
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-08/25/81	12	89.	83.5	110.	45.	408.273	20.206	48.9	67.25	100.	107.
00931	SODIUM ADSORPTION RATIO	10/01/66-08/25/81	12	2.1	2.033	2.4	1.4	0.073	0.271	1.49	1.9	2.2	2.34
00932	SODIUM, PERCENT	10/01/66-08/25/81	12	35.5	35.833	38.	33.	2.515	1.586	33.3	35.	37.	38.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-08/25/81	12	4.35	4.033	4.9	2.6	0.632	0.795	2.69	3.225	4.6	4.87
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-08/25/81	12	13.5	12.583	20.	6.	17.902	4.231	6.6	8.25	15.75	19.1
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-08/25/81	12	315.	304.167	390.	170.	6153.788	78.446	179.	242.5	377.5	390.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-08/25/81	12	0.45	0.408	0.6	0.1	0.023	0.151	0.16	0.3	0.5	0.6
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-08/25/81	12	9.7	8.967	11.	0.2	8.488	2.913	2.63	8.65	10.75	11.
01046	IRON, DISSOLVED (UG/L AS FE)	12/12/68-09/20/78	9 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/01/71-09/20/78	9 ##	5.	6.889	20.	5.	24.611	4.961	5.	5.	6.	20.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-08/25/81	11	734.	630.455	792.	371.	24124.273	155.32	384.2	493.	760.	787.6
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-08/25/81	11	6320.	7590.909	16900.	3730.	18708209.091	4325.299	3862.	4400.	7470.	16540.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-08/25/81	11	1.	0.856	1.08	0.5	0.046	0.213	0.518	0.67	1.03	1.074

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Annual Analysis for 1979 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	11	7.	6.818	14.	2.	20.514	4.529	2.1	3.	12.	13.8
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/69-09/03/96	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	11	3070.	3100.909	4670.	1980.	550729.091	742.111	2016.	2600.	3480.	4438.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	10	885.5	898.	972.	834.	1990.222	44.612	837.1	865.75	940.5	970.2
00400	PH (STANDARD UNITS)	10/01/66-09/16/80	8	8.	8.063	8.4	7.8	0.046	0.213	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/01/66-09/16/80	8	8.	8.02	8.4	7.8	0.048	0.218	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-09/16/80	8	0.01	0.01	0.016	0.004	0.	0.004	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/66-09/16/80	11	160.	159.091	180.	140.	109.091	10.445	142.	150.	160.	178.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	01/01/71-08/25/81	11	0.4	0.455	0.7	0.2	0.023	0.151	0.22	0.4	0.5	0.7
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/23/69-07/28/81	10	0.01	0.01	0.02	0.	0.	0.005	0.001	0.009	0.01	0.019
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-08/25/81	11	300.	299.091	330.	270.	389.091	19.725	270.	290.	320.	328.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-02/24/81	11	140.	140.	170.	110.	420.	20.494	112.	120.	160.	170.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-08/25/81	11	75.	75.909	87.	68.	32.091	5.665	68.2	70.	80.	85.6
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-08/25/81	11	27.	26.727	29.	24.	2.218	1.489	24.2	26.	28.	28.8
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-08/25/81	11	79.	80.727	92.	73.	46.618	6.828	73.2	74.	89.	91.6
00931	SODIUM ADSORPTION RATIO	10/01/66-08/25/81	11	2.	2.027	2.3	1.8	0.028	0.168	1.82	1.9	2.2	2.3
00932	SODIUM, PERCENT	10/01/66-08/25/81	11	36.	36.545	40.	34.	3.673	1.916	34.	35.	38.	39.8
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-08/25/81	11	3.6	3.618	4.1	2.2	0.284	0.533	2.44	3.5	4.	4.08
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-08/25/81	11	13.	13.	17.	10.	7.4	2.72	10.	10.	16.	16.8
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-08/25/81	11	290.	292.727	320.	270.	341.818	18.488	270.	270.	310.	320.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-08/25/81	11	0.4	0.409	0.5	0.3	0.003	0.054	0.32	0.4	0.4	0.5
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-08/25/81	11	10.	10.155	12.	8.1	1.517	1.232	8.28	9.2	11.	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 1979 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-08/25/81	11	602.	600.909	647.	557.	937.491	30.618	557.4	570.	623.	644.8
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-08/25/81	11	5070.	5051.818	7860.	3140.	1784376.364	1335.806	3162.	4160.	5890.	7468.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-08/25/81	11	0.82	0.819	0.88	0.76	0.002	0.042	0.76	0.78	0.85	0.878

** - Less than 9 observations ## - Computed with 50% or 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 BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	12	7.25	8.625	17.5	3.	26.369	5.135	3.	5.	12.	17.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/69-09/03/96	12	16.	15.208	33.	-2.	104.248	10.21	4.6	5.5	20.75	31.65
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	12	3075.	3028.333	4270.	1510.	512469.697	715.87	1786.	2630.	3385.	4162.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	12	998.5	970.	1180.	790.	14026.364	118.433	796.9	864.	1047.5	1153.
00400	PH (STANDARD UNITS)	10/01/66-09/16/80	8	8.15	8.138	8.2	8.	0.006	0.074	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/01/66-09/16/80	8	8.147	8.132	8.2	8.	0.006	0.075	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-09/16/80	8	0.007	0.007	0.01	0.006	0.	0.001	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/66-09/16/80	9	170.	172.222	190.	160.	169.444	13.017	160.	160.	185.	190.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	01/01/71-08/25/81	12	0.6	0.8	2.2	0.4	0.351	0.592	0.43	0.5	0.675	2.11
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/23/69-07/28/81	12	0.02	0.024	0.05	0.01	0.	0.013	0.01	0.013	0.038	0.047
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-08/25/81	11	290.	308.182	370.	260.	1356.364	36.829	262.	270.	340.	364.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-02/24/81	11	130.	140.636	210.	97.	1134.455	33.682	99.6	110.	160.	204.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-08/25/81	11	73.	77.455	92.	65.	85.273	9.234	65.6	69.	86.	90.8
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-08/25/81	11	27.	27.636	33.	23.	12.455	3.529	23.	24.	31.	32.6
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-08/25/81	11	87.	85.	95.	74.	53.8	7.335	74.4	77.	92.	94.4
00931	SODIUM ADSORPTION RATIO	10/01/66-08/25/81	11	2.1	2.127	2.2	2.	0.006	0.079	2.	2.1	2.2	2.2
00932	SODIUM, PERCENT	10/01/66-08/25/81	11	37.	37.455	39.	36.	1.073	1.036	36.	37.	38.	39.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-08/25/81	12	4.25	4.167	4.5	3.7	0.061	0.246	3.73	3.95	4.3	4.47
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-08/25/81	12	12.	11.667	15.	3.	10.424	3.229	5.1	11.	14.5	15.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-08/25/81	12	310.	304.167	400.	240.	2244.697	47.378	246.	260.	337.5	385.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-08/25/81	12	0.5	0.458	0.5	0.3	0.006	0.079	0.3	0.425	0.5	0.5
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-08/25/81	11	9.8	9.518	11.	8.4	0.664	0.815	8.4	8.5	10.	10.8
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-08/25/81	11	621.	622.273	735.	539.	4665.418	68.304	541.6	556.	677.	727.6
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-08/25/81	11	4930.	4871.818	6910.	2850.	1246796.364	1116.6	3018.	4080.	5830.	6710.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-08/25/81	11	0.84	0.845	1.	0.73	0.009	0.093	0.734	0.76	0.92	0.99

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Annual Analysis for 1981 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	9	5.	7.111	15.5	4.	19.361	4.4	4.	4.5	10.	15.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/69-09/03/96	9	12.	14.611	24.	9.	32.736	5.722	9.	10.25	21.	24.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	9	1930.	2904.444	9990.	1010.	7551652.778	2748.027	1010.	1455.	2995.	9990.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	9	960.	950.333	1070.	844.	6310.	79.436	844.	874.	1020.	1070.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	01/01/71-08/25/81	9	0.5	0.457	0.7	0.01	0.034	0.185	0.01	0.45	0.5	0.7
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/23/69-07/28/81	8	0.02	0.02	0.04	0.01	0.	0.011	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-08/25/81	9	320.	316.667	360.	270.	1025.	32.016	270.	290.	350.	360.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-02/24/81	2	125.	125.	140.	110.	450.	21.213	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-08/25/81	9	81.	80.889	93.	70.	61.361	7.833	70.	74.	88.	93.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-08/25/81	9	29.	28.333	32.	24.	8.75	2.958	24.	26.	31.5	32.
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-08/25/81	9	86.	85.111	93.	79.	25.111	5.011	79.	79.5	89.	93.
00931	SODIUM ADSORPTION RATIO	10/01/66-08/25/81	9	2.1	2.1	2.3	2.	0.01	0.1	2.	2.	2.15	2.3
00932	SODIUM, PERCENT	10/01/66-08/25/81	9	36.	36.444	38.	35.	1.778	1.333	35.	35.	38.	38.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-08/25/81	9	3.6	3.711	4.2	3.4	0.066	0.257	3.4	3.5	3.9	4.2
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-08/25/81	9	12.	13.333	24.	11.	17.25	4.153	11.	11.	13.5	24.

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Annual Analysis for 1981 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-08/25/81	9	320.	307.778	370.	270.	1094.444	33.082	270.	275.	325.	370.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-08/25/81	9	0.4	0.444	0.5	0.4	0.003	0.053	0.4	0.4	0.5	0.5
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-08/25/81	9	9.5	9.456	9.9	9.1	0.063	0.251	9.1	9.2	9.6	9.9
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-08/25/81	9	637.	629.222	684.	561.	2419.444	49.188	561.	580.5	682.	684.
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-08/25/81	9	3340.	4937.778	17600.	1850.	23573969.444	4855.303	1850.	2440.	4690.	17600.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-08/25/81	9	0.87	0.856	0.93	0.76	0.004	0.067	0.76	0.79	0.925	0.93

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Annual Analysis for 1982 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	5	12.	11.	17.	6.	20.5	4.528	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/69-09/03/96	5	14.5	13.5	24.	-1.	83.5	9.138	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	5	2730.	3580.	5220.	2320.	1933050.	1390.342	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	5	763.	736.6	950.	502.	44139.8	210.095	**	**	**	**

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Annual Analysis for 1983 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	9	13.	12.833	21.5	3.	58.062	7.62	3.	5.25	20.25	21.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/69-09/03/96	8	16.	15.313	33.5	-4.5	136.424	11.68	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	9	3770.	4063.333	6020.	2740.	1040475.	1020.037	2740.	3330.	4855.	6020.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	9	765.	725.444	883.	570.	11758.778	108.438	570.	610.5	808.5	883.

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Annual Analysis for 1984 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	6	6.	7.583	13.5	3.5	20.642	4.543	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/69-09/03/96	6	13.25	13.	23.5	3.	67.7	8.228	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	7	3880.	4054.286	6100.	2910.	1259528.571	1122.287	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	7	780.	768.286	865.	650.	6448.905	80.305	**	**	**	**

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Annual Analysis for 1985 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	9	7.5	6.944	11.	1.5	9.528	3.087	1.5	4.5	9.5	11.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/69-09/03/96	9	12.5	9.778	28.	-7.	134.819	11.611	2.	0.25	18.25	28.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	9	2140.	2254.667	3340.	332.	870266.	932.88	332.	1835.	3020.	3340.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	9	850.	733.222	1020.	285.	66167.694	257.231	285.	466.5	913.	1020.

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Annual Analysis for 1986 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	4	11.5	11.25	18.	4.	49.417	7.03	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/69-09/03/96	4	18.	17.	26.5	5.5	80.833	8.991	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	6	3740.	3808.333	6020.	2360.	1614576.667	1270.66	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	6	900.	839.	1030.	580.	45558.	213.443	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	6	5.	6.25	11.5	3.5	8.975	2.996	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/69-09/03/96	6	16.5	6.917	23.5	-10.	193.442	13.908	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	8	2810.	2676.25	3900.	1540.	587769.643	766.661	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	8	832.5	790.	975.	255.	49628.571	222.775	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	7	9.	7.857	12.5	4.	10.226	3.198	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/69-09/03/96	7	14.5	15.571	27.5	2.	83.619	9.144	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	7	1870.	1924.286	2490.	1390.	149261.905	386.344	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	7	955.	968.571	1140.	850.	7705.952	87.784	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	7	5.	6.	11.	3.	7.333	2.708	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/69-09/03/96	4	5.25	8.375	20.	3.	62.229	7.889	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	7	1760.	1975.714	3160.	1560.	297161.905	545.126	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	7	1030.	993.571	1090.	830.	10705.952	103.47	**	**	**	**

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Annual Analysis for 1990 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	10	6.25	7.35	13.5	2.	21.558	4.643	2.05	2.875	12.625	13.45
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/69-09/03/96	6	13.5	14.	20.	9.	21.2	4.604	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	10	2225.	2433.	3460.	1580.	397490.	630.468	1617.	1987.5	3140.	3446.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	10	895.	858.7	995.	600.	15448.011	124.29	610.	775.	947.75	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 1991 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	9	6.	9.278	17.	3.	37.507	6.124	3.	3.75	15.75	17.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/69-09/03/96	4	10.5	11.5	19.	6.	35.5	5.958	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	9	2780.	3830.	12100.	1920.	10192275.	3192.534	1920.	2205.	3890.	12100.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	9	830.	813.111	990.	564.	25441.111	159.503	564.	669.	962.5	990.

** - Less than 9 observations ## - Computed with 50% or 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 BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	6	7.	7.667	13.	3.5	14.967	3.869	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/69-09/03/96	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	6	2545.	2601.667	3260.	1920.	263856.667	513.67	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	6	787.5	770.833	915.	600.	15354.167	123.912	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	6	6.5	7.25	13.	3.	17.675	4.204	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/69-09/03/96	4	7.75	7.5	10.5	4.	7.167	2.677	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	7	3090.	3670.	6640.	2020.	2401333.333	1549.624	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	7	892.	880.286	1080.	540.	30082.238	173.442	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	8	6.25	7.563	14.	4.5	11.888	3.448	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/69-09/03/96	8	18.75	16.563	23.	2.	48.817	6.987	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	8	2135.	2081.25	3200.	1220.	374898.214	612.289	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	8	902.5	901.75	990.	830.	4004.786	63.283	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	11	5.	7.909	17.	3.	24.991	4.999	3.3	4.5	14.	16.6
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/69-09/03/96	11	16.	9.909	22.	-10.	122.691	11.077	1.8	-3.	20.	-3.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	11	2600.	3850.909	11900.	1660.	9245209.091	3040.594	1662.	1800.	5370.	10670.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	11	844.	866.182	1110.	615.	35386.764	188.114	616.6	630.	1050.	1098.

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

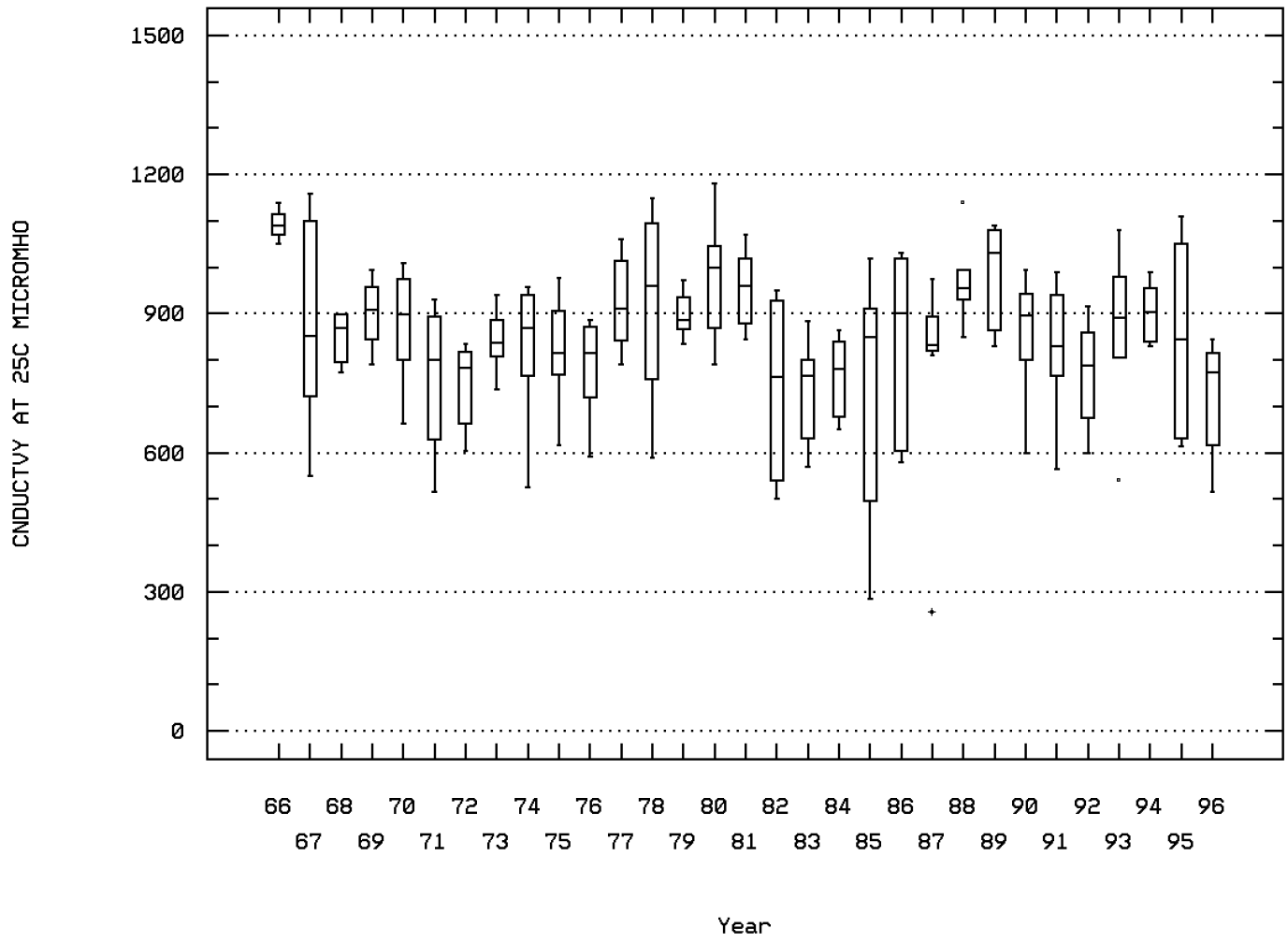
Annual Analysis for 1996 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	9	6.	10.	19.5	4.	47.938	6.924	4.	4.25	18.5	19.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/69-09/03/96	9	15.	15.667	25.	3.	78.	8.832	3.	7.5	24.	25.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	9	2930.	3978.889	6950.	2010.	3038686.111	1743.183	2010.	2700.	5705.	6950.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	9	773.	721.889	845.	516.	16098.111	126.878	516.	584.	822.5	845.

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

Station: BICA0180 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



BIGHORN RIVER NEAR ST. XAVIER, MT.

Seasonal Analysis for Season #1: 8/10 to 4/14 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	173	6.5	7.996	20.5	1.	25.821	5.081	3.	3.75	12.25	16.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/69-09/03/96	80	10.5	9.319	28.	-10.	71.755	8.471	3.1	7.5	16.	21.9
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/66-09/10/74	118	3630.	3595.72	6700.	358.	1292355.981	1136.818	2211.5	2830.	4162.5	5080.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	143	2930.	2977.497	7780.	332.	1293846.209	1137.474	1616.	2200.	3620.	4464.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	231	846.	838.857	1160.	255.	22666.253	150.553	624.4	773.	936.	1020.
00400	PH (STANDARD UNITS)	10/01/66-09/16/80	110	8.	7.938	8.4	7.3	0.066	0.256	7.6	7.8	8.1	8.2
00400	CONVERTED PH (STANDARD UNITS)	10/01/66-09/16/80	110	8.	7.856	8.4	7.3	0.072	0.269	7.6	7.8	8.1	8.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-09/16/80	110	0.01	0.014	0.05	0.004	0.	0.01	0.006	0.008	0.016	0.025
00405	CARBON DIOXIDE (MG/L AS CO2)	09/01/72-09/20/78	28	2.95	4.136	16.	1.3	9.931	3.151	2.09	2.425	5.125	7.23
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/66-09/16/80	140	160.5	161.114	216.	107.	384.188	19.601	136.3	150.25	174.	184.
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/66-09/20/78	122	197.	196.59	263.	130.	606.872	24.635	163.2	183.75	215.	225.7
00445	CARBONATE ION (MG/L AS CO3)	10/01/66-10/01/74	88	0.	0.091	6.	0.	0.451	0.672	0.	0.	0.	0.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	01/01/71-08/25/81	99	0.4	0.43	2.2	0.	0.082	0.287	0.2	0.3	0.5	0.6
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/01/71-09/20/78	75	0.03	0.032	0.15	0.	0.001	0.037	0.	0.	0.03	0.09
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/23/69-07/28/81	92	0.02	0.03	0.47	0.	0.002	0.05	0.005	0.01	0.04	0.05
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/01/72-09/20/78	60	0.01	0.013	0.05	0.	0.	0.012	0.005	0.005	0.01	0.03
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-08/25/81	150	280.	284.387	410.	160.	2384.668	48.833	230.2	260.	310.	350.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-02/24/81	142	120.	121.19	210.	45.	1069.531	32.704	83.	100.	140.	173.5
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-08/25/81	146	72.5	72.726	100.	43.	131.911	11.485	60.7	65.75	80.	88.3
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-08/25/81	146	24.	24.712	38.	13.	25.434	5.043	19.4	22.	27.	32.
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-08/25/81	146	76.5	77.473	118.	42.	216.113	14.701	59.	69.75	84.	99.3
00931	SODIUM ADSORPTION RATIO	10/01/66-08/25/81	146	2.	2.003	2.6	1.4	0.059	0.243	1.7	1.8	2.1	2.33
00932	SODIUM, PERCENT	10/01/66-08/25/81	146	37.	36.849	42.	30.	3.77	1.942	34.	36.	38.	39.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-08/25/81	147	3.7	3.852	22.	1.3	2.603	1.613	3.	3.5	4.1	4.4
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-08/25/81	146	10.	10.603	20.	5.	7.151	2.674	7.7	9.	12.	14.3
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-08/25/81	150	270.	270.56	394.	140.	2891.698	53.775	200.	240.	303.	339.2
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-08/25/81	146	0.4	0.423	0.8	0.1	0.01	0.1	0.3	0.4	0.5	0.5
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-08/25/81	146	11.	10.578	14.	0.2	1.706	1.306	9.3	10.	11.	12.
01020	BORON, DISSOLVED (UG/L AS B)	10/01/66-06/06/74	57	120.	122.807	300.	60.	1466.051	38.289	82.	100.5	140.	170.
01046	IRON, DISSOLVED (UG/L AS FE)	12/12/68-09/20/78	82	10.	25.524	210.	0.	1496.549	38.685	5.	5.	30.	74.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/01/71-09/20/78	75 ##	5.	11.613	160.	0.	613.348	24.766	0.	5.	5.	27.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-08/25/81	132	561.	562.197	792.	327.	6932.007	83.259	451.6	512.5	613.	668.2
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-08/25/81	148	5385.	5133.899	9609.99	511.	3398702.636	1843.557	2528.	3700.	6247.493	7477.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-08/25/81	148	0.78	0.79	1.15	0.44	0.02	0.142	0.627	0.702	0.867	0.951

** - Less than 9 observations ## - Computed 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: 4/15 to 6/19 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	46	5.5	6.076	21.5	2.	8.722	2.953	3.35	4.5	7.	8.65
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/69-09/03/96	23	18.	16.696	25.	6.	22.699	4.764	7.6	14.	20.	21.
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/66-09/10/74	30	5091.5	5107.967	10700.	1670.	6239076.999	2497.814	1751.	2567.5	6507.	8167.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	38	2760.	3518.421	9990.	1400.	3986510.953	1996.625	1501.	1987.5	4737.5	6273.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	57	939.	944.14	1180.	740.	9120.373	95.501	817.8	874.5	1020.	1074.
00400	PH (STANDARD UNITS)	10/01/66-09/16/80	29	8.	7.886	8.5	6.6	0.121	0.348	7.5	7.8	8.1	8.2
00400	CONVERTED PH (STANDARD UNITS)	10/01/66-09/16/80	29	8.	7.656	8.5	6.6	0.176	0.419	7.5	7.8	8.1	8.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-09/16/80	29	0.01	0.022	0.251	0.003	0.002	0.045	0.006	0.008	0.016	0.032
00405	CARBON DIOXIDE (MG/L AS CO2)	09/01/72-09/20/78	9	3.8	4.833	14.	1.7	13.338	3.652	1.7	2.75	5.3	14.
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/66-09/16/80	36	180.5	180.528	207.	141.	220.885	14.862	159.1	174.25	190.	200.
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/66-09/20/78	31	220.	220.226	252.	172.	314.647	17.738	192.	213.	230.	243.4
00445	CARBONATE ION (MG/L AS CO3)	10/01/66-10/01/74	22	0.	0.136	3.	0.	0.409	0.64	0.	0.	0.	0.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	01/01/71-08/25/81	28	0.4	0.38	0.9	0.01	0.046	0.215	0.094	0.2	0.5	0.62
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/01/71-09/20/78	21	0.03	0.024	0.15	0.	0.001	0.035	0.	0.	0.03	0.06
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/23/69-07/28/81	26	0.02	0.023	0.07	0.005	0.	0.019	0.005	0.01	0.025	0.053
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/01/72-09/20/78	18	0.005	0.01	0.05	0.	0.	0.012	0.	0.005	0.01	0.023
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-08/25/81	40	320.	324.1	410.	250.	1393.221	37.326	270.	300.	348.	379.4

** - 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: 4/15 to 6/19 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-02/24/81	34	130.	143.	220.	90.	806.303	28.395	110.	128.25	160.75	180.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-08/25/81	38	81.	82.395	110.	62.	94.083	9.7	70.8	75.75	90.	95.1
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-08/25/81	38	28.	28.474	37.	17.	15.067	3.882	23.	26.	31.25	34.
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-08/25/81	38	84.5	85.526	108.	70.	98.797	9.94	71.9	78.	90.5	100.6
00931	SODIUM ADSORPTION RATIO	10/01/66-08/25/81	38	2.1	2.084	2.5	1.8	0.026	0.162	1.9	2.	2.2	2.31
00932	SODIUM, PERCENT	10/01/66-08/25/81	38	35.5	36.053	41.	34.	2.592	1.61	34.	35.	37.	38.1
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-08/25/81	39	4.1	4.031	5.1	1.7	0.415	0.644	3.6	3.8	4.5	4.6
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-08/25/81	39	13.	13.231	24.	10.	5.866	2.422	11.	12.	14.	16.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-08/25/81	41	300.	301.707	373.	230.	1319.012	36.318	250.	279.	320.	358.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-08/25/81	39	0.5	0.456	0.7	0.2	0.009	0.097	0.3	0.4	0.5	0.6
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-08/25/81	38	9.5	9.789	16.	8.1	1.864	1.365	8.58	9.	10.	11.
01020	BORON, DISSOLVED (UG/L AS B)	10/01/66-06/06/74	14	133.5	131.	179.	70.	1083.077	32.91	80.	100.	160.	173.5
01046	IRON, DISSOLVED (UG/L AS FE)	12/12/68-09/20/78	24	10.	18.625	109.	0.	579.027	24.063	5.	5.	20.	55.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/01/71-09/20/78	22 ##	5.	11.5	60.	0.	236.167	15.368	0.	5.	10.75	40.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-08/25/81	34	627.5	626.294	755.	502.	3708.638	60.899	538.5	582.75	661.5	716.
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-08/25/81	39	7419.99	7438.977	17600.	2520.	14091027.71	3753.802	2850.	4160.	10300.	12700.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-08/25/81	39	0.87	0.878	1.1	0.68	0.01	0.099	0.74	0.8	0.94	1.03

** - 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

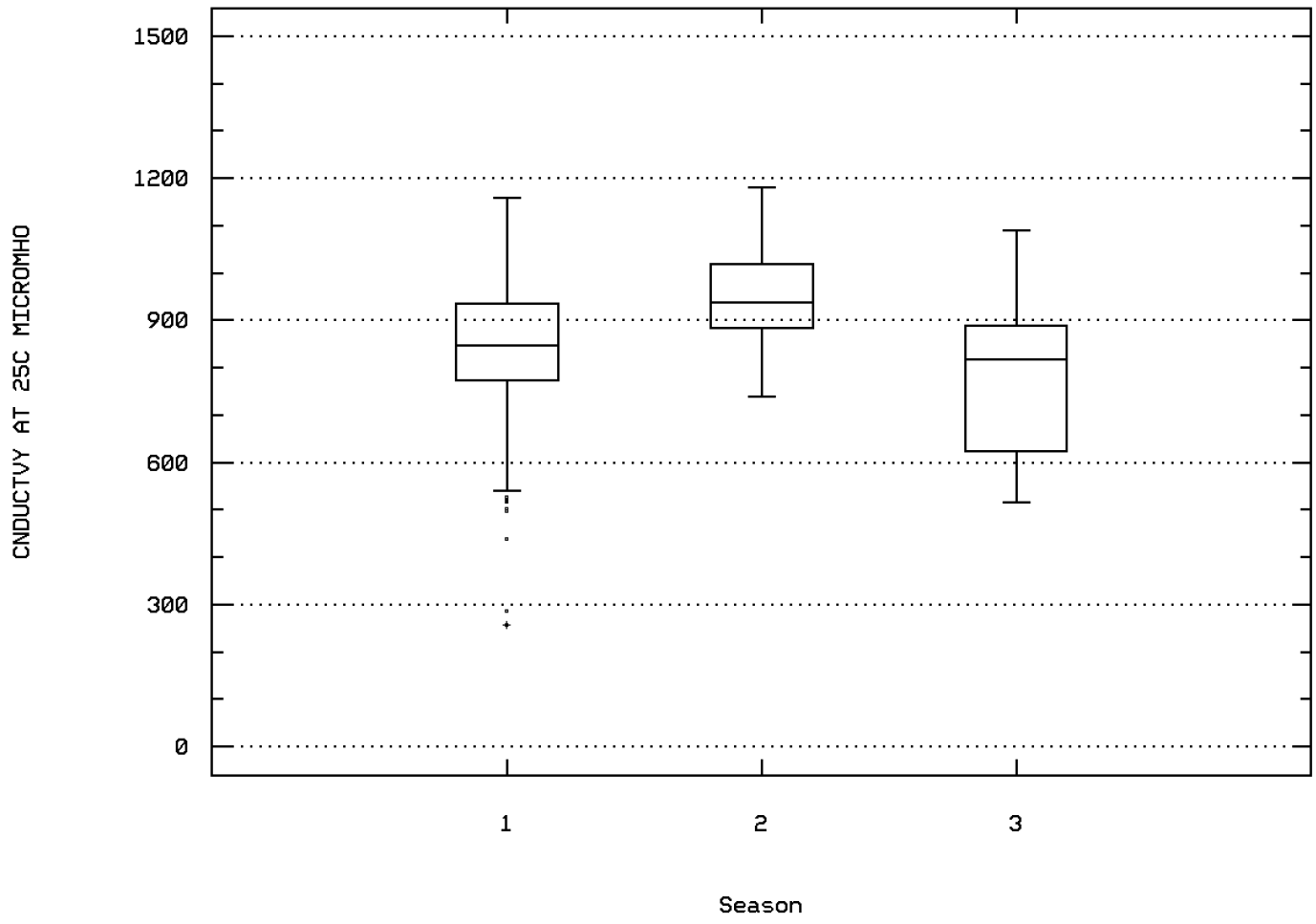
Seasonal Analysis for Season #3: 6/20 to 8/09 - Station BICA0180

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/67-09/03/96	39	13.	12.59	20.	6.	18.117	4.256	7.	8.	16.5	18.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/69-09/03/96	17	24.	25.529	33.5	20.	17.171	4.144	20.8	22.5	28.25	33.1
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/66-09/10/74	27	4190.	5737.778	20240.	1690.	20917828.795	4573.601	2574.	3080.	6601.	12298.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/02/73-09/03/96	33	3070.	4565.455	12100.	1500.	9311525.568	3051.479	1656.	2110.	6205.	9712.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/66-09/03/96	53	817.	783.585	1090.	516.	23341.671	152.78	589.	620.	893.	980.
00400	PH (STANDARD UNITS)	10/01/66-09/16/80	23	7.9	7.848	8.4	7.	0.11	0.331	7.3	7.7	8.1	8.2
00400	CONVERTED PH (STANDARD UNITS)	10/01/66-09/16/80	23	7.9	7.701	8.4	7.	0.133	0.364	7.3	7.7	8.1	8.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/66-09/16/80	23	0.013	0.02	0.1	0.004	0.	0.022	0.006	0.008	0.02	0.05
00405	CARBON DIOXIDE (MG/L AS CO2)	09/01/72-09/20/78	4	3.05	3.125	4.2	2.2	0.689	0.83	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/01/66-09/16/80	32	152.5	149.531	184.	107.	564.58	23.761	114.4	127.5	169.75	180.
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/66-09/20/78	28	180.5	178.571	220.	130.	802.921	28.336	139.7	153.5	204.5	219.1
00445	CARBONATE ION (MG/L AS CO3)	10/01/66-10/01/74	18	0.	0.056	1.	0.	0.056	0.236	0.	0.	0.	0.1
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	01/01/71-08/25/81	22	0.3	0.313	0.7	0.	0.034	0.184	0.093	0.2	0.425	0.6
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/01/71-09/20/78	18	0.03	0.032	0.09	0.	0.001	0.033	0.	0.	0.06	0.09
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/23/69-07/28/81	20	0.01	0.018	0.06	0.	0.	0.014	0.005	0.01	0.02	0.039
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/01/72-09/20/78	14	0.01	0.013	0.03	0.	0.	0.011	0.	0.004	0.02	0.03
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/66-08/25/81	33	270.	256.606	370.	170.	2735.059	52.298	184.	207.	300.	316.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/66-02/24/81	31	110.	105.065	210.	53.	1158.196	34.032	64.4	74.	126.	140.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/66-08/25/81	32	69.	66.094	92.	45.	162.023	12.729	49.3	53.75	76.75	81.8
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/66-08/25/81	32	23.	21.906	33.	13.	26.604	5.158	15.	17.	26.	27.7
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/66-08/25/81	32	70.5	68.313	95.	40.	227.964	15.098	48.	56.	80.	88.7
00931	SODIUM ADSORPTION RATIO	10/01/66-08/25/81	32	1.85	1.863	2.3	1.4	0.071	0.266	1.5	1.625	2.1	2.2
00932	SODIUM, PERCENT	10/01/66-08/25/81	32	36.	36.188	41.	32.	5.383	2.32	33.	34.25	37.75	39.7
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/66-08/25/81	32	3.55	3.475	4.5	2.	0.405	0.637	2.53	2.95	3.975	4.27
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/66-08/25/81	32	9.5	8.969	13.	3.	7.064	2.658	6.	7.	11.	12.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/66-08/25/81	33	240.	237.242	400.	140.	3224.002	56.78	164.	190.	280.	298.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/66-08/25/81	32	0.4	0.413	0.8	0.1	0.022	0.15	0.3	0.3	0.5	0.64
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/01/66-08/25/81	32	9.2	9.084	11.	6.	1.381	1.175	7.42	8.425	9.875	10.7
01020	BORON, DISSOLVED (UG/L AS B)	10/01/66-06/06/74	8	98.5	93.25	111.	60.	333.643	18.266	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	12/12/68-09/20/78	20	10.	26.25	140.	5.	1239.145	35.201	5.	6.25	27.5	96.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/01/71-09/20/78	20 ##	5.	6.95	40.	0.	100.682	10.034	0.	1.	5.	27.8
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/01/67-08/25/81	29	530.	509.897	735.	322.	11029.596	105.022	365.	417.5	586.	634.
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/66-08/25/81	33	5799.99	7750.612	33120.1	2510.	44953947.771	6704.771	2602.	4190.	7845.	16820.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/66-08/25/81	33	0.72	0.7	1.	0.44	0.021	0.144	0.5	0.57	0.815	0.87

** - Less than 9 observations ## - Computed 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: BICA0180 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



BIGHORN RIVER NEAR ST. XAVIER, MT.

Station Inventory for Station: BICA0181

NPS Station ID: BICA0181
Location: BIGHORN RIVER NEAR ST. XAVIER
Station Type: /TYPA/AMBNT/STREAM
RMI-Indexes:
RMI-Miles:
HUC: 10080015
Major Basin: MISSOURI RIVER
Minor Basin: YELLOWSTONE RIVER
RF1 Index: 10080015
RF3 Index: 10080015058300.00
Description:
CROW 208 WQ PROGRAM

LAT/LON: 45.317226/-107.915282
Depth of Water: 0
Elevation: 0
RF1 Mile Point: 0.000
RF3 Mile Point: 0.54

Agency: 21MTHDWQ
FIPS State/County: 30003 MONTANA/BIG HORN
STORET Station ID(s): 2266BI01
Within Park Boundary: Yes
Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 0.00
Distance from RF3: 0.08

Date Created: 10/12/85
On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: BICA0181

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/11/77-06/07/77	3	4.	4.333	6.	3.	2.333	1.528	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/01/76-07/06/77	6	3010.	3198.333	5640.	1380.	3730496.667	1931.449	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/01/76-07/06/77	5	890.	838.	1020.	540.	34120.	184.716	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/01/76-07/06/77	5	11.7	11.62	13.7	8.9	3.097	1.76	**	**	**	**
00400	PH (STANDARD UNITS)	07/01/76-07/06/77	5	7.8	7.83	8.2	7.5	0.062	0.249	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/01/76-07/06/77	5	7.8	7.776	8.2	7.5	0.066	0.256	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/01/76-07/06/77	5	0.016	0.017	0.032	0.006	0.	0.009	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/01/76-07/01/76	1	152.	152.	152.	152.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/09/76-07/06/77	5	8.	13.	34.	4.	146.	12.083	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/01/76-07/01/76	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/01/76-07/01/76	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/01/76-07/01/76	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/01/76-07/01/76	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	10/24/76-10/24/76	1	116.	116.	116.	116.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	10/24/76-10/24/76	1	2.064	2.064	2.064	2.064	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			116.								
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	10/24/76-10/24/76	1	180.	180.	180.	180.	0.	0.	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	10/24/76-10/24/76	1	2.255	2.255	2.255	2.255	0.	0.	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			180.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/24/76-10/24/76	1	56.	56.	56.	56.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/24/76-10/24/76	1	1.748	1.748	1.748	1.748	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			56.								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/01/76-07/01/76	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: BICA0181

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	5	0	0.00	1	0	0.00	2	0	0.00	2	0	0.00			
00400	PH	Fresh Chronic	9.	5	0	0.00	1	0	0.00	2	0	0.00	2	0	0.00			
		Other-Lo Lim.	6.5	5	0	0.00	1	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

EPA Water Quality Criteria Analysis for Station: BICA0181

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	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									
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0182

NPS Station ID: BICA0182
LAT/LON: 45.317642/-107.912921
Agency: 11NPSWRD
Date Created: 02/07/98
Location: BIGHORN RIVER NEAR FORT SMITH RUINS
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_USGS_BIGRI/06287000
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIG HORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON THE BIGHORN RIVER AT U.S. GEOLOGICAL SURVEY GAGING STATION 06287000 LOCATED APPROXIMATELY 0.4 MILES DOWNSTREAM FROM THE YELLOWTAIL AFTERBAY DAM. SAMPLES FOR THIS SITE WERE COLLECTED IN 1967 AND 1968 BY THE U.S. GEOLOGICAL SURVEY. THE RESULTS ARE PUBLISHED IN THE USGS-WRD ADMINISTRATIVE REPORT "WATER-SUPPLY POSSIBILITIES FROM SPRINGS FOR PRETTY EAGLE AND OK-A-BEH SITES; BIGHORN CANYON NATIONAL RECREATION AREA; MONTANA" (MAY 1970) BY R. D. FELTIS. FOR MORE INFROMATION CONTACT CHIEF OF RESOURCES AT BIGHORN CANYON NATIONAL RECREATION AREA; P.O. BOX 7458; FORT SMITH MONTANA 59035. TEL (406) 666-2412. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	03/06/68-09/02/68	3	52.	50.333	59.	40.	92.333	9.609	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	03/06/68-09/02/68	3	5.	4.667	5.	4.	0.333	0.577	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/06/68-09/02/68	3	855.	812.	921.	660.	18417.	135.709	**	**	**	**
00400	PH (STANDARD UNITS)	03/06/68-09/02/68	3	8.1	7.933	8.1	7.6	0.083	0.289	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/06/68-09/02/68	3	8.1	7.864	8.1	7.6	0.09	0.301	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/06/68-09/02/68	3	0.008	0.014	0.025	0.008	0.	0.01	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/06/68-09/02/68	3	171.	156.667	173.	126.	706.333	26.577	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	03/06/68-09/02/68	3	209.	191.333	212.	153.	1104.333	33.232	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	03/06/68-09/02/68	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/06/68-09/02/68	3	283.	268.	311.	210.	2719.	52.144	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/06/68-09/02/68	3	111.	110.667	137.	84.	702.333	26.502	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/06/68-09/02/68	3	72.	69.	80.	55.	163.	12.767	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/06/68-09/02/68	3	25.	23.333	27.	18.	22.333	4.726	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	03/06/68-09/02/68	3	80.	75.333	88.	58.	241.333	15.535	**	**	**	**
00931	SODIUM ADSORPTION RATIO	03/06/68-09/02/68	3	2.1	2.	2.2	1.7	0.07	0.265	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/06/68-09/02/68	3	3.5	3.533	3.9	3.2	0.123	0.351	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	03/06/68-09/02/68	3	11.	9.667	11.	7.	5.333	2.309	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/06/68-09/02/68	3	268.	252.333	291.	198.	2346.333	48.439	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/06/68-09/02/68	3	0.4	0.533	0.8	0.4	0.053	0.231	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/06/68-09/02/68	3	10.	10.233	11.	9.7	0.463	0.681	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	03/06/68-09/02/68	3	0.09	0.083	0.1	0.06	0.	0.021	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/06/68-09/02/68	3	603.	564.667	634.	457.	8934.333	94.522	**	**	**	**

** - Less than 9 observations ## - 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: BICA0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	03/06/68-09/02/68	3	576.	539.667	617.	426.	10110.333	100.55	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/06/68-09/02/68	3	1.1	0.967	1.1	0.7	0.053	0.231	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0182

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	3	0	0.00	2	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	3	0	0.00	2	0	0.00	1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	250.	3	0	0.00	2	0	0.00	1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	2	0.67	2	1	0.50	1	1	1.00						
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	3	0	0.00	2	0	0.00	1	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	3	0	0.00	2	0	0.00	1	0	0.00						

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

Station Inventory for Station: BICA0183

NPS Station ID: BICA0183
LAT/LON: 45.318115/-108.091892
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38087
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_004 /1037455
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE GRAPEVINE DOME MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0183

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	1	690.	690.	690.	690.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	01/20/79-01/20/79	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/20/79-01/20/79	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/20/79-01/20/79	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	1 ##	27.5	27.5	27.5	27.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	1	64.	64.	64.	64.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	1	1467.	1467.	1467.	1467.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	1	31.	31.	31.	31.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	1	0.72	0.72	0.72	0.72	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0183

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	0 &	0	0.00												
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0184

NPS Station ID: BICA0184
LAT/LON: 45.319726/-107.909727
Agency: 112WRD
Date Created: 04/26/97
Location: BIGHORN RIVER NR FORT SMITH
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 451911107543501
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:

Parameter Inventory for Station: BICA0184

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/11/97-02/11/97	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/11/97-02/11/97	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	02/11/97-02/11/97	1	4050.	4050.	4050.	4050.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/97-02/11/97	1	777.	777.	777.	777.	0.	0.	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	02/11/97-02/11/97	1	58.	58.	58.	58.	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	02/11/97-02/11/97	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

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

Station Inventory for Station: BICA0185

NPS Station ID: BICA0185
LAT/LON: 45.327809/-107.765809
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129616
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_096 /7020649
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE MOUNTAIN POCKET CREEK MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/78-10/15/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/15/78-10/15/78	1	10800.	10800.	10800.	10800.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/15/78-10/15/78	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/15/78-10/15/78	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/15/78-10/15/78	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/15/78-10/15/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/78-10/15/78	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/15/78-10/15/78	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/15/78-10/15/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/15/78-10/15/78	1	511.	511.	511.	511.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/78-10/15/78	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/15/78-10/15/78	1	35.	35.	35.	35.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/15/78-10/15/78	1	166.	166.	166.	166.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/15/78-10/15/78	1	1029.	1029.	1029.	1029.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/15/78-10/15/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/78-10/15/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/15/78-10/15/78	1	4092.	4092.	4092.	4092.	0.	0.	**	**	**	**

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Parameter Inventory for Station: BICA0185

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/78-10/15/78	1	74.	74.	74.	74.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/15/78-10/15/78	1	186.	186.	186.	186.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/15/78-10/15/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/15/78-10/15/78	1	239.	239.	239.	239.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/15/78-10/15/78	1	8600.	8600.	8600.	8600.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/15/78-10/15/78	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/15/78-10/15/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/15/78-10/15/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/15/78-10/15/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/15/78-10/15/78	1	71.9	71.9	71.9	71.9	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/15/78-10/15/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/15/78-10/15/78	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: BICA0185

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	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: BICA0186

NPS Station ID: BICA0186
LAT/LON: 45.329448/-107.770005
Agency: 21MTHDWQ
Date Created: 10/12/85
Location: SOAP CREEK NEAR ST. XAVIER
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 2267SO01
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10080010000100.00
RF3 Mile Point: 0.00
Distance from RF3: 0.04
On/Off RF3:
Description:
CROW 208 WQ PROGRAM

Parameter Inventory for Station: BICA0186

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/01/76-07/06/77	6	19.	17.333	32.	5.	94.667	9.73	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/01/76-07/06/77	7	28.	31.429	58.	18.	165.952	12.882	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/01/76-07/06/77	7	850.	861.429	1010.	690.	12480.952	111.718	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/11/77-07/06/77	4	931.	928.75	1010.	843.	7647.583	87.45	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/01/76-07/06/77	6	9.2	9.65	12.	7.9	2.975	1.725	**	**	**	**
00400	PH (STANDARD UNITS)	07/01/76-07/06/77	7	8.	8.029	8.4	7.8	0.039	0.198	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/01/76-07/06/77	7	8.	7.994	8.4	7.8	0.04	0.201	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/01/76-07/06/77	7	0.01	0.01	0.016	0.004	0.	0.004	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	01/11/77-07/06/77	4	8.1	8.1	8.2	8.	0.007	0.082	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	01/11/77-07/06/77	4	8.1	8.094	8.2	8.	0.007	0.082	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/11/77-07/06/77	4	0.008	0.008	0.01	0.006	0.	0.002	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/01/76-07/06/77	7	195.	198.571	240.	165.	789.286	28.094	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	01/11/77-07/06/77	4	259.5	254.75	293.	207.	1570.917	39.635	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	01/11/77-07/06/77	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/09/76-07/06/77	5	69.	87.4	193.	27.	3906.3	62.5	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/01/76-07/06/77	7 ##	0.05	0.109	0.5	0.005	0.031	0.176	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/01/76-07/06/77	7	0.05	0.113	0.46	0.025	0.024	0.156	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/01/76-07/06/77	7	0.38	0.39	0.8	0.08	0.058	0.24	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/01/76-07/06/77	7	0.02	0.026	0.05	0.005	0.	0.018	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/77-07/06/77	4	441.	471.5	573.	431.	4601.	67.831	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/77-07/06/77	4	118.	126.25	162.	107.	594.917	24.391	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/77-07/06/77	4	38.2	37.925	42.2	33.1	18.763	4.332	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	01/11/77-07/06/77	4	20.5	29.	60.	15.	435.333	20.865	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/77-07/06/77	4	2.	2.	2.	2.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	01/11/77-07/06/77	4	4.	3.75	5.	2.	2.25	1.5	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	01/11/77-07/06/77	4	319.5	321.5	370.	277.	1915.	43.761	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	01/11/77-07/06/77	4	0.52	0.523	0.56	0.49	0.001	0.033	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/77-07/06/77	4	12.	12.	14.	10.	3.333	1.826	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	01/11/77-07/06/77	4 ##	1.	1.125	2.	0.5	0.396	0.629	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	01/11/77-07/06/77	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	01/11/77-07/06/77	4	113.	161.5	330.	90.	12929.	113.706	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	01/11/77-07/06/77	4 ##	0.5	0.625	1.	0.5	0.063	0.25	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	01/11/77-07/06/77	4	16.5	15.75	25.	5.	95.583	9.777	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	01/11/77-07/06/77	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	01/11/77-07/06/77	4 ##	5.	8.75	20.	5.	56.25	7.5	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	01/11/77-07/06/77	4	875.	1159.75	2099.	790.	394506.917	628.098	**	**	**	**

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Parameter Inventory for Station: BICA0186

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01051	LEAD, TOTAL (UG/L AS PB)	01/11/77-07/06/77	4 ##	5.	6.25	10.	5.	6.25	2.5	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/11/77-07/06/77	4	50.	57.5	90.	40.	491.667	22.174	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	01/11/77-07/06/77	4 ##	5.	9.5	23.	5.	81.	9.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	01/11/77-07/06/77	4 ##	8.5	8.75	13.	5.	18.917	4.349	**	**	**	**
01082	STRONTIUM, TOTAL (UG/L AS SR)	01/11/77-07/06/77	4	2439.5	3289.5	6779.	1500.	5610413.667	2368.631	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	01/11/77-07/06/77	4 ##	5.	4.75	8.5	0.5	10.75	3.279	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	01/11/77-07/06/77	4	23.5	22.5	38.	5.	304.333	17.445	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	01/11/77-07/06/77	4	1409.5	2534.5	6489.	830.	7153653.667	2674.632	**	**	**	**
01132	LITHIUM, TOTAL (UG/L AS LI)	01/11/77-07/06/77	4	40.5	42.	67.	20.	651.333	25.521	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	01/11/77-07/06/77	4 ##	1.	0.875	1.	0.5	0.063	0.25	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/11/77-07/06/77	4	653.5	676.25	802.	596.	9600.25	97.981	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/77-07/06/77	4	783.	789.25	905.	686.	11998.25	109.537	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/01/76-07/06/77	7 ##	0.005	0.012	0.05	0.005	0.	0.017	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	01/11/77-07/06/77	4 ##	0.325	0.338	0.6	0.1	0.076	0.275	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0186

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	6	0	0.00	2	0	0.00	2	0	0.00	2	0	0.00			
00400	PH	Fresh Chronic	9.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Other-Lo Lim.	6.5	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
00403	PH, LAB	Fresh Chronic	9.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	250.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	4	1.00	1	1	1.00	2	2	1.00	1	1	1.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	50.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01027	CADMIUM, TOTAL	Fresh Acute	3.9	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	5.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	4	1	0.25	1	1	1.00	2	0	0.00	1	0	0.00			
		Drinking Water	1300.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	15.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	100.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	5000.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	50.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	2.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			

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

Station Inventory for Station: BICA0187

NPS Station ID: BICA0187
LAT/LON: 45.331392/-107.958892
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129657
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_001 /7020709
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0187

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/29/78-10/29/78	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/29/78-10/29/78	1	1206.	1206.	1206.	1206.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/29/78-10/29/78	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/29/78-10/29/78	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/29/78-10/29/78	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/29/78-10/29/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/78-10/29/78	1	57.2	57.2	57.2	57.2	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/78-10/29/78	1	68.3	68.3	68.3	68.3	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/78-10/29/78	1	3.2	3.2	3.2	3.2	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/29/78-10/29/78	1	38.	38.	38.	38.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/29/78-10/29/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/29/78-10/29/78	1	248.	248.	248.	248.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/29/78-10/29/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/29/78-10/29/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/29/78-10/29/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/29/78-10/29/78	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/78-10/29/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/29/78-10/29/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/29/78-10/29/78	1 ##	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

Parameter Inventory for Station: BICA0187

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	10/29/78-10/29/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/29/78-10/29/78	1	2856.	2856.	2856.	2856.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/29/78-10/29/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/29/78-10/29/78	1	58.	58.	58.	58.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/29/78-10/29/78	1	52.	52.	52.	52.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/29/78-10/29/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/29/78-10/29/78	1	51.	51.	51.	51.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/29/78-10/29/78	1	5800.	5800.	5800.	5800.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/29/78-10/29/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/29/78-10/29/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/29/78-10/29/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/29/78-10/29/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/29/78-10/29/78	1	3.86	3.86	3.86	3.86	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/29/78-10/29/78	1	13.	13.	13.	13.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/29/78-10/29/78	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: BICA0187

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0188

NPS Station ID: BICA0188
LAT/LON: 45.335615/-107.993615
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129658
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_060 /7020711
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0188

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/29/78-10/29/78	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/29/78-10/29/78	1	1100.	1100.	1100.	1100.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/29/78-10/29/78	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/29/78-10/29/78	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/29/78-10/29/78	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/29/78-10/29/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/78-10/29/78	1	93.1	93.1	93.1	93.1	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/78-10/29/78	1	36.	36.	36.	36.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/78-10/29/78	1	4.4	4.4	4.4	4.4	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/29/78-10/29/78	1	140.	140.	140.	140.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/29/78-10/29/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/29/78-10/29/78	1	177.	177.	177.	177.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/29/78-10/29/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/29/78-10/29/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/29/78-10/29/78	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/29/78-10/29/78	1	150.	150.	150.	150.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/78-10/29/78	1	27.	27.	27.	27.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/29/78-10/29/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/29/78-10/29/78	1 ##	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

Parameter Inventory for Station: BICA0188

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	10/29/78-10/29/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/29/78-10/29/78	1	4835.	4835.	4835.	4835.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/29/78-10/29/78	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/29/78-10/29/78	1	77.	77.	77.	77.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/29/78-10/29/78	1	111.	111.	111.	111.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/29/78-10/29/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/29/78-10/29/78	1	31.	31.	31.	31.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/29/78-10/29/78	1	12900.	12900.	12900.	12900.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/29/78-10/29/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/29/78-10/29/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/29/78-10/29/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/29/78-10/29/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/29/78-10/29/78	1	8.86	8.86	8.86	8.86	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/29/78-10/29/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/29/78-10/29/78	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: BICA0188

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0189

NPS Station ID: BICA0189
LAT/LON: 45.337503/-108.043616
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38086
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_063 /1037454
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE GRAPEVINE DOME MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0189

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	1	500.	500.	500.	500.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	01/20/79-01/20/79	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/20/79-01/20/79	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/20/79-01/20/79	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	1	77.8	77.8	77.8	77.8	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	1	29.8	29.8	29.8	29.8	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	1	103.	103.	103.	103.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	1	42.	42.	42.	42.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	1	251.	251.	251.	251.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	1	704.	704.	704.	704.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	1	0.14	0.14	0.14	0.14	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

EPA Water Quality Criteria Analysis for Station: BICA0189

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00	1	1	1.00									
		Drinking Water	15.	1	1	1.00	1	1	1.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0190

NPS Station ID: BICA0190
LAT/LON: 45.338059/-107.897781
Agency: 112WRD
Date Created: 04/26/97
Location: BIGHORN RIVER 2.6 MI BL AFTERBAY DAM NR FORT SMI
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 452017107535201
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:

Parameter Inventory for Station: BICA0190

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/10/97-02/10/97	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/10/97-02/10/97	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	02/10/97-02/10/97	1	4300.	4300.	4300.	4300.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/10/97-02/10/97	1	763.	763.	763.	763.	0.	0.	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	02/10/97-02/10/97	1	59.	59.	59.	59.	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	02/10/97-02/10/97	1	4.	4.	4.	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

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

Station Inventory for Station: BICA0191

NPS Station ID: BICA0191
LAT/LON: 45.338615/-108.098310
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38083
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_002 /1037451
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE GRAPEVINE DOME MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0191

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	1	400.	400.	400.	400.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	01/20/79-01/20/79	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/20/79-01/20/79	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/20/79-01/20/79	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	1	31.1	31.1	31.1	31.1	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	1	243.	243.	243.	243.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	1	36.	36.	36.	36.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	1	285.	285.	285.	285.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	1	611.	611.	611.	611.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	1	46.	46.	46.	46.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	1	135.	135.	135.	135.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	1	0.26	0.26	0.26	0.26	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0191

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00	1	1	1.00									
		Drinking Water	15.	1	1	1.00	1	1	1.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0192

NPS Station ID: BICA0192
LAT/LON: 45.339698/-108.050309
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38085
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_064 /1037453
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE GRAPEVINE DOME MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0192

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	1	400.	400.	400.	400.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	01/20/79-01/20/79	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/20/79-01/20/79	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/20/79-01/20/79	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	1	73.7	73.7	73.7	73.7	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	1	28.6	28.6	28.6	28.6	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	1	306.	306.	306.	306.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	1	36.	36.	36.	36.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	1	251.	251.	251.	251.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	1	696.	696.	696.	696.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	1	43.	43.	43.	43.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	1	45.	45.	45.	45.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	1	166.	166.	166.	166.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	1	0.16	0.16	0.16	0.16	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0192

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00	1	1	1.00									
		Drinking Water	15.	1	1	1.00	1	1	1.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0193

NPS Station ID: BICA0193
LAT/LON: 45.340005/-107.823892
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129627
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_095 /7020669
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE MOUNTAIN POCKET CREEK MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0193

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/78-10/15/78	1	17.5	17.5	17.5	17.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/15/78-10/15/78	1	2400.	2400.	2400.	2400.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/15/78-10/15/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/15/78-10/15/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/15/78-10/15/78	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/15/78-10/15/78	1	0.74	0.74	0.74	0.74	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/78-10/15/78	1	69.5	69.5	69.5	69.5	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/78-10/15/78	1	9.6	9.6	9.6	9.6	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/15/78-10/15/78	1	55.	55.	55.	55.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/15/78-10/15/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/15/78-10/15/78	1	503.	503.	503.	503.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/78-10/15/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/15/78-10/15/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/15/78-10/15/78	1	96.	96.	96.	96.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/15/78-10/15/78	1	23.	23.	23.	23.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/15/78-10/15/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/78-10/15/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: BICA0193

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/15/78-10/15/78	1	1204.	1204.	1204.	1204.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/78-10/15/78	1	29.	29.	29.	29.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/15/78-10/15/78	1	136.	136.	136.	136.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/15/78-10/15/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/15/78-10/15/78	1	192.	192.	192.	192.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/15/78-10/15/78	1	5900.	5900.	5900.	5900.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/15/78-10/15/78	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/15/78-10/15/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/15/78-10/15/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/15/78-10/15/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/15/78-10/15/78	1	73.72	73.72	73.72	73.72	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/15/78-10/15/78	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: BICA0193

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	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: BICA0194

NPS Station ID: BICA0194
LAT/LON: 45.341115/-107.810615
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129628
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_009 /7020671
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE MOUNTAIN POCKET CREEK MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0194

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/78-10/15/78	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/15/78-10/15/78	1	1800.	1800.	1800.	1800.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/15/78-10/15/78	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/15/78-10/15/78	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/15/78-10/15/78	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/15/78-10/15/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/15/78-10/15/78	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/78-10/15/78	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/78-10/15/78	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/15/78-10/15/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/15/78-10/15/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/15/78-10/15/78	1	764.	764.	764.	764.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/78-10/15/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/15/78-10/15/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/15/78-10/15/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/15/78-10/15/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/15/78-10/15/78	1 ##	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

Parameter Inventory for Station: BICA0194

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/78-10/15/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/15/78-10/15/78	1	42.	42.	42.	42.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/78-10/15/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/15/78-10/15/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	10/15/78-10/15/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/15/78-10/15/78	1	79.	79.	79.	79.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	10/15/78-10/15/78	1	3800.	3800.	3800.	3800.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10/15/78-10/15/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	10/15/78-10/15/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	10/15/78-10/15/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	10/15/78-10/15/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/15/78-10/15/78	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	10/15/78-10/15/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	10/15/78-10/15/78	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: BICA0194

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0195

NPS Station ID: BICA0195
LAT/LON: 45.342227/-107.909727
Agency: 112WRD
Date Created: 04/26/97
Location: BIGHORN RIVER 3.3 MI BL AFTERBAY DAM NR FORT SMI
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 452032107543501
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:

Parameter Inventory for Station: BICA0195

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/10/97-02/10/97	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/10/97-02/10/97	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	02/10/97-02/10/97	1	4120.	4120.	4120.	4120.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/10/97-02/10/97	1	762.	762.	762.	762.	0.	0.	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	02/10/97-02/10/97	1	66.	66.	66.	66.	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	02/10/97-02/10/97	1	4.	4.	4.	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

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

Station Inventory for Station: BICA0196

NPS Station ID: BICA0196
LAT/LON: 45.355809/-108.106116
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38084
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_062 /1037452
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE GRAPEVINE DOME MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0196

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/20/79-01/20/79	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/20/79-01/20/79	1	670.	670.	670.	670.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	01/20/79-01/20/79	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/20/79-01/20/79	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/20/79-01/20/79	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/20/79-01/20/79	1	83.3	83.3	83.3	83.3	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/20/79-01/20/79	1	48.3	48.3	48.3	48.3	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	01/20/79-01/20/79	1	106.	106.	106.	106.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	01/20/79-01/20/79	1	53.	53.	53.	53.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	01/20/79-01/20/79	1	43.	43.	43.	43.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	01/20/79-01/20/79	1	547.	547.	547.	547.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/20/79-01/20/79	1	21.	21.	21.	21.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	01/20/79-01/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/20/79-01/20/79	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/20/79-01/20/79	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	01/20/79-01/20/79	1	1.55	1.55	1.55	1.55	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0196

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00	1	1	1.00									
		Drinking Water	15.	1	1	1.00	1	1	1.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0197

NPS Station ID: BICA0197
LAT/LON: 45.360309/-107.883309
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129672
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_091 /7020734
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0197

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/78-11/05/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/05/78-11/05/78	1	1150.	1150.	1150.	1150.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/05/78-11/05/78	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/05/78-11/05/78	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/05/78-11/05/78	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/05/78-11/05/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/05/78-11/05/78	1	62.1	62.1	62.1	62.1	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/05/78-11/05/78	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	11/05/78-11/05/78	1	72.	72.	72.	72.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/05/78-11/05/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	11/05/78-11/05/78	1	540.	540.	540.	540.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	11/05/78-11/05/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	11/05/78-11/05/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	11/05/78-11/05/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	11/05/78-11/05/78	1	56.	56.	56.	56.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/05/78-11/05/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/05/78-11/05/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	11/05/78-11/05/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	11/05/78-11/05/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: BICA0197

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/05/78-11/05/78	1	1136.	1136.	1136.	1136.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	11/05/78-11/05/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	11/05/78-11/05/78	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/05/78-11/05/78	1	55.	55.	55.	55.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	11/05/78-11/05/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/05/78-11/05/78	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	11/05/78-11/05/78	1	10400.	10400.	10400.	10400.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	11/05/78-11/05/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	11/05/78-11/05/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	11/05/78-11/05/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	11/05/78-11/05/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	11/05/78-11/05/78	1	40.1	40.1	40.1	40.1	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	11/05/78-11/05/78	1	9.	9.	9.	9.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	11/05/78-11/05/78	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: BICA0197

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	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: BICA0198

NPS Station ID: BICA0198
LAT/LON: 45.365309/-107.914198
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129671
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_008 /7020732
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE YELLOWTAIL DAM MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0198

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/78-11/05/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/05/78-11/05/78	1	1000.	1000.	1000.	1000.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/05/78-11/05/78	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/05/78-11/05/78	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/05/78-11/05/78	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/05/78-11/05/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/05/78-11/05/78	1	66.1	66.1	66.1	66.1	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/05/78-11/05/78	1	47.5	47.5	47.5	47.5	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/05/78-11/05/78	1	89.7	89.7	89.7	89.7	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/05/78-11/05/78	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	11/05/78-11/05/78	1	69.	69.	69.	69.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/05/78-11/05/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	11/05/78-11/05/78	1	434.	434.	434.	434.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	11/05/78-11/05/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	11/05/78-11/05/78	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	11/05/78-11/05/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	11/05/78-11/05/78	1	128.	128.	128.	128.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/05/78-11/05/78	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/05/78-11/05/78	1	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

Parameter Inventory for Station: BICA0198

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01065	NICKEL, DISSOLVED (UG/L AS NI)	11/05/78-11/05/78	1	23.	23.	23.	23.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	11/05/78-11/05/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/05/78-11/05/78	1	726.	726.	726.	726.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	11/05/78-11/05/78	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	11/05/78-11/05/78	1	29.	29.	29.	29.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/05/78-11/05/78	1	132.	132.	132.	132.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	11/05/78-11/05/78	1	72.	72.	72.	72.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/05/78-11/05/78	1	39.	39.	39.	39.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	11/05/78-11/05/78	1	7500.	7500.	7500.	7500.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	11/05/78-11/05/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	11/05/78-11/05/78	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	11/05/78-11/05/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	11/05/78-11/05/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	11/05/78-11/05/78	1	49.24	49.24	49.24	49.24	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	11/05/78-11/05/78	1	14.	14.	14.	14.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	11/05/78-11/05/78	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: BICA0198

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	1	1.00	1	1	1.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	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: BICA0199

NPS Station ID: BICA0199
LAT/LON: 45.372504/-107.788060
Agency: 21MTHDWQ
Date Created: 10/12/85
Location: SOAP CREEK HIWAY BRIDGE 313 SOUTH OF ST X
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 2367SO01
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10080015003703.44
RF3 Mile Point: 6.85
Distance from RF3: 0.09
On/Off RF3:
Description:

Parameter Inventory for Station: BICA0199

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/20/73-04/20/83	9	10.	10.9	21.	0.	73.965	8.6	0.	1.5	20.	21.
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/20/73-04/20/83	7	16.	24.286	66.	10.	387.571	19.687	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/20/83-04/20/83	1	40.	40.	40.	40.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/31/76-07/06/77	5	1010.	1056.	1340.	850.	34630.	186.091	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/20/73-04/20/83	8	1039.5	1067.125	1500.	849.	37558.982	193.801	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	01/12/77-07/06/77	4	11.	11.45	14.	9.8	4.17	2.042	**	**	**	**
00400	PH (STANDARD UNITS)	08/31/76-04/20/83	6	8.1	8.15	8.4	8.	0.019	0.138	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/31/76-04/20/83	6	8.1	8.134	8.4	8.	0.019	0.139	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/31/76-04/20/83	6	0.008	0.007	0.01	0.004	0.	0.002	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	12/20/73-04/20/83	8	8.3	8.163	8.5	7.4	0.126	0.354	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	12/20/73-04/20/83	8	8.3	7.995	8.5	7.4	0.158	0.397	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/20/73-04/20/83	8	0.005	0.01	0.04	0.003	0.	0.012	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/31/74-04/20/83	8	213.5	212.625	278.	165.	1599.982	40.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	03/31/74-07/06/77	6	271.	266.833	339.	207.	2418.567	49.179	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	03/31/74-07/06/77	6	0.	2.167	8.	0.	12.167	3.488	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/12/77-04/20/83	5	64.	90.4	221.	24.	6019.3	77.584	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/31/76-04/20/83	6 ##	0.028	0.319	1.799	0.005	0.526	0.725	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/31/74-07/06/77	7	0.04	0.081	0.2	0.02	0.007	0.082	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/76-07/06/77	5	0.4	0.342	0.5	0.05	0.036	0.191	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/20/83-04/20/83	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/31/76-04/20/83	6	0.06	0.051	0.1	0.005	0.001	0.037	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/31/74-04/20/83	7	445.	456.143	586.	391.	3863.81	62.16	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/31/74-04/20/83	7	117.	116.714	160.	84.	507.905	22.537	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/31/74-04/20/83	7	42.5	40.029	45.3	31.9	26.959	5.192	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	03/31/74-04/20/83	7	56.	57.199	80.	37.39	308.546	17.565	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	01/12/77-04/20/83	5	3.	3.22	5.	2.1	1.142	1.069	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	03/31/74-04/20/83	7	6.	6.571	13.	2.	14.952	3.867	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/31/74-04/20/83	7	350.	337.714	402.	227.	3325.571	57.668	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/31/74-07/06/77	5	0.54	0.542	0.58	0.49	0.001	0.033	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/12/77-07/06/77	4	12.5	12.	13.	10.	2.	1.414	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	03/31/74-07/06/77	5 ##	1.	1.7	5.	0.5	3.45	1.857	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	01/12/77-07/06/77	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	01/12/77-07/06/77	4	202.5	308.75	740.	90.	86406.25	293.949	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	12/20/73-07/06/77	7 ##	0.5	1.786	5.	0.5	4.821	2.196	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	01/12/77-07/06/77	4	20.5	21.	38.	5.	202.	14.213	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	01/12/77-07/06/77	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	12/20/73-07/06/77	7 ##	5.	8.	21.	5.	36.333	6.028	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	12/20/73-04/20/83	4	1919.5	1979.75	3900.	180.	2535893.583	1592.449	**	**	**	**

** - Less than 9 observations ## - 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: BICA0199

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01046	IRON, DISSOLVED (UG/L AS FE)	01/12/77-07/06/77	4	595.	1137.5	3000.	360.	1560025.	1249.01	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	12/20/73-07/06/77	5 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/31/74-04/20/83	3	130.	153.333	220.	110.	3433.333	58.595	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/12/77-07/06/77	4	75.	77.475	119.9	40.	1488.836	38.585	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	01/12/77-07/06/77	4 ##	5.	12.	33.	5.	196.	14.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	01/12/77-04/20/83	5	16.	17.6	33.	5.	104.3	10.213	**	**	**	**
01082	STRONTIUM, TOTAL (UG/L AS SR)	01/12/77-07/06/77	4	1650.	2424.75	6099.	300.	6886716.917	2624.255	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	01/12/77-07/06/77	4 ##	5.	9.75	24.	5.	90.25	9.5	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	12/20/73-07/06/77	7	10.	36.571	186.	5.	4380.619	66.186	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	01/12/77-07/06/77	4	2320.	3562.25	9259.	350.	15585226.917	3947.813	**	**	**	**
01132	LITHIUM, TOTAL (UG/L AS LI)	01/12/77-07/06/77	4	84.5	102.	200.	39.	4832.667	69.517	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	01/12/77-07/06/77	4 ##	0.75	0.9	2.	0.1	0.673	0.821	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/12/77-07/06/77	4	769.	786.5	880.	728.	4819.667	69.424	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	03/31/74-07/06/77	6	838.5	847.667	1010.	691.	11337.867	106.479	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/31/74-04/20/83	8	0.028	0.029	0.062	0.005	0.001	0.024	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	03/31/74-07/06/77	6 ##	0.5	0.45	0.8	0.1	0.087	0.295	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0199

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
00400	PH	Fresh Chronic	9.	6	0	0.00	2	0	0.00	3	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	6	0	0.00	2	0	0.00	3	0	0.00	1	0	0.00			
00403	PH, LAB	Fresh Chronic	9.	8	0	0.00	3	0	0.00	4	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	8	0	0.00	3	0	0.00	4	0	0.00	1	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	7	0	0.00	3	0	0.00	3	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						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	7	0	0.00	2	0	0.00	4	0	0.00	1	0	0.00			
		Drinking Water	250.	7	0	0.00	2	0	0.00	4	0	0.00	1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	7	6	0.86	2	2	1.00	4	3	0.75	1	1	1.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	5	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	5	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	50.	5	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01027	CADMIUM, TOTAL	Fresh Acute	3.9	5 &	0	0.00	1	0	0.00	3	0	0.00	1	0	0.00			
		Drinking Water	5.	5 &	0	0.00	1	0	0.00	3	0	0.00	1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	7	1	0.14	3	0	0.00	3	0	0.00	1	1	1.00			
		Drinking Water	1300.	7	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	5	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	15.	5	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	5	0	0.00	1	0	0.00	3	0	0.00	1	0	0.00			
		Drinking Water	100.	5	0	0.00	1	0	0.00	3	0	0.00	1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	7	1	0.14	3	0	0.00	3	0	0.00	1	1	1.00			
		Drinking Water	5000.	7	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	50.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	6	0	0.00	2	0	0.00	3	0	0.00	1	0	0.00			
		Drinking Water	2.	6	0	0.00	2	0	0.00	3	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: BICA0200

NPS Station ID: BICA0200
LAT/LON: 45.378893/-108.048615
Agency: 11NPSWRD
Date Created: 11/08/97
Location: M38056
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_066 /1037427
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE MOTT CREEK MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0200

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/19/79-01/19/79	1	575.	575.	575.	575.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	01/19/79-01/19/79	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/19/79-01/19/79	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/19/79-01/19/79	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/19/79-01/19/79	1	97.	97.	97.	97.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/19/79-01/19/79	1	55.9	55.9	55.9	55.9	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/19/79-01/19/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	01/19/79-01/19/79	1	252.	252.	252.	252.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	01/19/79-01/19/79	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	01/19/79-01/19/79	1	114.	114.	114.	114.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	01/19/79-01/19/79	1	801.	801.	801.	801.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/19/79-01/19/79	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/19/79-01/19/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	01/19/79-01/19/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/19/79-01/19/79	1	313.	313.	313.	313.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	01/19/79-01/19/79	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	01/19/79-01/19/79	1	2.74	2.74	2.74	2.74	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0200

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	1	1.00	1	1	1.00									
		Drinking Water	15.	1	1	1.00	1	1	1.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0201

NPS Station ID: BICA0201
LAT/LON: 45.379392/-107.922505
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129670
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_068 /7020730
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE CAMP FOUR MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0201

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/78-11/05/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/05/78-11/05/78	1	1200.	1200.	1200.	1200.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/05/78-11/05/78	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/05/78-11/05/78	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/05/78-11/05/78	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/05/78-11/05/78	1	0.118	0.118	0.118	0.118	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/05/78-11/05/78	1	66.9	66.9	66.9	66.9	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/05/78-11/05/78	1	46.4	46.4	46.4	46.4	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/05/78-11/05/78	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	11/05/78-11/05/78	1	103.	103.	103.	103.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/05/78-11/05/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	11/05/78-11/05/78	1	194.	194.	194.	194.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	11/05/78-11/05/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	11/05/78-11/05/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	11/05/78-11/05/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	11/05/78-11/05/78	1	41.	41.	41.	41.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/05/78-11/05/78	1	484.	484.	484.	484.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/05/78-11/05/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	11/05/78-11/05/78	1	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

Parameter Inventory for Station: BICA0201

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	11/05/78-11/05/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/05/78-11/05/78	1	647.	647.	647.	647.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	11/05/78-11/05/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	11/05/78-11/05/78	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/05/78-11/05/78	1	32.	32.	32.	32.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	11/05/78-11/05/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/05/78-11/05/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	11/05/78-11/05/78	1	10400.	10400.	10400.	10400.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	11/05/78-11/05/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	11/05/78-11/05/78	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	11/05/78-11/05/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	11/05/78-11/05/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	11/05/78-11/05/78	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	11/05/78-11/05/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	11/05/78-11/05/78	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: BICA0201

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0202

NPS Station ID: BICA0202
LAT/LON: 45.399198/-107.821393
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129660
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BICA_NURE_010 /7020715
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE LEMONADE SPRINGS MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOSA SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0202

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/78-11/05/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/05/78-11/05/78	1	3400.	3400.	3400.	3400.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/05/78-11/05/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/05/78-11/05/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/05/78-11/05/78	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/05/78-11/05/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/05/78-11/05/78	1	12.1	12.1	12.1	12.1	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	11/05/78-11/05/78	1	58.	58.	58.	58.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/05/78-11/05/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	11/05/78-11/05/78	1	506.	506.	506.	506.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	11/05/78-11/05/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	11/05/78-11/05/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	11/05/78-11/05/78	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	11/05/78-11/05/78	1	139.	139.	139.	139.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/05/78-11/05/78	1	53.	53.	53.	53.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/05/78-11/05/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	11/05/78-11/05/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	11/05/78-11/05/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/05/78-11/05/78	1	3002.	3002.	3002.	3002.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: BICA0202

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01085	VANADIUM, DISSOLVED (UG/L AS V)	11/05/78-11/05/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	11/05/78-11/05/78	1	52.	52.	52.	52.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/05/78-11/05/78	1	97.	97.	97.	97.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	11/05/78-11/05/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/05/78-11/05/78	1	61.	61.	61.	61.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	11/05/78-11/05/78	1	14100.	14100.	14100.	14100.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	11/05/78-11/05/78	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	11/05/78-11/05/78	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	11/05/78-11/05/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	11/05/78-11/05/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	11/05/78-11/05/78	1	10.42	10.42	10.42	10.42	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	11/05/78-11/05/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	11/05/78-11/05/78	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: BICA0202

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	1	1.00	1	1	1.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0203

NPS Station ID: BICA0203
LAT/LON: 45.417504/-107.904699
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129669
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_090 /7020728
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE CAMP FOUR MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0203

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/78-11/05/78	1	9.5	9.5	9.5	9.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/05/78-11/05/78	1	3100.	3100.	3100.	3100.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/05/78-11/05/78	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/05/78-11/05/78	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/05/78-11/05/78	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/05/78-11/05/78	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/05/78-11/05/78	1	15.7	15.7	15.7	15.7	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	11/05/78-11/05/78	1	38.	38.	38.	38.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/05/78-11/05/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	11/05/78-11/05/78	1	207.	207.	207.	207.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	11/05/78-11/05/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	11/05/78-11/05/78	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	11/05/78-11/05/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	11/05/78-11/05/78	1	151.	151.	151.	151.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/05/78-11/05/78	1	1737.	1737.	1737.	1737.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/05/78-11/05/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	11/05/78-11/05/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	11/05/78-11/05/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/05/78-11/05/78	1	1054.	1054.	1054.	1054.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: BICA0203

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01085	VANADIUM, DISSOLVED (UG/L AS V)	11/05/78-11/05/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	11/05/78-11/05/78	1	29.	29.	29.	29.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/05/78-11/05/78	1	126.	126.	126.	126.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	11/05/78-11/05/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/05/78-11/05/78	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	11/05/78-11/05/78	1	6100.	6100.	6100.	6100.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	11/05/78-11/05/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	11/05/78-11/05/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	11/05/78-11/05/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	11/05/78-11/05/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	11/05/78-11/05/78	1	2.46	2.46	2.46	2.46	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	11/05/78-11/05/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	11/05/78-11/05/78	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: BICA0203

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0204

NPS Station ID: BICA0204
LAT/LON: 45.422503/-107.971115
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129682
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_069 /7020748
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE CAMP FOUR MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0204

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/07/78-11/07/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/07/78-11/07/78	1	1700.	1700.	1700.	1700.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/07/78-11/07/78	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/07/78-11/07/78	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/07/78-11/07/78	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/07/78-11/07/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/07/78-11/07/78	1	78.6	78.6	78.6	78.6	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/07/78-11/07/78	1	43.6	43.6	43.6	43.6	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/07/78-11/07/78	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	11/07/78-11/07/78	1	49.	49.	49.	49.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/07/78-11/07/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	11/07/78-11/07/78	1	223.	223.	223.	223.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	11/07/78-11/07/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	11/07/78-11/07/78	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	11/07/78-11/07/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	11/07/78-11/07/78	1	76.	76.	76.	76.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/07/78-11/07/78	1	41.	41.	41.	41.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/07/78-11/07/78	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	11/07/78-11/07/78	1	16.	16.	16.	16.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: BICA0204

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	11/07/78-11/07/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/07/78-11/07/78	1	5233.	5233.	5233.	5233.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	11/07/78-11/07/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	11/07/78-11/07/78	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/07/78-11/07/78	1	86.	86.	86.	86.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	11/07/78-11/07/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/07/78-11/07/78	1	31.	31.	31.	31.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	11/07/78-11/07/78	1	7400.	7400.	7400.	7400.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	11/07/78-11/07/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	11/07/78-11/07/78	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	11/07/78-11/07/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	11/07/78-11/07/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	11/07/78-11/07/78	1	14.18	14.18	14.18	14.18	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	11/07/78-11/07/78	1	15.	15.	15.	15.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	11/07/78-11/07/78	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: BICA0204

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	1	1.00	1	1	1.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0205

NPS Station ID: BICA0205
LAT/LON: 45.433893/-107.860309
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129666
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_086 /7020723
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE LEMONADE SPRINGS MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0205

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/78-11/05/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/05/78-11/05/78	1	1700.	1700.	1700.	1700.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/05/78-11/05/78	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/05/78-11/05/78	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/05/78-11/05/78	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/05/78-11/05/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/05/78-11/05/78	1	6.2	6.2	6.2	6.2	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	11/05/78-11/05/78	1	72.	72.	72.	72.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/05/78-11/05/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	11/05/78-11/05/78	1	567.	567.	567.	567.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	11/05/78-11/05/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	11/05/78-11/05/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	11/05/78-11/05/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	11/05/78-11/05/78	1	99.	99.	99.	99.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/05/78-11/05/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/05/78-11/05/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	11/05/78-11/05/78	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	11/05/78-11/05/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/05/78-11/05/78	1	1788.	1788.	1788.	1788.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: BICA0205

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01085	VANADIUM, DISSOLVED (UG/L AS V)	11/05/78-11/05/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	11/05/78-11/05/78	1	23.	23.	23.	23.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/05/78-11/05/78	1	128.	128.	128.	128.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	11/05/78-11/05/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/05/78-11/05/78	1	53.	53.	53.	53.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	11/05/78-11/05/78	1	9800.	9800.	9800.	9800.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	11/05/78-11/05/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	11/05/78-11/05/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	11/05/78-11/05/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	11/05/78-11/05/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	11/05/78-11/05/78	1	40.96	40.96	40.96	40.96	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	11/05/78-11/05/78	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	11/05/78-11/05/78	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: BICA0205

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	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: BICA0206

NPS Station ID: BICA0206
LAT/LON: 45.442503/-107.881892
Agency: 11NPSWRD
Date Created: 11/08/97
Location: 129677
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BICA_NURE_092 /7020740
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 4.10
On/Off RF1:
RF3 Index: 10080014004800.00
RF3 Mile Point: 0.75
Distance from RF3: 0.35
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE CAMP FOUR MONTANA-BIGHORN CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE THE BIGHORN CANYON NATIONAL RECREATION AREA PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A .45 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD 1201 OAK RIDGE DRIVE SUITE 250 FORT COLLINS CO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: BICA0206

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/05/78-11/05/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/05/78-11/05/78	1	1900.	1900.	1900.	1900.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/05/78-11/05/78	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/05/78-11/05/78	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/05/78-11/05/78	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/05/78-11/05/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/05/78-11/05/78	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	11/05/78-11/05/78	1	94.	94.	94.	94.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/05/78-11/05/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	11/05/78-11/05/78	1	588.	588.	588.	588.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	11/05/78-11/05/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	11/05/78-11/05/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	11/05/78-11/05/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	11/05/78-11/05/78	1	84.	84.	84.	84.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/05/78-11/05/78	1	158.	158.	158.	158.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/05/78-11/05/78	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	11/05/78-11/05/78	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	11/05/78-11/05/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/05/78-11/05/78	1	2008.	2008.	2008.	2008.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: BICA0206

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01085	VANADIUM, DISSOLVED (UG/L AS V)	11/05/78-11/05/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	11/05/78-11/05/78	1	41.	41.	41.	41.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/05/78-11/05/78	1	98.	98.	98.	98.	0.	0.	**	**	**	**
01110	CERIUM, DISSOLVED (UG/L AS CE)	11/05/78-11/05/78	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/05/78-11/05/78	1	64.	64.	64.	64.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	11/05/78-11/05/78	1	9300.	9300.	9300.	9300.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	11/05/78-11/05/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	11/05/78-11/05/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01187	SCANDIUM, DISSOLVED (UG/L AS SC)	11/05/78-11/05/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01201	YTTRIUM, DISSOLVED (UG/L AS Y)	11/05/78-11/05/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	11/05/78-11/05/78	1	26.8	26.8	26.8	26.8	0.	0.	**	**	**	**
50580	NIOBIUM, DISSOLVED UG/L	11/05/78-11/05/78	1	11.	11.	11.	11.	0.	0.	**	**	**	**
82365	THORIUM, DISSOLVED IN WATER UG/L	11/05/78-11/05/78	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: BICA0206

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
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									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	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: BICA0207

NPS Station ID: BICA0207
LAT/LON: 45.457781/-107.723615
Agency: 21MTHDWQ
Date Created: 10/12/85
Location: ROTTENGRASS CREEK ABOVE ST XAVIER
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 2467RO01
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10080015002100.07
RF3 Mile Point: 3.19
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: BICA0207

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/19/73-11/19/73	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/19/73-11/19/73	1	2020.	2020.	2020.	2020.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/19/73-11/19/73	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/19/73-11/19/73	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/19/73-11/19/73	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/19/73-11/19/73	1	220.	220.	220.	220.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	11/19/73-11/19/73	1	269.	269.	269.	269.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	11/19/73-11/19/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	11/19/73-11/19/73	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/19/73-11/19/73	1	672.	672.	672.	672.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/19/73-11/19/73	1	160.	160.	160.	160.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/19/73-11/19/73	1	66.	66.	66.	66.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/19/73-11/19/73	1	97.	97.	97.	97.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/19/73-11/19/73	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/19/73-11/19/73	1	628.	628.	628.	628.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	11/19/73-11/19/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	11/19/73-11/19/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	11/19/73-11/19/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	11/19/73-11/19/73	1	740.	740.	740.	740.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	11/19/73-11/19/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	11/19/73-11/19/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/19/73-11/19/73	1	1226.	1226.	1226.	1226.	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/19/73-11/19/73	1	0.146	0.146	0.146	0.146	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0207

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------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	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	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									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									

& - 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: BICA0207

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	1	1.00	1	1	1.00									
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												
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0208

NPS Station ID: BICA0208 LAT/LON: 45.462226/-107.727505 Agency: 21MTHDWQ Date Created: 10/12/85
Location: ROTTENGRASS CREEK BELOW ST XAVIER SEWAGE FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 2467RO02
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10080015 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: YELLOWSTONE RIVER ECO Region:
RF1 Index: 10080015 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 10080015003800.00 RF3 Mile Point: 3.97 Distance from RF3: 0.04 On/Off RF3:
Description:

Parameter Inventory for Station: BICA0208

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/20/73-12/20/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/20/73-12/20/73	1	1642.	1642.	1642.	1642.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	12/20/73-12/20/73	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	12/20/73-12/20/73	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/20/73-12/20/73	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	12/20/73-12/20/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	12/20/73-12/20/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	12/20/73-12/20/73	1	350.	350.	350.	350.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	12/20/73-12/20/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	12/20/73-12/20/73	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: BICA0208

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	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												
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BICA0209

NPS Station ID: BICA0209
LAT/LON: 45.471392/-107.735003
Agency: 21MTHDWQ
Date Created: 10/12/85
Location: ROTTEN GRASS CREEK AT MOUTH
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 2467RO03
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10080015003800.00
RF3 Mile Point: 1.21
Distance from RF3: 0.02
On/Off RF3:
Description:
CROW 208 WQ PROGRAM

Parameter Inventory for Station: BICA0209

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/30/76-04/20/83	8	14.2	12.038	21.	0.	63.137	7.946	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/30/76-04/20/83	8	39.	42.375	126.	8.	1491.125	38.615	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/20/83-04/20/83	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/30/76-07/14/77	7	1090.	1199.286	1800.	700.	164553.571	405.652	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/12/77-04/20/83	5	1235.	1362.	1800.	1049.	112666.5	335.658	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/30/76-07/14/77	7	9.2	10.086	13.9	7.8	5.675	2.382	**	**	**	**
00400	PH (STANDARD UNITS)	06/30/76-04/20/83	8	8.	7.9	8.1	7.1	0.109	0.33	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/30/76-04/20/83	8	8.	7.733	8.1	7.1	0.14	0.375	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/30/76-04/20/83	8	0.01	0.018	0.079	0.008	0.001	0.025	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	01/12/77-04/20/83	5	8.	8.04	8.3	7.8	0.033	0.182	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	01/12/77-04/20/83	5	8.	8.011	8.3	7.8	0.034	0.185	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/12/77-04/20/83	5	0.01	0.01	0.016	0.005	0.	0.004	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/30/76-04/20/83	8	209.5	219.125	328.	138.	3356.125	57.932	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	01/12/77-04/20/83	5	267.	288.4	400.	220.	5018.3	70.84	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	01/12/77-04/20/83	5	0.	0.	0.	0.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/11/76-04/20/83	6	42.	134.667	490.	15.	34171.067	184.854	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/30/76-04/20/83	8 ##	0.1	0.164	0.5	0.005	0.035	0.187	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/30/76-07/14/77	7	0.3	0.363	0.97	0.1	0.084	0.29	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/30/76-07/14/77	7	0.5	0.787	1.599	0.17	0.266	0.515	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/20/83-04/20/83	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/30/76-04/20/83	8	0.045	0.066	0.21	0.005	0.006	0.077	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/12/77-04/20/83	5	560.	608.6	886.	445.	35631.3	188.763	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/12/77-04/20/83	5	137.	148.2	223.	110.	2151.7	46.386	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/12/77-04/20/83	5	53.	57.94	80.	40.2	348.448	18.667	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	01/12/77-04/20/83	5	80.	93.8	120.	72.	520.2	22.808	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	01/12/77-04/20/83	5	4.	3.	4.	0.	3.	1.732	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	01/12/77-04/20/83	5	11.	10.8	14.	6.	9.7	3.114	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	01/12/77-04/20/83	5	458.	562.4	794.	411.	33263.3	182.382	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	01/12/77-07/14/77	4	0.39	0.398	0.45	0.36	0.002	0.041	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/12/77-07/14/77	4	16.	16.75	26.	9.	65.583	8.098	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	01/12/77-07/14/77	4 ##	2.	2.375	5.	0.5	4.229	2.056	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	01/12/77-07/14/77	4 ##	5.	11.998	32.99	5.	195.86	13.995	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	01/12/77-07/14/77	4	255.	251.25	300.	195.	2272.917	47.675	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	01/12/77-07/14/77	4 ##	0.5	1.375	4.	0.5	3.063	1.75	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	01/12/77-07/14/77	4	29.	32.5	67.	5.	659.667	25.684	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	01/12/77-07/14/77	4 ##	5.	7.75	16.	5.	30.25	5.5	**	**	**	**

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

Parameter Inventory for Station: BICA0209

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01042	COPPER, TOTAL (UG/L AS CU)	01/12/77-07/14/77	4 ##	12.5	13.	22.	5.	86.	9.274	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	01/12/77-07/14/77	4	2095.	3310.	9000.	50.	16634733.333	4078.57	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	01/12/77-07/14/77	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/12/77-07/14/77	4	70.	99.975	239.9	20.	9524.003	97.591	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	01/12/77-07/14/77	4 ##	16.	16.25	28.	5.	168.917	12.997	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	01/12/77-07/14/77	4	21.	17.75	24.	5.	74.917	8.655	**	**	**	**
01082	STRONTIUM, TOTAL (UG/L AS SR)	01/12/77-07/14/77	4	3404.	4134.25	8329.	1400.	8869676.917	2978.2	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	01/12/77-07/14/77	4 ##	21.5	26.	56.	5.	642.	25.338	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	01/12/77-07/14/77	4	24.5	24.	42.	5.	302.	17.378	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	01/12/77-07/14/77	4	2215.	3602.25	9339.	640.	16810866.917	4100.106	**	**	**	**
01132	LITHIUM, TOTAL (UG/L AS LI)	01/12/77-07/14/77	4	95.	108.75	200.	45.	5072.917	71.224	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	01/12/77-07/14/77	4	2.	2.25	4.	1.	1.583	1.258	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/12/77-07/14/77	4	859.5	1022.	1566.	803.	133936.667	365.974	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/12/77-04/20/83	5	1071.	1181.	1646.	897.	100030.5	316.276	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/30/76-04/20/83	8 ##	0.015	0.017	0.04	0.005	0.	0.013	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	01/12/77-07/14/77	4 ##	0.325	0.338	0.6	0.1	0.062	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: BICA0209

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
00400	PH	Fresh Chronic	9.	8	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00			
		Other-Lo Lim.	6.5	8	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00			
00403	PH, LAB	Fresh Chronic	9.	5	0	0.00	1	0	0.00	3	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	5	0	0.00	1	0	0.00	3	0	0.00	1	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	7	0	0.00	3	0	0.00	2	0	0.00	2	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.	5	0	0.00	1	0	0.00	3	0	0.00	1	0	0.00			
		Drinking Water	250.	5	0	0.00	1	0	0.00	3	0	0.00	1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	5	5	1.00	1	1	1.00	3	3	1.00	1	1	1.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	50.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	4.	1 &	1	1.00				1	1	1.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	4	1	0.25	1	0	0.00	2	0	0.00	1	1	1.00			
		Drinking Water	5.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	4	2	0.50	1	1	1.00	2	1	0.50	1	0	0.00			
		Drinking Water	1300.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	15.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	100.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	5000.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	50.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	2.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			

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

Station Inventory for Station: BICA0210

NPS Station ID: BICA0210
LAT/LON: 45.481392/-107.769448
Agency: 21MTHDWQ
Date Created: 10/12/85
Location: BEAUVAIS CREEK 20 MI S OF HARDIN
FIPS State/County: 30003 MONTANA/BIG HORN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 2467BE01
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10080015
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: YELLOWSTONE RIVER
ECO Region:
RF1 Index: 10080015
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10080015003805.17
RF3 Mile Point: 5.43
Distance from RF3: 0.08
On/Off RF3:
Description:
OLD WEST SALINE SEEP

Parameter Inventory for Station: BICA0210

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/16/76-09/16/76	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/16/76-09/16/76	1	2535.	2535.	2535.	2535.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	09/16/76-09/16/76	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	09/16/76-09/16/76	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/16/76-09/16/76	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/16/76-09/16/76	1	114.	114.	114.	114.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/16/76-09/16/76	1	139.	139.	139.	139.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/16/76-09/16/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/16/76-09/16/76	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/16/76-09/16/76	1	960.	960.	960.	960.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/16/76-09/16/76	1	244.	244.	244.	244.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/16/76-09/16/76	1	85.	85.	85.	85.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/16/76-09/16/76	1	79.	79.	79.	79.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/16/76-09/16/76	1	5.4	5.4	5.4	5.4	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/16/76-09/16/76	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/16/76-09/16/76	1	960.	960.	960.	960.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/16/76-09/16/76	1	1520.	1520.	1520.	1520.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BICA0210

				Total	Exceed	Prop.	----------8/10-4/14----------			----------4/15-6/19----------			----------6/20-8/09----------			----------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	Fresh Chronic	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									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	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 Entire BICA Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	637	150	0.24	243	56	0.23	238	58	0.24	156	36	0.23			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	41	20	0.49	27	10	0.37	9	6	0.67	5	4	0.80			
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	91	21	0.23	39	15	0.38	26	4	0.15	26	2	0.08			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	617	26	0.04	383	22	0.06	161	0	0.00	73	4	0.05			
00400	PH	Fresh Chronic	9.	1490	3	0.00	923	1	0.00	304	1	0.00	263	1	0.00			
		Other-Lo Lim.	6.5	1490	2	0.00	923	0	0.00	304	1	0.00	263	1	0.00			
00403	PH, LAB	Fresh Chronic	9.	275	1	0.00	151	1	0.01	75	0	0.00	49	0	0.00			
		Other-Lo Lim.	6.5	275	0	0.00	151	0	0.00	75	0	0.00	49	0	0.00			
00406	PH, FIELD	Fresh Chronic	9.	502	0	0.00	186	0	0.00	152	0	0.00	164	0	0.00			
		Other-Lo Lim.	6.5	502	0	0.00	186	0	0.00	152	0	0.00	164	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	8	0	0.00	4	0	0.00	3	0	0.00	1	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	457	0	0.00	167	0	0.00	142	0	0.00	148	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	121	0	0.00	78	0	0.00	24	0	0.00	19	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	617	0	0.00	233	0	0.00	187	0	0.00	197	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	336	0	0.00	202	0	0.00	90	0	0.00	44	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	365	1	0.00	248	1	0.00	61	0	0.00	56	0	0.00			
00720	CYANIDE, TOTAL	Fresh Acute	0.022	1	0	0.00	1	0	0.00									
		Drinking Water	0.2	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1390	0	0.00	867	0	0.00	296	0	0.00	227	0	0.00			
		Drinking Water	250.	1390	0	0.00	867	0	0.00	296	0	0.00	227	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1396	944	0.68	871	652	0.75	297	180	0.61	228	112	0.49			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1202	0	0.00	780	0	0.00	236	0	0.00	186	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	153	0	0.00	68	0	0.00	45	0	0.00	40	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	31	0	0.00	23	0	0.00	5	0	0.00	3	0	0.00			
		Drinking Water	50.	31	1	0.03	23	1	0.04	5	0	0.00	3	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	18	0	0.00	6	0	0.00	8	0	0.00	4	0	0.00			
		Drinking Water	50.	18	0	0.00	6	0	0.00	8	0	0.00	4	0	0.00			
01005	BARIUM, DISSOLVED	Drinking Water	2000.	59	0	0.00	55	0	0.00	3	0	0.00	1	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	57	0	0.00	53	0	0.00	3	0	0.00	1	0	0.00			
		Drinking Water	4.	57	0	0.00	53	0	0.00	3	0	0.00	1	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	16	0	0.00	4	0	0.00	8	0	0.00	4	0	0.00			
		Drinking Water	4.	1 &	1	1.00				1	1	1.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	30 &	2	0.07	21	0	0.00	5	1	0.20	4	1	0.25			
		Drinking Water	5.	30 &	2	0.07	21	0	0.00	5	1	0.20	4	1	0.25			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	23 &	1	0.04	4	0	0.00	15	0	0.00	4	1	0.25			
		Drinking Water	5.	23 &	0	0.00	4	0	0.00	15	0	0.00	4	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	116	1	0.01	77	0	0.00	5	0	0.00	34	1	0.03			
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	17	0	0.00	5	0	0.00	8	0	0.00	4	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	129	26	0.20	84	18	0.21	8	0	0.00	37	8	0.22			
		Drinking Water	1300.	129	0	0.00	84	0	0.00	8	0	0.00	37	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	250	7	0.03	75	4	0.05	112	1	0.01	63	2	0.03			
		Drinking Water	1300.	250	0	0.00	75	0	0.00	112	0	0.00	63	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	83 &	44	0.53	42	14	0.33	6	0	0.00	35	30	0.86			
		Drinking Water	15.	83 &	45	0.54	42	14	0.33	6	0	0.00	35	31	0.89			
01051	LEAD, TOTAL	Fresh Acute	82.	19	0	0.00	7	0	0.00	8	0	0.00	4	0	0.00			
		Drinking Water	15.	19	0	0.00	7	0	0.00	8	0	0.00	4	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	100	0	0.00	67	0	0.00	3	0	0.00	30	0	0.00			
		Drinking Water	100.	100	19	0.19	67	1	0.01	3	0	0.00	30	18	0.60			
01067	NICKEL, TOTAL	Fresh Acute	1400.	17	0	0.00	4	0	0.00	9	0	0.00	4	0	0.00			
		Drinking Water	100.	17	1	0.06	4	0	0.00	9	1	0.11	4	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	61 &	9	0.15	56	9	0.16	4	0	0.00	1	0	0.00			
		Drinking Water	100.	62	0	0.00	57	0	0.00	4	0	0.00	1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	127	30	0.24	82	13	0.16	8	0	0.00	37	17	0.46			
		Drinking Water	5000.	127	0	0.00	82	0	0.00	8	0	0.00	37	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	241	16	0.07	69	3	0.04	112	6	0.05	60	7	0.12			
		Drinking Water	5000.	241	0	0.00	69	0	0.00	112	0	0.00	60	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	40	0	0.00	27	0	0.00	7	0	0.00	6	0	0.00			
		Drinking Water	50.	40	0	0.00	27	0	0.00	7	0	0.00	6	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	16	0	0.00	4	0	0.00	8	0	0.00	4	0	0.00			
		Drinking Water	50.	16	0	0.00	4	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

EPA Water Quality Criteria Analysis for Entire BICA Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/10-4/14 Obs	8/10-4/14 Exceed	8/10-4/14 Prop.	4/15-6/19 Obs	4/15-6/19 Exceed	4/15-6/19 Prop.	6/20-8/09 Obs	6/20-8/09 Exceed	6/20-8/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
04035	SIMAZINE, DISSOLVED, WATER, TOTAL RECOVE	Drinking Water	4.	4	0	0.00	2	0	0.00				2	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	102	8	0.08	53	7	0.13				49	1	0.02			
22705	URANIUM, NATURAL SUSPENDED	Drinking Water	20.	1	1	1.00							1	1	1.00			
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	19	6	0.32	14	4	0.29	3	2	0.67	2	0	0.00			
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	61	20	0.33	28	8	0.29	11	5	0.45	22	7	0.32			
31506	COLIFORM, TOTAL, MPN, CONF. TEST, TUBE C	Other-Hi Lim.	1000.	31	2	0.06	11	2	0.18	3	0	0.00	17	0	0.00			
31613	FECAL COLIFORM, MEMBRANE FILTER, AGAR	Other-Hi Lim.	200.	38	9	0.24	14	2	0.14	10	3	0.30	14	4	0.29			
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	273	36	0.13	155	15	0.10	58	14	0.24	60	7	0.12			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	56	14	0.25	25	7	0.28	14	3	0.21	17	4	0.24			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	62	14	0.23	34	3	0.09	15	7	0.47	13	4	0.31			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	166	86	0.52	112	45	0.40	30	20	0.67	24	21	0.88			
34653	P,P'-DDE, DISSOLVED	Fresh Acute	1050.	4	0	0.00	2	0	0.00				2	0	0.00			
38866	OXAMYL, DISSOLVED	Drinking Water	200.	4	0	0.00	2	0	0.00				2	0	0.00			
38933	CHLORPYRIFOS, DISSOLVED	Fresh Acute	0.083	4	0	0.00	2	0	0.00				2	0	0.00			
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	28	0	0.00	17	0	0.00	8	0	0.00	3	0	0.00			
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP.	Fresh Acute	3.	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39332	ALDRIN IN SUSP. FRAC. OF WAT. SAMP.	Fresh Acute	3.	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	28	0	0.00	17	0	0.00	8	0	0.00	3	0	0.00			
		Drinking Water	0.2	28	0	0.00	17	0	0.00	8	0	0.00	3	0	0.00			
39341	GAMMA-BHC(LINDANE), DISSOLVED	Fresh Acute	2.	13	0	0.00	8	0	0.00	1	0	0.00	4	0	0.00			
		Drinking Water	0.2	13	0	0.00	8	0	0.00	1	0	0.00	4	0	0.00			
39342	GAMMA-BHC(LINDANE), SUSPENDED	Fresh Acute	2.	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	0.2	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	26	0	0.00	16	0	0.00	8	0	0.00	2	0	0.00			
		Drinking Water	2.	26	0	0.00	16	0	0.00	8	0	0.00	2	0	0.00			
39352	CHLORDANE(TECH MIX & METABS), DISSOLVED	Fresh Acute	2.4	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	2.	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39353	CHLORDANE(TECH MIX & METABS), SUSPENDED	Fresh Acute	2.4	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	2.	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	28	0	0.00	17	0	0.00	8	0	0.00	3	0	0.00			
39361	DDD IN FILT. FRAC. OF WATER SMAPLE	Fresh Acute	0.6	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39362	DDD IN SUSP. FRAC. OF WATER SAMPLE	Fresh Acute	0.6	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	28	0	0.00	17	0	0.00	8	0	0.00	3	0	0.00			
39366	DDE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1050.	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39367	DDE IN SUSP. FRAC. OF WATER SAMPLE	Fresh Acute	1050.	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	28	0	0.00	17	0	0.00	8	0	0.00	3	0	0.00			
39371	DDT IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1.1	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39372	DDT IN SUSP. FRAC. OF WATER SAMPLE	Fresh Acute	1.1	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	28	0	0.00	17	0	0.00	8	0	0.00	3	0	0.00			
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	2.5	13	0	0.00	8	0	0.00	1	0	0.00	4	0	0.00			
39382	DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE	Fresh Acute	2.5	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39388	ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute	0.22	15	0	0.00	8	0	0.00	7	0	0.00						
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	28	0	0.00	17	0	0.00	8	0	0.00	3	0	0.00			
		Drinking Water	2.	28	0	0.00	17	0	0.00	8	0	0.00	3	0	0.00			
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.18	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	2.	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39392	ENDRIN IN SUSP. FRAC. OF WATER SAMPLE	Fresh Acute	0.18	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	2.	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	17	0	0.00	10	0	0.00	7	0	0.00						
		Drinking Water	3.	17	0	0.00	10	0	0.00	7	0	0.00						
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	28	0	0.00	17	0	0.00	8	0	0.00	3	0	0.00			
		Drinking Water	0.4	28	0	0.00	17	0	0.00	8	0	0.00	3	0	0.00			
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPL	Fresh Acute	0.52	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	0.4	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39412	HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPL	Fresh Acute	0.52	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	0.4	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	28	0	0.00	17	0	0.00	8	0	0.00	3	0	0.00			
		Drinking Water	0.2	28	0	0.00	17	0	0.00	8	0	0.00	3	0	0.00			
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER	Fresh Acute	0.52	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	0.2	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39422	HEPTACHLOR EPOXIDE IN SUSP. FRAC. WATER	Fresh Acute	0.52	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	0.2	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			

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

EPA Water Quality Criteria Analysis for Entire BICA Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------8/10-4/14---------- Obs	Exceed	Prop.	----------4/15-6/19---------- Obs	Exceed	Prop.	----------6/20-8/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	6	0	0.00	4	0	0.00	2	0	0.00						
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	24	0	0.00	14	0	0.00	8	0	0.00	2	0	0.00			
39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.065	13	0	0.00	8	0	0.00	1	0	0.00	4	0	0.00			
39543	PARATHION IN SUSP. FRAC. OF WATER SAMPLE	Fresh Acute	0.065	7	0	0.00	4	0	0.00	1	0	0.00	2	0	0.00			
39632	ATRAZINE DISSOLVED IN WATER	Drinking Water	3.	4	0	0.00	2	0	0.00				2	0	0.00			
39720	PICLORAM IN WHOLE WATER SAMPLE	Drinking Water	500.	34	0	0.00	14	0	0.00	9	0	0.00	11	0	0.00			
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	62	0	0.00	30	0	0.00	18	0	0.00	14	0	0.00			
39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	70.	13	0	0.00	8	0	0.00	1	0	0.00	4	0	0.00			
39733	2,4-D IN SUSP. FRAC. OF WATER SAMPLE	Drinking Water	70.	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
39760	SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	62	0	0.00	30	0	0.00	18	0	0.00	14	0	0.00			
39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	50.	13	0	0.00	8	0	0.00	1	0	0.00	4	0	0.00			
39763	SILVEX IN SUSP. FRAC. OF WATER SAMPLE	Drinking Water	50.	9	0	0.00	6	0	0.00	1	0	0.00	2	0	0.00			
46342	ALACHLOR (LASSO), WATER, DISSOLVED	Drinking Water	2.	4	0	0.00	2	0	0.00				2	0	0.00			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	117	0	0.00	70	0	0.00	29	0	0.00	18	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	818	2	0.00	528	1	0.00	165	0	0.00	125	1	0.01			
71856	NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	63	36	0.57	41	25	0.61	14	5	0.36	8	6	0.75			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	22	2	0.09	16	2	0.13	4	0	0.00	2	0	0.00			
		Drinking Water	2.	22	2	0.09	16	2	0.13	4	0	0.00	2	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	25	0	0.00	6	0	0.00	15	0	0.00	4	0	0.00			
		Drinking Water	2.	25	0	0.00	6	0	0.00	15	0	0.00	4	0	0.00			
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	31	11	0.35	19	6	0.32	3	2	0.67	9	3	0.33			

& - 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 BICA 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 BICA Study Area Exist for These Groups:

Alkalinity		Total Obs.	01/01/85 to 04/14/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	1060	0	378	682	37
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	23	0	0	23	4
00440	BICARBONATE ION (MG/L AS HCO3)	1244	0	199	1045	29
00445	CARBONATE ION (MG/L AS CO3)	927	0	113	814	25
		3254	0	690	2564	95 (45)[1]

pH		Total Obs.	01/01/85 to 04/14/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00400	PH (STANDARD UNITS)	1491	79	478	934	142
00403	PH, LAB (STANDARD UNITS)	275	39	100	136	19
00406	PH, FIELD (STANDARD UNITS)	502	0	0	502	9
		2268	118	578	1572	170(159)[1]

Conductivity		Total Obs.	01/01/85 to 04/14/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	2738	0	159	2579	21
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	1781	327	483	971	133
		4519	327	642	3550	154(150)[1]

Dissolved Oxygen		Total Obs.	01/01/85 to 04/14/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	91	0	0	91	1
00300	OXYGEN, DISSOLVED (MG/L)	617	48	295	274	30
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	7	0	7	0	1
		715	48	302	365	32 (31)[1]

Water Temperature		Total Obs.	01/01/85 to 04/14/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	7452	348	755	6349	159
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	280	257	0	23	18
		7732	605	755	6372	177(177)[1]

Flow		Total Obs.	01/01/85 to 04/14/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00058	FLOW RATE, GALLONS/MIN.	7	0	0	7	7
00060	FLOW, STREAM, MEAN DAILY CFS	1059	0	7	1052	5
00061	FLOW, STREAM, INSTANTANEOUS CFS	1087	343	480	264	17
00065	STAGE, STREAM (FEET)	52	52	0	0	1
		2205	395	487	1323	30 (24)[1]

[1]Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

Clarity/Turbidity		Total Obs.	01/01/85 to 04/14/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00070	TURBIDITY, (JACKSON CANDLE UNITS)	637	0	86	551	14
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	3	0	0	3	1
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	41	0	41	0	4
00077	TRANSPARENCY, SECCHI DISC (INCHES)	20	0	20	0	7
00078	TRANSPARENCY, SECCHI DISC (METERS)	37	0	37	0	9
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	35	0	35	0	6
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	31	0	31	0	4
		804	0	250	554	45 (37)[1]

Nitrate/Nitrogen		Total Obs.	01/01/85 to 04/14/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00600	NITROGEN, TOTAL (MG/L AS N)	167	1	41	125	5
00602	NITROGEN, DISSOLVED (MG/L AS N)	101	0	0	101	3
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	38	1	36	1	3
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10	0	1	9	2
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	806	41	304	461	36
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	121	0	55	66	3
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	617	0	48	569	32
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	333	42	279	12	22
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	336	50	274	12	24
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	365	28	222	115	4
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	4	0	4	0	2
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	67	0	1	66	4
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	117	0	0	117	2
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	819	0	55	764	15
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	63	0	1	62	5
		3964	163	1321	2480	162 (61)[1]

Phosphate/Phosphorus		Total Obs.	01/01/85 to 04/14/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	131	0	2	129	4
00655	PHOSPHATE, POLY (MG/L AS PO4)	74	0	0	74	3
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	663	0	44	619	14
00665	PHOSPHORUS, TOTAL (MG/L AS P)	631	65	505	61	69
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	255	9	161	85	3
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	342	0	274	68	21
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	60	0	31	29	15
		2156	74	1017	1065	129 (87)[1]

Chlorophyll		Total Obs.	01/01/85 to 04/14/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
32210	CHLOROPHYLL A (UG/L) TRICHROMATIC UNCORRECTED	38	0	38	0	9
32217	CHLOROPHYLL A (UG/L) FLUOROMETRIC UNCORRECTED	21	0	21	0	7
		59	0	59	0	16 (16)[1]

Sulfates/Total Dissolved Solids/Hardness		Total Obs.	01/01/85 to 04/14/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00900	HARDNESS, TOTAL (MG/L AS CACO3)	1233	9	290	934	30
00945	SULFATE, TOTAL (MG/L AS SO4)	1397	28	301	1068	33
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	828	0	16	812	18
		3458	37	607	2814	81 (38)[1]

[1]Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

Bacteria		Total Obs.	01/01/85 to 04/14/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
31501	COLIFORM, TOT, MEMBRANE FILTER,IMMED.M-ENDOMED,35C	19	0	2	17	4
31505	COLIFORM, TOT, MPN, CONFIRMED TEST,35C(TUBE 31506)	61	0	2	59	3
31506	COLIFORM, TOT, MPN, CONFIRMED TEST, TUBE CONFIG.	31	31	0	0	2
31613	FECAL COLIFORM, MEMBR, FILTER,M-FC AGAR,44.5C,24HR	40	22	18	0	3
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	273	13	245	15	2
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	56	0	0	56	1
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C	64	0	47	17	5
31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	166	49	117	0	3
		710	115	431	164	23 (13)[1]

[1]Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

Toxic Elements		Total Obs.	01/01/85 to 04/14/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
01000	ARSENIC, DISSOLVED (UG/L AS AS)	31	17	0	14	4
01002	ARSENIC, TOTAL (UG/L AS AS)	18	0	16	2	5
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	57	11	38	8	38
01012	BERYLLIUM, TOTAL (UG/L AS BE)	16	0	16	0	4
01025	CADMIUM, DISSOLVED (UG/L AS CD)	32	17	0	15	4
01027	CADMIUM, TOTAL (UG/L AS CD)	27	0	16	11	12
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	116	19	84	13	85
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	2	0	0	2	2
01034	CHROMIUM, TOTAL (UG/L AS CR)	17	0	16	1	5
01040	COPPER, DISSOLVED (UG/L AS CU)	129	19	84	26	87
01042	COPPER, TOTAL (UG/L AS CU)	250	0	16	234	22
01049	LEAD, DISSOLVED (UG/L AS PB)	85	19	46	20	51
01051	LEAD, TOTAL (UG/L AS PB)	19	0	16	3	6
71890	MERCURY, DISSOLVED (UG/L AS HG)	22	17	0	5	2
71900	MERCURY, TOTAL (UG/L AS HG)	25	0	16	9	11
01065	NICKEL, DISSOLVED (UG/L AS NI)	100	10	84	6	84
01067	NICKEL, TOTAL (UG/L AS NI)	17	0	17	0	4
01145	SELENIUM, DISSOLVED (UG/L AS SE)	40	34	0	6	6
01147	SELENIUM, TOTAL (UG/L AS SE)	16	0	16	0	4
01075	SILVER, DISSOLVED (UG/L AS AG)	62	17	38	7	39
01090	ZINC, DISSOLVED (UG/L AS ZN)	127	17	84	26	88
01092	ZINC, TOTAL (UG/L AS ZN)	241	0	16	225	22
00720	CYANIDE, TOTAL (MG/L AS CN)	1	0	0	1	1
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	28	0	17	11	3
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	9	0	0	9	1
39332	ALDRIN IN SUSP. FRAC. OF WAT. SAMP. (UG/L)	9	0	0	9	1
34253	A-BHC-ALPHA, DISSOLVED (UG/L)	4	4	0	0	2
39340	GAMMA-BHC(LINDANE), WHOLE WATER (UG/L)	28	0	17	11	3
39341	GAMMA-BHC(LINDANE), DISSOLVED (UG/L)	13	4	0	9	2
39342	GAMMA-BHC(LINDANE), SUSPENDED (UG/L)	9	0	0	9	1
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATER (UG/L)	26	0	17	9	2
39352	CHLORDANE(TECH MIX & METABS), DISSOLVED (UG/L)	9	0	0	9	1
39353	CHLORDANE(TECH MIX & METABS), SUSPENDED (UG/L)	9	0	0	9	1
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	28	0	17	11	3
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	9	0	0	9	1
39372	DDT IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	9	0	0	9	1
34653	P,P'-DDE, DISSOLVED (UG/L)	4	4	0	0	2
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	28	0	17	11	3
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	9	0	0	9	1
39367	DDE IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	9	0	0	9	1
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	28	0	17	11	3
39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	9	0	0	9	1
39362	DDD IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	9	0	0	9	1
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	28	0	17	11	3
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	13	4	0	9	2
39382	DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	9	0	0	9	1
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	28	0	17	11	3
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	9	0	0	9	1
39392	ENDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	9	0	0	9	1
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	28	0	17	11	3
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	9	0	0	9	1
39412	HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	9	0	0	9	1
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	28	0	17	11	3
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT. SAM. (UG/L)	9	0	0	9	1
39422	HEPTACHLOR EPOXIDE IN SUSP. FRAC. WAT. SAM. (UG/L)	9	0	0	9	1

[1]Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

Toxic Elements - Continued ...		Total Obs.	01/01/85 to 04/14/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	17	0	17	0	2
		1941	213	806	922	643(114)[1]

[1]Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

NPS Servicewide Inventory and Monitoring Program Level I

Water Quality Parameter Inventory Data Evaluation and Analysis:

Park Summary: Level I Group Currentness and Distribution

Parameter Group	Total Obs.	Obs. Since 1985	% Obs. Since 1985	Stations Measuring This Group	% of Total Stations Measuring This Group	Obs. Per Station Measuring This Group	Period of Record For This Group	Observations Per Year of Period of Record
Alkalinity	3254	0	0.0	45	21.7	72.3	03/26/47-04/20/83	90.2
pH	2268	118	5.2	159	76.8	14.3	03/26/47-04/14/97	45.3
Conductivity	4519	327	7.2	150	72.5	30.1	03/26/47-04/14/97	90.3
Dissolved Oxygen	715	48	6.7	31	15.0	23.1	05/27/57-04/14/97	17.9
Water Temperature	7732	605	7.8	177	85.5	43.7	06/25/47-04/14/97	155.2
Flow	2205	395	17.9	24	11.6	91.9	03/26/47-04/14/97	44.1
Clarity/Turbidity	804	0	0.0	37	17.9	21.7	02/22/68-09/08/83	51.7
Nitrate/Nitrogen	3964	163	4.1	61	29.5	65.0	03/26/47-08/23/89	93.5
Phosphate/Phosphorus	2156	74	3.4	87	42.0	24.8	02/22/68-08/23/89	100.3
Chlorophyll	59	0	0.0	16	7.7	3.7	05/21/75-11/26/80	10.7
Sulfates/Total Dissolved Solids/Hardness	3458	37	1.1	38	18.4	91.0	03/26/47-07/26/88	83.7
Bacteria	710	115	16.2	13	6.3	54.6	03/24/67-09/06/95	24.9
Toxic Elements	1941	213	11.0	114	55.1	17.0	05/27/57-07/30/96	49.5

Water Quality Observations
Outside STORET Edit Criteria for BICA

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
BICA0002	00070	TURBIDITY, (JACKSON CANDLE UNITS)	800409	1030	3900.0000000	112WRD	06279500	
BICA0002	00070	TURBIDITY, (JACKSON CANDLE UNITS)	800729	1000	1900.0000000	112WRD	06279500	
BICA0002	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	801017	1215	2400.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	651101		5000.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	651111		5000.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	651121		4000.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	651201		5000.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	651213		5000.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660101		3000.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660111		3000.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660120		3000.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660201		7600.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660211		7700.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660219		7600.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660301		7800.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660313		8000.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660323		8000.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660401		8100.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660408		7500.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660418		7900.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660501		3000.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660508		3000.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660516		3000.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660523		3000.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660601		7100.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660611		7200.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660701		7700.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660709		8000.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660725		7400.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660801		7700.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660813		7800.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660901		7300.0000000	112WRD	06279500	
BICA0002	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660921		7400.0000000	112WRD	06279500	
BICA0006	00070	TURBIDITY, (JACKSON CANDLE UNITS)	680601		2900.0000000	11NPSWRD	BICA_SOLT_BIGHO	
BICA0006	00070	TURBIDITY, (JACKSON CANDLE UNITS)	680612		4900.0000000	11NPSWRD	BICA_SOLT_BIGHO	
BICA0006	00070	TURBIDITY, (JACKSON CANDLE UNITS)	680819		1600.0000000	11NPSWRD	BICA_SOLT_BIGHO	
BICA0006	00070	TURBIDITY, (JACKSON CANDLE UNITS)	690414		3600.0000000	11NPSWRD	BICA_SOLT_BIGHO	
BICA0006	00070	TURBIDITY, (JACKSON CANDLE UNITS)	690428		1700.0000000	11NPSWRD	BICA_SOLT_BIGHO	
BICA0006	00070	TURBIDITY, (JACKSON CANDLE UNITS)	690624		1710.0000000	11NPSWRD	BICA_SOLT_BIGHO	
BICA0006	00070	TURBIDITY, (JACKSON CANDLE UNITS)	690721		1680.0000000	11NPSWRD	BICA_SOLT_BIGHO	
BICA0019	00070	TURBIDITY, (JACKSON CANDLE UNITS)	800409	1355	1800.0000000	112WRD	06285100	

Water Quality Observations
Outside STORET Edit Criteria for BICA

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	621005		4000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	621109		5000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	621203		5000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630102		4000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630204		5000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630304		4000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630401		6000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630503		8000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630603		5000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630703		5000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630809		13000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630903		20000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630930		9000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	631104		4000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	631202		7000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	640106		4000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	640203		5000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	640302		6000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	640403		4000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	640507		35000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	640605		4000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	640702		8000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	640807		5000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	640905		2000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	651101		4000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	651111		2000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	651121		5000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	651201		5000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	651212		5000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	651222		10000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660101		3000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660111		2000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660121		2000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660201		7900.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660207		7800.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660215		7800.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660301		8000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660314		8000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660323		8000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660401		7700.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660412		7700.0000000	112WRD	06286200	

Water Quality Observations
Outside STORET Edit Criteria for BICA

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660418		7700.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660501		5000.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660601		7100.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660616		7300.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660701		7700.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660710		7700.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660719		7700.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660801		7600.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660815		7700.0000000	112WRD	06286200	
BICA0026	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	660901		7300.0000000	112WRD	06286200	
BICA0029	00070	TURBIDITY, (JACKSON CANDLE UNITS)	680612		2220.0000000	11NPSWRD	BICA_SOLT_SHOSH	
BICA0029	00070	TURBIDITY, (JACKSON CANDLE UNITS)	680624		1750.0000000	11NPSWRD	BICA_SOLT_SHOSH	
BICA0029	00070	TURBIDITY, (JACKSON CANDLE UNITS)	690407		2540.0000000	11NPSWRD	BICA_SOLT_SHOSH	
BICA0039	00070	TURBIDITY, (JACKSON CANDLE UNITS)	680607		3350.0000000	11NPSWRD	BICA_SOLT_5	
BICA0076	01049	LEAD, DISSOLVED (UG/L AS PB)	780705	0800	1544.0000000	11NPSWRD	BICA_NURE_105	
BICA0078	01049	LEAD, DISSOLVED (UG/L AS PB)	780705	0900	1923.0000000	11NPSWRD	BICA_NURE_017	
BICA0081	01049	LEAD, DISSOLVED (UG/L AS PB)	780705	0800	3371.0000000	11NPSWRD	BICA_NURE_098	
BICA0082	01049	LEAD, DISSOLVED (UG/L AS PB)	780705	0800	5250.0000000	11NPSWRD	BICA_NURE_016	
BICA0085	01049	LEAD, DISSOLVED (UG/L AS PB)	780705	1100	1859.0000000	11NPSWRD	BICA_NURE_129	
BICA0086	01049	LEAD, DISSOLVED (UG/L AS PB)	780705	1200	3557.0000000	11NPSWRD	BICA_NURE_019	
BICA0088	01049	LEAD, DISSOLVED (UG/L AS PB)	780630	2000	3398.0000000	11NPSWRD	BICA_NURE_107	
BICA0089	01049	LEAD, DISSOLVED (UG/L AS PB)	780630	2000	3409.0000000	11NPSWRD	BICA_NURE_020	
BICA0090	01049	LEAD, DISSOLVED (UG/L AS PB)	780715	1500	1478.0000000	11NPSWRD	BICA_NURE_018	
BICA0091	01049	LEAD, DISSOLVED (UG/L AS PB)	780630	1900	1400.0000000	11NPSWRD	BICA_NURE_108	
BICA0093	01049	LEAD, DISSOLVED (UG/L AS PB)	780630	1900	2857.0000000	11NPSWRD	BICA_NURE_048	
BICA0094	01049	LEAD, DISSOLVED (UG/L AS PB)	780630	1900	3312.0000000	11NPSWRD	BICA_NURE_128	
BICA0095	01049	LEAD, DISSOLVED (UG/L AS PB)	780705	1500	1473.0000000	11NPSWRD	BICA_NURE_012	
BICA0098	01049	LEAD, DISSOLVED (UG/L AS PB)	780705	1400	1207.0000000	11NPSWRD	BICA_NURE_028	
BICA0101	01049	LEAD, DISSOLVED (UG/L AS PB)	780705	1700	1841.0000000	11NPSWRD	BICA_NURE_029	
BICA0109	01049	LEAD, DISSOLVED (UG/L AS PB)	780630	1300	1619.0000000	11NPSWRD	BICA_NURE_011	
BICA0111	01049	LEAD, DISSOLVED (UG/L AS PB)	780414	1100	1744.0000000	11NPSWRD	BICA_NURE_031	
BICA0112	01049	LEAD, DISSOLVED (UG/L AS PB)	780714	1200	1473.0000000	11NPSWRD	BICA_NURE_109	
BICA0114	01049	LEAD, DISSOLVED (UG/L AS PB)	780714	1300	2123.0000000	11NPSWRD	BICA_NURE_111	
BICA0118	01049	LEAD, DISSOLVED (UG/L AS PB)	780714	1500	2321.0000000	11NPSWRD	BICA_NURE_033	
BICA0119	01049	LEAD, DISSOLVED (UG/L AS PB)	780714	1500	1205.0000000	11NPSWRD	BICA_NURE_113	
BICA0121	01049	LEAD, DISSOLVED (UG/L AS PB)	780714	1500	1210.0000000	11NPSWRD	BICA_NURE_034	
BICA0181	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	760701	1030	57.0000000	21MTHDWQ	2266BI01	X
BICA0181	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	770706		48.0000000	21MTHDWQ	2266BI01	X
BICA0186	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	770607	1600	77.0000000	21MTHDWQ	2267SO01	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) <u>BICATABS.ZIP</u>

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

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

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

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

(d) BICAOV0.DOC - Overview of park and retrieved data.

(e) BICAOV1.DOC - Station period of record table.

(f) BICAOV2.DOC - Parameter period of record table.

(g) BICAOV3.DOC - Station/parameter period of record table.

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

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

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

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

(l) BICABAD.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 BICAOV1.DOC is in the subdirectory C:\WATER, you could type: PRINT C:\WATER\BICAOV1.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) BICAFIGS.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 BICA0001. 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 BICA0001) 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) BICAPARM.ZIP

This file compresses BICAPARM.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) BICASITE.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) BICAWQ.DBF - All water quality monitoring station locations within the project's study area downloaded from STORET.

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

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

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

(e) BICADAMS.DBF - All water impoundments within the project's study area downloaded from the DAMS database.

The absence of any of these files indicates that none of the particular sites were found within the study area. Detailed database structures for each of these files are contained in Appendix B.

(5) BICAMISC.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) BICAEXEC.DOC - WordPerfect Ver. 5.1 copy of the Executive Summary in the report.

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

(f) BICAWQ - 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 (BICAWQA, BICAWQB, BICAWQC, etc.) and the index map name will end with an ampersand (&).

(g) BICAIDG - 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 (BICAIDGA, BICAIDGB, BICAIDGC, 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) BICASEHY - 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 BICAFIGS.ZIP and BICATABS.ZIP, you can use the PRINTZIP program to print any of the PCL files in BICAMISC.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) BICARF3.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) BICAWQMW.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: BICAPARM.DBF in BICAPARM.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: BICAPARM.DBF in BICAPARM.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: BICAPARM.DBF in BICAPARM.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: BICAWQ.DBF in BICASITE.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: BICAWQ.DBF in BICASITE.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: BICAIFD.DBF in BICASITE.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: BICAIFD.DBF in BICASITE.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: BICAIFD.DBF in BICASITE.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: BICADRIN.DBF in BICASITE.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: BICADRIN.DBF in BICASITE.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: BICADRIN.DBF in BICASITE.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: BICAGAGE.DBF in BICASITE.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: BICAGAGE.DBF in BICASITE.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: BICADAMS.DBF in BICASITE.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: BICADAMS.DBF in BICASITE.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: BICADAMS.DBF in BICASITE.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: BICADAMS.DBF in BICASITE.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 BICARF3.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 BICARF3.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 BICARF3.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 BICARF3.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 BICARF3.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 BICARF3.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+	1300[a]	2.9		COPPER, DISSOLVED	UG/L	Metal
7440508	01041	18+	1300[a]	2.9		COPPER, SUSPENDED	UG/L	Metal
7440508	01042	18+	1300[a]	2.9		COPPER, TOTAL	UG/L	Metal
7439921	01049	82+	15[a]	220		LEAD, DISSOLVED	UG/L	Metal
7439921	01050	82+	15[a]	220		LEAD, SUSPENDED	UG/L	Metal
7439921	01051	82+	15[a]	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		0.020[c]			URANIUM, POTENTIALLY DISSOLVED, WATER	MG/L	Metal
7440224	01523	4.1[+]	100[s]	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		20[r]			TRITIUM, TOTAL, WATER	PC/ML	Radiological
10028178	07000		20000[r]			TRITIUM, TOTAL	PC/L	Radiological
10028178	07005		20000[r]			TRITIUM, DISSOLVED	PC/L	Radiological
10028178	07010		20000[r]			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		8.0[r]			STRONTIUM 90, TOTAL	PC/L	Radiological
10098972	13503		8.0[r]			STRONTIUM 90, DISSOLVED	PC/L	Radiological
10098972	13505		8.0[r]			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		20[c]			URANIUM, NATURAL DISSOLVED	UG/L	Metal
7440611	22705		20[c]			URANIUM, NATURAL SUSPENDED	UG/L	Metal
7440611	22706		20[c]			URANIUM, TOTAL AS U308	UG/L	Metal
7440611	22708		0.020[c]			URANIUM, NATURAL, TOTAL	MG/L	Radiological
7440611	28011		20[c]			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		1.0[n]		1000[b]	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	CFU/100ML	Bacteriological
	31503		1.0[n]		1000[b]	COLIFORM, TOTAL, MEMBRANE FILTER, DELAY. M-ENDO	CFU/100ML	Bacteriological
	31504		1.0[n]		1000[b]	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED. LES-ENDO	CFU/100ML	Bacteriological
	31505		1.0[n]		1000[b]	COLIFORM, TOTAL, MPN, CONF. TEST 35C (TUBE 31506)	MPN/100ML	Bacteriological
	31506		1.0[n]		1000[b]	COLIFORM, TOTAL, MPN, CONF. TEST, TUBE CONFIG	MPN/100ML	Bacteriological
	31507		1.0[n]		1000[b]	COLIFORM, TOTAL, MPN, COMP. TEST 35C (TUBE 31508)	MPN/100ML	Bacteriological
	31508		1.0[n]		1000[b]	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*	100t			CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL	UG/L	General Organic
67663	32005	28900*	100t			CARBON CHLOROFORM EXTRACTABLES	UG/L	General Organic
67663	32021	28900*	100t			CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLES OF	UG/L	General Organic
67663	32022	28900*	100t			CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES OF	UG/L	General Organic
75274	32101		100t			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		100t			BROMOFORM, WHOLE WATER	UG/L	General Organic
124481	32105		100t			DIBROMOCHLOROMETHANE, WHOLE WATER	UG/L	General Organic
67663	32106	28900*	100t			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*	0.1t			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		250[s]			SULFATE, WATER, DISSOLVED AS S	MG/L	Metal
85007	78885		20			DIQUAT DIBROMIDE (REGLONE) WHOLE WATER SAMPLE	UG/L	Pesticide
7440611	80020		20[c]			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+	1300[a]	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[1]	TURBIDITY, FIELD	NTU	Physical
	82079				50[1]	TURBIDITY, LAB	NTU	Physical
88857	82226		7.0			2 SECONDARY BUTYL 4,6-DINITROPHENOL	UG/L	Pesticide
16887006	82295	860000	250000[s]			CHLORIDE DISSOLVED AS CL IN WATER	UG/L	General Inorganic
72435	82350		40			METHOXYCHLOR, DISSOLVED IN WATER	UG/L	Pesticide
72435	82351		40			METHOXYCHLOR, SUSPENDED IN WATER	UG/L	Pesticide
115297	82354	0.22		0.034		ENDOSULFAN, DISSOLVED IN WATER	UG/L	Pesticide
115297	82355	0.22		0.034		ENDOSULFAN, SUSPENDED IN WATER	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
57125	82573	0.022	0.2	0.001		CYANIDE/CHLORINATION IN WATER	MG/L	General Inorganic
1646873	82586		4.0			ALDICARB SULFOXIDE, WATER, TOTAL RECOVERABLE	UG/L	General Organic
1646884	82587		2.0			ALDICARB SULFONE, WHOLE WATER, TOTAL RECOVERABLE	UG/L	General Organic
23135220	82613		200			OXAMYL, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
1563662	82615		40			CARBOFURAN, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
116063	82619		3.0			ALDICARB, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
33213659	82624	0.22		0.034		ENDOSULFAN, BETA, WH WATER, TOTAL RECOVERABLE	UG/L	Pesticide
96128	82625		0.2			DIBROMOCHLOROPROPANE, WATER, TOTAL RECOVERABLE	UG/L	Pesticide

Footnote Key:

[*]Insufficient Data to Develop Criteria. Value Presented is the L.O.E.L. - Lowest Observed Effect Level.
[+]Hardness Dependent Criteria (100 mg/L $CaCO_3$ Used).
[***]pH Dependent Criteria (7.8 pH Used).
[=]Rule of thumb criterion used by the NPS Air Quality Division for determining sensitivity to acid deposition.
[^]Freshwater bathing criterion, EPA geometric mean based on at least 5 samples equally spaced over a 30-day period; Enterococci marine water bathing criterion 35 CFU/100 ml.
[#]EPA freshwater aquatic life chronic criterion; marine criterion is ≤6.5, ≥8.5.
[!]Arizona state standard.
[a]EPA action level, 40 CFR 141.80.
[b]California and Florida state bathing water standards.
[c]A Compilation of Water Quality Goals, California Regional Water Quality Control Board Central Valley Region, Sacramento, California, September, 1991.
[n]Total coliform drinking water maximum contaminant level (1 cfu/100ml or 1 mpn/100ml) was not used in water quality criteria comparisons.
[p]Proposed Criterion.
[r]Average annual concentration assumed to produce a total body or organ dose of 4 mrem/year, 40 CFR 141.16.
[s]EPA National Secondary Drinking Water Regulation, 40 CFR 143.
[t]The maximum contaminant level for the sum of the concentrations of trihalomethanes is 100 µg/L, 40 CFR 141.12.
[u]Coldwater criterion one day minimum; warmwater criterion seven day mean minimum.

Appendix G

Inventory Data Evaluation and Analysis (IDEA)
Servicewide Inventory and Monitoring Program "Level I"
Parameter Groups

The following table provides the Servicewide Inventory and Monitoring Program's "Level I" water quality inventory parameter groups (National Park Service 1993). In order to determine the presence and/or absence of data for each of these parameter groups in the park, the parameter groups had to be defined by STORET parameter codes. This table provides the STORET codes and parameter descriptions for each parameter comprising one of the Servicewide Inventory and Monitoring Program's "Level I" water quality parameter groups. Additional parameters could have been incorporated into each group, but an effort was made to represent each group with the parameters deemed to most likely occur in STORET and parks. The Toxic Elements Parameter Group was defined as the EPA's Clean Water Act Section 304(a) Priority Toxic Pollutants (40 CFR 131.36). Parameters are listed in ascending order of STORET code within each parameter group. It is important to note that similar parameters often have non-consecutive codes. Consequently, scanning the entire list is necessary to find all the parameters of a particular type (eg. lead, copper, etc.). Refer to the Parameter Period of Record Tabulation to obtain the STORET code for any parameter measured in the park.

STORET Code	Water Temperature Parameter Group	C.A.S. Number
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	-
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	-
STORET Code	**Flow Parameter Group[1]**	**C.A.S. Number**
00056	FLOW RATE, GALLONS/DAY	-
00058	FLOW RATE, GALLONS/MIN.	-
00059	FLOW RATE, INSTANTANEOUS, GALLONS/MINUTE	-
00060	FLOW, STREAM, MEAN DAILY CFS	-
00061	FLOW, STREAM, INSTANTANEOUS CFS	-
00065	STAGE, STREAM (FEET)	-
00067	TIDE STAGE CODE	-
00072	STAGE, STREAM (METERS)	-

[1]Tide stage is included in the Flow Parameter Group for coastal parks.

STORET Code	Clarity/Turbidity Parameter Group	C.A.S. Number
00070	TURBIDITY, (JACKSON CANDLE UNITS)	-
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	-
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	-
00077	TRANSPARENCY, SECCHI DISC (INCHES)	-
00078	TRANSPARENCY, SECCHI DISC (METERS)	-
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	-
82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS NTU	-
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	-

STORET Code	Conductivity Parameter Group	C.A.S. Number
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	-
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	-
00096	SALINITY AT 25 DEGREES C (MG/ML)	-
00480	SALINITY - PARTS PER THOUSAND	-

STORET Code	Dissolved Oxygen Parameter Group	C.A.S. Number
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	7782447
00300	OXYGEN, DISSOLVED (MG/L)	7782447
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	7782447
00389	OXYGEN, DISSOLVED, LAB ANAL. BY PROBE OF FIELD SAMPLE (MG/L)	7782447

STORET Code	pH Parameter Group	C.A.S. Number
00400	PH (STANDARD UNITS)	-
00403	PH, LAB (STANDARD UNITS)	-
00406	PH, FIELD (STANDARD UNITS)	-

STORET Code	Alkalinity Parameter Group	C.A.S. Number
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYSIS (µEQ/L)	471341
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	471341
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	77098
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	471341
00435	ACIDITY, TOTAL (MG/L AS CACO3)	471341
00440	BICARBONATE ION (MG/L AS HCO3)	71523
00445	CARBONATE ION (MG/L AS CO3)	3812326
STORET Code	**Nitrate/Nitrogen Parameter Group**	**C.A.S. Number**
00600	NITROGEN, TOTAL (MG/L AS N)	17778880
00602	NITROGEN, DISSOLVED (MG/L AS N)	17778880
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	17778880
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	17778880
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	17778880
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	17778880
00612	AMMONIA, UNIONZED (MG/L AS N)	7664417
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	17778880
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	17778880
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	17778880
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	17778880
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	17778880
00631	NITRITE PLUS NITRATE, DISSOLVED 1 DET. (MG/L AS N)	17778880
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	14798039
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	14798039
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	14797558
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	14797558
71855	NITRITE NITROGEN, TOTAL (MG/L AS NO2)	14797650
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	14797650

STORET Code	Phosphate/Phosphorus Parameter Group	C.A.S. Number
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	14265442
00655	PHOSPHATE, POLY (MG/L AS PO4)	14265442
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	14265442
00665	PHOSPHORUS, TOTAL (MG/L AS P)	7723140
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	7723140
00670	PHOSPHORUS, TOTAL ORGANIC (MG/L AS P)	7723140
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	7723140
70505	PHOSPHORUS, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	7723140
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	7723140

STORET Code	Sulfates/Total Dissolved Solids/Hardness Parameter Group	C.A.S. Number
00900	HARDNESS, TOTAL (MG/L AS CACO3)	471341
00945	SULFATE, TOTAL (MG/L AS SO4)	14808798
00946	SULFATE, DISSOLVED (MG/L AS SO4)	14808798
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	-

STORET Code	Chlorophyll Parameter Group	C.A.S. Number
32209	CHLOROPHYLL A (UG/L) FLUOROMETRIC CORRECTED	479618
32210	CHLOROPHYLL A (UG/L) TRICHROMATIC UNCORRECTED	479618
32211	CHLOROPHYLL A (UG/L) SPECTROPHOTOMETRIC ACID METH.	479618
32217	CHLOROPHYLL A (UG/L) FLUOROMETRIC UNCORRECTED	479618
32223	CHLOROPHYLL A (MG/M2) SPECTROPHOTOMETRIC CORRECTED	479618
32228	CHLOROPHYLL A (MG/M2) PERIPHYTON SPECTRO.	479618
32229	CHLOROPHYLL A (MG/M2) FLUOR. CORRECTED, SUBSTRATER	479618
32230	CHLOROPHYLL A (MG/L)	479618

STORET Code	Bacteria Parameter Group	C.A.S. Number
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	-
31501	COLIFORM, TOT, MEMBRANE FILTER, IMMED., M-ENDO MED,35C	-
31503	COLIFORM, TOT, MEMBRANE FILTER, DELAY, M-ENDO MED, 35C	-
31504	COLIFORM, TOT, MEMBRANE FILTER, IMMED., LES-ENDO AGAR, 35C	-
31505	COLIFORM, TOT, MPN, CONFIRMED TEST,35C(TUBE 31506)	-
31506	COLIFORM, TOT, MPN, CONFIRMED TEST, TUBE CONFIG.	-
31507	COLIFORM, TOT, MPN, COMPLETED TEST,35C(TUBE 31508)	-
31508	COLIFORM, TOT, MPN, COMPLETED TEST, TUBE CONFIG.	-
31613	FECAL COLIFORM, MEMBR, FILTER,M-FC AGAR,44.5C,24HR	-
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	-
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	-
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C	-
31617	FECAL COLIFORM, MPN,EIJKMAN TEST,44.5C(TUBE 31618)	-
31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	-
31648	E. COLI - MTEC-MF	-
31649	ENTEROCOCCI- ME-MF	-
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	-
31676	FECAL STREPTOCOCCI, MPN, KF BROTH, TUBE CONFIG.	-
31677	FECAL STREPTOCOCCI, MPN, AD-EVA, 35C (TUBE 31678)	-
31751	PLATE COUNT, TOTAL, TPC AGAR, 35C, 24 HRS	-

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants)	C.A.S. Number
00718	CYANIDE, WEAK ACID, DISSOC. WATER, WHOLE (UG/L)	57125
00719	CYANIDE, FREE, IN WATER & WASTEWATERS, HBG (UG/L)	57125
00720	CYANIDE, TOTAL (MG/L AS CN)	57125
00722	CYANIDE, FREE (AMENABLE TO CHLORINATION) (MG/L)	57125
00723	CYANIDE, DISSOLVED STD METHOD (UG/L)	57125
00724	CYANIDE COMPLEXED TO A RANGE OF COMPNDS (UG/L)	57125

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
00969	CHRYSOTILE ASBESTOS FIBERS/LITER	1332214
00973	AMPHIBOLE ASBESTOS FIBERS/LITER	1332214
00976	AMBIGUOUS ASBESTOS FIBERS/LITER	1332214
00977	NON-AMPHIBOLE NON-CHRYSOTILE ASBESTOS FIBERS/LITER	1332214
00978	ARSENIC, TOTAL RECOVERABLE IN WATER AS AS	7440382
00981	SELENIUM, TOTAL RECOVERABLE IN WATER AS SE (UG/L)	7782492
00982	THALLIUM, TOTAL RECOVERABLE IN WATER AS (UG/L)	7440280
00990	SELENITE, TOTAL RECOVERABLE INORGANIC (UG/L)	7782492
00991	ARSENIC, TOTAL RECOVER. TRIVALENT INORGANIC (UG/L)	7440382
00995	ARSENIC, INORGANIC DISSOLVED (UG/L AS AS)	7440382
00996	ARSENIC, INORGANIC SUSPENDED (UG/L AS AS)	7440382
00997	ARSENIC, INORGANIC TOTAL (UG/L AS AS)	7440382
00998	BERYLLIUM, TOTAL RECOVERABLE IN WATER AS BE (UG/L)	7440417
01000	ARSENIC, DISSOLVED (UG/L AS AS)	7440382
01001	ARSENIC, SUSPENDED (UG/L AS AS)	7440382
01002	ARSENIC, TOTAL (UG/L AS AS)	7440382
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	7440417
01011	BERYLLIUM, SUSPENDED (UG/L AS BE)	7440417
01012	BERYLLIUM, TOTAL (UG/L AS BE)	7440417
01025	CADMIUM, DISSOLVED (UG/L AS CD)	7440439
01026	CADMIUM, SUSPENDED (UG/L AS CD)	7440439
01027	CADMIUM, TOTAL (UG/L AS CD)	7440439
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	7440473
01031	CHROMIUM, SUSPENDED (UG/L AS CR)	7440473
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	7440473
01033	CHROMIUM, TRI-VAL (UG/L AS CR)	16065831
01034	CHROMIUM, TOTAL (UG/L AS CR)	7440473
01040	COPPER, DISSOLVED (UG/L AS CU)	7440508

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
01041	COPPER, SUSPENDED (UG/L AS CU)	7440508
01042	COPPER, TOTAL (UG/L AS CU)	7440508
01049	LEAD, DISSOLVED (UG/L AS PB)	7439921
01050	LEAD, SUSPENDED (UG/L AS PB)	7439921
01051	LEAD, TOTAL (UG/L AS PB)	7439921
01057	THALLIUM, DISSOLVED (UG/L AS TL)	7440280
01058	THALLIUM, SUSPENDED (UG/L AS TL)	7440280
01059	THALLIUM, TOTAL (UG/L AS TL)	7440280
01065	NICKEL, DISSOLVED (UG/L AS NI)	7440020
01066	NICKEL, SUSPENDED (UG/L AS NI)	7440020
01067	NICKEL, TOTAL (UG/L AS NI)	7440020
01074	NICKEL, TOTAL RECOVERABLE IN WATER AS NI (UG/L)	7440020
01075	SILVER, DISSOLVED (UG/L AS AG)	7440224
01076	SILVER, SUSPENDED (UG/L AS AG)	7440224
01077	SILVER, TOTAL (UG/L AS AG)	7440224
01079	SILVER, TOTAL RECOVERABLE IN WATER AS AG (UG/L)	7440224
01089	COPPER AS SUSPENDED BLACK OXIDE IN WATER (MG/L)	7440508
01090	ZINC, DISSOLVED (UG/L AS ZN)	7440666
01091	ZINC, SUSPENDED (UG/L ZN)	7440666
01092	ZINC, TOTAL (UG/L AS ZN)	7440666
01094	ZINC, TOTAL RECOVERABLE IN WATER AS ZN (UG/L)	7440666
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	7440360
01096	ANTIMONY, SUSPENDED (UG/L AS SB)	7440360
01097	ANTIMONY, TOTAL (UG/L AS SB)	7440360
01113	CADMIUM, TOTAL RECOVERABLE IN WATER AS CD (UG/L)	7440439
01114	LEAD, TOTAL RECOVERABLE IN WATER AS PB (UG/L)	7439921
01118	CHROMIUM, TOTAL RECOVERABLE IN WATER AS CR (UG/L)	7440473
01119	COPPER,TOTAL RECOVERABLE IN WATER AS CU (UG/L)	7440508

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
01124	THALLIUM, ACID SOLUBLE, WATER, WHOLE (UG/L)	7440280
01128	THALLIUM,TOTAL RECOVERABLE <95%, UG/L AS TL	7440280
01138	SELENIUM, IN WATER, LBS/DAY	7782492
01145	SELENIUM, DISSOLVED (UG/L AS SE)	7782492
01146	SELENIUM, SUSPENDED (UG/L AS SE)	7782492
01147	SELENIUM, TOTAL (UG/L AS SE)	7782492
01167	SELENIUM, ACID SOLUBLE, WATER, WHOLE (UG/L)	7782492
01220	CHROMIUM, HEXAVALENT, DISSOLVED IN (UG/L AS CR)	18540299
01252	ARSENIC, LB/DAY/CFS STREAM FLOW	7440382
01253	CADMIUM, LB/DAY/CFS STREAM FLOW	7440439
01254	CHROMIUM, TOTAL (LBS/DAY/CFS STREAM FLOW)	7740473
01255	CHROMIUM, HEXAVALENT, LB/DAY/CFS STREAM FLOW	18540299
01256	COPPER, LB/DAY/CFS STREAM FLOW	7440508
01257	CYANIDE LB/DAY/CFS STREAM FLOW	57125
01259	LEAD, LB/DAY/CFS STREAM FLOW	7439921
01260	MERCURY, LB/DAY/CFS STREAM FLOW	7439976
01261	NICKEL, LB/DAY/CFS STREAM FLOW	7440020
01263	SILVER, LB/DAY/CFS STREAM FLOW	7440224
01264	ZINC LB/DAY/CFS STREAM FLOW	7440666
01268	ANTIMONY, (SB), WATER, TOTAL RECOVERABLE (UG/L)	7440360
01291	CYANIDE, FILTERABLE, TOTAL IN WATER (UG/L)	57125
01303	ZINC, POTENTIALLY DISSOLVED WATER (MG/L)	7440666
01304	SILVER, POTENTIALLY DISSOLVED WATER (MG/L)	7440224
01306	COPPER, POTENTIALLY DISSOLVED WATER (MG/L)	7440508
01307	CHROMIUM, HEXAVALENT, POTENT. DISS. WATER (MG/L)	18540299
01309	ARSENIC, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440382
01312	BERYLLIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440417
01313	CADMIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440439

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
01314	CHROMIUM, TRIVALENT, POTENT., DISS., WATER (MG/L)	16065831
01318	LEAD, POTENTIALLY, DISSOLVED, WATER (MG/L)	7439921
01321	MERCURY, POTENTIALLY, DISSOLVED, WATER (MG/L)	7439976
01322	NICKEL, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440020
01323	SELENIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7782492
01324	THALLIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440280
01523	SILVER, IONIC (UG/L)	7440224
22675	SELENIUM, DISSOLVED ORGANIC (UG/L)	7782492
22676	SELENIUM, HEXAVALENT, DISSOLVED (UG/L)	7782492
22677	SELENIUM, TETRAVALENT, DISSOLVED	7782492
22678	ARSENIC, DISSOLVED ORGANIC (UG/L)	7440382
22679	ARSENIC, PENTAVALENT, DISSOLVED (UG/L)	7440382
22680	ARSENIC, TRIVALENT, DISSOLVED (UG/L)	7440382
30197	2-CHLOROETHYLVINYL ETHER,WATER,WHL,RECOVER (UG/L)	110758
30201	CHLOROMETHANE, WATER, WHOLE, RECOVERABLE (UG/L)	74873
30202	BROMOMETHANE, WATER, WHOLE, RECOVERABLE (UG/L)	74839
32003	CARBON CHLOROFORM AND CARBON ALCOHOL EXT. (UG/L)	67663
32005	CARBON CHLOROFORM EXTRACTABLES (UG/L)	67663
32021	CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLE (UG/L)	67663
32022	CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES (UG/L)	67663
32101	BROMODICHLOROMETHANE, WHOLE WATER (UG/L)	75274
32102	CARBON TETRACHLORIDE, WHOLE WATER, (UG/L)	56235
32103	1,2-DICHLOROETHANE, WHOLE WATER (UG/L)	107062
32104	BROMOFORM, WHOLE WATER, (UG/L)	75252
32105	DIBROMOCHLOROMETHANE, WHOLE WATER, (UG/L)	124481
32106	CHLOROFORM, WHOLE WATER (UG/L)	67663
32260	CARBON TETRACHLORIDE EXTRACTABLES (MG/L)	56235
32270	CHLOROFORM EXTRACTABLES TOTAL IN MG PER LITER	67663

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	108883
34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	71432
34198	BHC-DELTA, WATER, WHOLE (LBS/DAY)	319868
34200	ACENAPHTHYLENE, TOTAL (UG/L)	208968
34201	ACENAPHTHYLENE, DISSOLVED (UG/L)	208968
34202	ACENAPHTHYLENE, SUSPENDED (UG/L)	208968
34205	ACENAPHTHENE, TOTAL (UG/L)	83329
34206	ACENAPHTHENE, DISSOLVED (UG/L)	83329
34207	ACENAPHTHENE, SUSPENDED (UG/L)	83329
34210	ACROLEIN, TOTAL (UG/L)	107028
34211	ACROLEIN, DISSOLVED (UG/L)	107028
34212	ACROLEIN, SUSPENDED (UG/L)	107028
34215	ACRYLONITRILE, TOTAL (UG/L)	107131
34216	ACRYLONITRILE, DISSOLVED (UG/L)	107131
34217	ACRYLONITRILE, SUSPENDED (UG/L)	107131
34220	ANTHRACENE, TOTAL (UG/L)	120127
34221	ANTHRACENE, DISSOLVED (UG/L)	120127
34222	ANTHRACENE, SUSPENDED (UG/L)	120127
34225	ASBESTOS (FIBROUS) TOTAL (UG/L)	1332214
34226	ASBESTOS (FIBROUS) DISSOLVED (UG/L)	1332214
34227	ASBESTOS (FIBROUS) SUSPENDED (UG/L)	1332214
34230	BENZO(B)FLUORANTHENE, WHOLE WATER (UG/L)	205992
34231	BENZO(B)FLUORANTHENE, DISSOLVED (UG/L)	205992
34232	BENZO(B)FLUORANTHENE, SUSPENDED (UG/L)	205992
34235	BENZENE, DISSOLVED (UG/L)	71432
34236	BENZENE, SUSPENDED (UG/L)	71432
34239	BENZIDINE, DISSOLVED (UG/L)	92875
34240	BENZIDINE, SUSPENDED (UG/L)	92875

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34242	BENZO(K)FLUORANTHENE, TOTAL (UG/L)	207089
34243	BENZO(K)FLUORANTHENE, DISSOLVED (UG/L)	207089
34244	BENZO(K)FLUORANTHENE, SUSPENDED (UG/L)	207089
34247	BENZO-A-PYRENE, TOTAL (UG/L)	50328
34248	BENZO-A-PYRENE, DISSOLVED (UG/L)	50328
34249	BENZO-A-PYRENE, SUSPENDED (UG/L)	50328
34253	A-BHC-ALPHA, DISSOLVED (UG/L)	319846
34254	A-BHC-ALPHA, SUSPENDED (UG/L)	319846
34255	B-BHC-BETA, DISSOLVED (UG/L)	319857
34256	B-BHC-BETA, SUSPENDED (UG/L)	319857
34259	DELTA BENZENE HEXACHLORIDE, TOTAL (UG/L)	319868
34260	DELTA BENZENE HEXACHLORIDE, DISSOLVED (UG/L)	319868
34261	DELTA BENZENE HEXACHLORIDE, SUSPENDED (UG/L)	319868
34265	R-BHC (LINDANE) GAMMA, DISSOLVED (UG/L)	58899
34266	R-BHC (LINDANE) GAMMA, SUSPENDED (UG/L)	58899
34273	BIS (2-CHLOROETHYL) ETHER, TOTAL (UG/L)	111444
34274	BIS (2-CHLOROETHYL) ETHER, DISSOLVED (UG/L)	111444
34275	BIS (2-CHLOROETHYL) ETHER, SUSPENDED (UG/L)	111444
34278	BIS (2-CHLOROETHOXY) METHANE, TOTAL (UG/L)	111911
34279	BIS (2-CHLOROETHOXY) METHANE, DISSOLVED (UG/L)	111911
34280	BIS (2-CHLOROETHOXY) METHANE, SUSPENDED (UG/L)	111911
34288	BROMOFORM, DISSOLVED (UG/L)	75252
34289	BROMOFORM, SUSPENDED (UG/L)	75252
34292	N-BUTYL BENZYL PHTHALATE, WHOLE WATER (UG/L)	85687
34293	N-BUTYL BENZYL PHTHALATE, DISSOLVED (UG/L)	85687
34294	N-BUTYL BENZYL PHTHALATE, SUSPENDED (UG/L)	85687
34297	CARBON TETRACHLORIDE, DISSOLVED (UG/L)	56235
34298	CARBON TETRACHLORIDE, SUSPENDED (UG/L)	56235

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34301	CHLOROBENZENE, TOTAL (UG/L)	108907
34302	CHLOROBENZENE, DISSOLVED (UG/L)	108907
34303	CHLOROBENZENE, SUSPENDED (UG/L)	108907
34306	CHLORODIBROMOMETHANE, TOTAL (UG/L)	124481
34307	CHLORODIBROMOMETHANE, DISSOLVED (UG/L)	124481
34308	CHLORODIBROMOMETHANE, SUSPENDED (UG/L)	124481
34311	CHLOROETHANE, TOTAL (UG/L)	75003
34312	CHLOROETHANE, DISSOLVED (UG/L)	75003
34313	CHLOROETHANE, SUSPENDED (UG/L)	75003
34316	CHLOROFORM, DISSOLVED (UG/L)	67663
34317	CHLOROFORM, SUSPENDED (UG/L)	67663
34320	CHRYSENE, TOTAL (UG/L)	218019
34321	CHRYSENE, DISSOLVED (UG/L)	218019
34322	CHRYSENE, SUSPENDED (UG/L)	218019
34325	CYANIDE, SUSPENDED (MG/L)	57125
34327	DI-N-BUTYL PHTHALATE, DISSOLVED (UG/L)	84742
34328	DICHLOROBROMOMETHANE, DISSOLVED (UG/L)	75274
34329	DICHLOROBROMOMETHANE, SUSPENDED (UG/L)	75274
34336	DIETHYL PHTHALATE, TOTAL (UG/L)	84662
34337	DIETHYL PHTHALATE, DISSOLVED (UG/L)	84662
34338	DIETHYL PHTHALATE, SUSPENDED (UG/L)	84662
34341	DIMETHYL PHTHALATE, TOTAL (UG/L)	131113
34342	DIMETHYL PHTHALATE, DISSOLVED (UG/L)	131113
34343	DIMETHYL PHTHALATE, SUSPENDED (UG/L)	131113
34346	1,2-DIPHENYLHYDRAZINE, TOTAL (UG/L)	122667
34347	1,2-DIPHENYLHYDRAZINE, DISSOLVED (UG/L)	122667
34348	1,2-DIPHENYLHYDRAZINE, SUSPENDED (UG/L)	122667
34351	ENDOSULFAN SULFATE, TOTAL (UG/L)	1031078

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34352	ENDOSULFAN SULFATE, DISSOLVED (UG/L)	1031078
34353	ENDOSULFAN SULFATE, SUSPENDED (UG/L)	1031078
34356	ENDOSULFAN, BETA, TOTAL (UG/L)	33213659
34357	ENDOSULFAN, BETA, DISSOLVED (UG/L)	33213659
34358	ENDOSULFAN, BETA, SUSPENDED (UG/L)	33213659
34361	ENDOSULFAN, ALPHA, TOTAL (UG/L)	959988
34362	ENDOSULFAN, ALPHA, DISSOLVED (UG/L)	959988
34363	ENDOSULFAN, ALPHA, SUSPENDED (UG/L)	959988
34371	ETHYLBENZENE, TOTAL (UG/L)	100414
34372	ETHYLBENZENE, DISSOLVED (UG/L)	100414
34373	ETHYLBENZENE, SUSPENDED (UG/L)	100414
34376	FLUORANTHENE, TOTAL (UG/L)	206440
34377	FLUORANTHENE, DISSOLVED (UG/L)	206440
34378	FLUORANTHENE, SUSPENDED (UG/L)	206440
34381	FLUORENE, TOTAL (UG/L)	86737
34382	FLUORENE, DISSOLVED (UG/L)	86737
34383	FLUORENE, SUSPENDED (UG/L)	86737
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL (UG/L)	77474
34387	HEXACHLOROCYCLOPENTADIENE, DISSOLVED (UG/L)	77474
34388	HEXACHLOROCYCLOPENTADIENE, SUSPENDED (UG/L)	77474
34391	HEXACHLOROBUTADIENE, TOTAL (UG/L)	87683
34392	HEXACHLOROBUTADIENE, DISSOLVED (UG/L)	87683
34393	HEXACHLOROBUTADIENE, SUSPENDED (UG/L)	87683
34396	HEXACHLOROETHANE, TOTAL (UG/L)	67721
34397	HEXACHLOROETHANE, DISSOLVED (UG/L)	67721
34398	HEXACHLOROETHANE, SUSPENDED (UG/L)	67721
34401	HEXACHLOROBENZENE, DISSOLVED (UG/L)	118741
34402	HEXACHLOROBENZENE, SUSPENDED (UG/L)	118741

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34403	INDENO (1,2,3-CD) PYRENE, TOTAL (UG/L)	193395
34404	INDENO (1,2,3-CD) PYRENE, DISSOLVED (UG/L)	193395
34405	INDENO (1,2,3-CD) PYRENE, SUSPENDED (UG/L)	193395
34408	ISOPHORONE, TOTAL (UG/L)	78591
34409	ISOPHORONE, DISSOLVED (UG/L)	78591
34410	ISOPHORONE, SUSPENDED (UG/L)	78591
34413	METHYL BROMIDE, TOTAL (UG/L)	74839
34414	METHYL BROMIDE, DISSOLVED (UG/L)	74839
34415	METHYL BROMIDE, SUSPENDED (UG/L)	74839
34418	METHYL CHLORIDE, TOTAL (UG/L)	74873
34419	METHYL CHLORIDE, DISSOLVED (UG/L)	74873
34420	METHYL CHLORIDE, SUSPENDED (UG/L)	74873
34423	METHYLENE CHLORIDE, TOTAL (UG/L)	75092
34424	METHYLENE CHLORIDE, DISSOLVED (UG/L)	75092
34425	METHYLENE CHLORIDE, SUSPENDED (UG/L)	75092
34428	N-NITROSODI-N-PROPYLAMINE, TOTAL (UG/L)	621647
34429	N-NITROSODI-N-PROPYLAMINE, DISSOLVED (UG/L)	621647
34430	N-NITROSODI-N-PROPYLAMINE, SUSPENDED (UG/L)	621647
34433	N-NITROSODIPHENYLAMINE, TOTAL (UG/L)	86306
34434	N-NITROSODIPHENYLAMINE, DISSOLVED (UG/L)	86306
34435	N-NITROSODIPHENYLAMINE, SUSPENDED (UG/L)	86306
34438	N-NITROSODIMETHYLAMINE, TOTAL (UG/L)	62759
34439	N-NITROSODIMETHYLAMINE, DISSOLVED (UG/L)	62759
34440	N-NITROSODIMETHYLAMINE, SUSPENDED (UG/L)	62759
34443	NAPHTHALENE, DISSOLVED (UG/L)	91203
34444	NAPHTHALENE, SUSPENDED (UG/L)	91203
34447	NITROBENZENE, TOTAL (UG/L)	98953
34448	NITROBENZENE, DISSOLVED (UG/L)	98953

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34449	NITROBENZENE, SUSPENDED (UG/L)	98953
34452	PARACHLOROMETA CRESOL, TOTAL (UG/L)	59507
34453	PARACHLOROMETA CRESOL, DISSOLVED (UG/L)	59507
34454	PARACHLOROMETA CRESOL, SUSPENDED (UG/L)	59507
34457	PCB - 1242, DISSOLVED (UG/L)	53469219
34458	PCB - 1242, SUSPENDED (UG/L)	53469219
34459	PCP (PENTACHLOROPHENOL), DISSOLVED (UG/L)	87865
34460	PCP (PENTACHLOROPHENOL), SUSPENDED (UG/L)	87865
34461	PHENANTHRENE, TOTAL (UG/L)	85018
34462	PHENANTHRENE, DISSOLVED (UG/L)	85018
34463	PHENANTHRENE, SUSPENDED (UG/L)	85018
34466	PHENOL, DISSOLVED (UG/L)	108952
34467	PHENOL, SUSPENDED (UG/L)	108952
34469	PYRENE, TOTAL (UG/L)	129000
34470	PYRENE, DISSOLVED (UG/L)	129000
34471	PYRENE, SUSPENDED (UG/L)	129000
34475	TETRACHLOROETHYLENE, TOTAL (UG/L)	127184
34476	TETRACHLOROETHYLENE, DISSOLVED (UG/L)	127184
34477	TETRACHLOROETHYLENE, SUSPENDED (UG/L)	127184
34481	TOLUENE, DISSOLVED (UG/L)	108883
34482	TOLUENE, SUSPENDED (UG/L)	108883
34485	TRICHLOROETHYLENE, DISSOLVED (UG/L)	79016
34486	TRICHLOROETHYLENE, SUSPENDED (UG/L)	79016
34493	VINYL CHLORIDE, DISSOLVED (UG/L)	75014
34494	VINYL CHLORIDE, SUSPENDED (UG/L)	75014
34496	1,1-DICHLOROETHANE, TOTAL (UG/L)	75343
34497	1,1-DICHLOROETHANE, DISSOLVED (UG/L)	75343
34498	1,1-DICHLOROETHANE, SUSPENDED (UG/L)	75343

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34501	1,1-DICHLOROETHYLENE, TOTAL (UG/L)	75354
34502	1,1-DICHLOROETHYLENE, DISSOLVED (UG/L)	75354
34503	1,1-DICHLOROETHYLENE, SUSPENDED (UG/L)	75354
34506	1,1,1-TRICHLOROETHANE, TOTAL (UG/L)	71556
34507	1,1,1-TRICHLOROETHANE, DISSOLVED (UG/L)	71556
34508	1,1,1-TRICHLOROETHANE, SUSPENDED (UG/L)	71556
34511	1,1,2-TRICHLOROETHANE, TOTAL (UG/L)	79005
34512	1,1,2-TRICHLOROETHANE, DISSOLVED (UG/L)	79005
34513	1,1,2-TRICHLOROETHANE, SUSPENDED (UG/L)	79005
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (UG/L)	79345
34517	1,1,2,2-TETRACHLOROETHANE, DISSOLVED (UG/L)	79345
34518	1,1,2,2-TETRACHLOROETHANE, SUSPENDED (UG/L)	79345
34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, TOTAL (UG/L)	191242
34522	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, DISS. (UG/L)	191242
34523	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, SUSP. (UG/L)	191242
34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, TOTAL (UG/L)	56553
34527	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, DISS. (UG/L)	56553
34528	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, SUSP. (UG/L)	56553
34531	1,2-DICHLOROETHANE, TOTAL (UG/L)	107062
34532	1,2-DICHLOROETHANE, DISSOLVED (UG/L)	107062
34533	1,2-DICHLOROETHANE, SUSPENDED (UG/L)	107062
34536	1,2-DICHLOROBENZENE, TOTAL (UG/L)	95501
34537	1,2-DICHLOROBENZENE, DISSOLVED (UG/L)	95501
34538	1,2-DICHLOROBENZENE, SUSPENDED (UG/L)	95501
34541	1,2-DICHLOROPROPANE, TOTAL (UG/L)	78875
34542	1,2-DICHLOROPROPANE, DISSOLVED (UG/L)	78875
34543	1,2-DICHLOROPROPANE, SUSPENDED (UG/L)	78875
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER (UG/L)	156605

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34547	TRANS-1,2-DICHLOROETHENE, DISSOLVED (UG/L)	156605
34548	TRANS-1,2-DICHLOROETHENE, SUSPENDED (UG/L)	156605
34551	1,2,4-TRICHLOROBENZENE, TOTAL (UG/L)	120821
34552	1,2,4-TRICHLOROBENZENE, DISSOLVED (UG/L)	120821
34553	1,2,4-TRICHLOROBENZENE, SUSPENDED (UG/L)	120821
34556	1,2,5,6-DIBENZANTHRACENE, TOTAL (UG/L)	53703
34557	1,2,5,6-DIBENZANTHRACENE, DISSOLVED (UG/L)	53703
34558	1,2,5,6-DIBENZANTHRACENE, SUSPENDED (UG/L)	53703
34561	1,3-DICHLOROPROPENE, TOTAL (UG/L)	542756
34562	1,3-DICHLOROPROPENE, DISSOLVED (UG/L)	542756
34563	1,3-DICHLOROPROPENE, SUSPENDED (UG/L)	542756
34566	1,3-DICHLOROBENZENE, TOTAL (UG/L)	541731
34567	1,3-DICHLOROBENZENE, DISSOLVED (UG/L)	541731
34568	1,3-DICHLOROBENZENE, SUSPENDED (UG/L)	541731
34571	1,4-DICHLOROBENZENE, TOTAL (UG/L)	106467
34572	1,4-DICHLOROBENZENE, DISSOLVED (UG/L)	106467
34573	1,4-DICHLOROBENZENE, SUSPENDED (UG/L)	106467
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (UG/L)	110758
34577	2-CHLOROETHYL VINYL ETHER, DISSOLVED (UG/L)	110758
34578	2-CHLOROETHYL VINYL ETHER, SUSPENDED (UG/L)	110758
34581	2-CHLORONAPHTHALENE, TOTAL (UG/L)	91587
34582	2-CHLORONAPHTHALENE, DISSOLVED (UG/L)	91587
34583	2-CHLORONAPHTHALENE, SUSPENDED (UG/L)	91587
34586	2-CHLOROPHENOL, TOTAL (UG/L)	95578
34587	2-CHLOROPHENOL, DISSOLVED (UG/L)	95578
34588	2-CHLOROPHENOL, SUSPENDED (UG/L)	95578
34591	2-NITROPHENOL, TOTAL (UG/L)	88755
34592	2-NITROPHENOL, DISSOLVED (UG/L)	88755

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34593	2-NITROPHENOL, SUSPENDED (UG/L)	88755
34596	DI-N-OCTYL PHTHALATE, TOTAL (UG/L)	117840
34597	DI-N-OCTYL PHTHALATE, DISSOLVED (UG/L)	117840
34598	DI-N-OCTYL PHTHALATE, SUSPENDED (UG/L)	117840
34601	2,4-DICHLOROPHENOL, TOTAL (UG/L)	120832
34602	2,4-DICHLOROPHENOL, DISSOLVED (UG/L)	120832
34603	2,4-DICHLOROPHENOL, SUSPENDED (UG/L)	120832
34606	2,4-DIMETHYLPHENOL, TOTAL (UG/L)	105679
34607	2,4-DIMETHYLPHENOL, DISSOLVED (UG/L)	105679
34608	2,4-DIMETHYLPHENOL, SUSPENDED (UG/L)	105679
34611	2,4-DINITROTOLUENE, TOTAL (UG/L)	121142
34612	2,4-DINITROTOLUENE, DISSOLVED (UG/L)	121142
34613	2,4-DINITROTOLUENE, SUSPENDED (UG/L)	121142
34616	2,4-DINITROPHENOL, TOTAL (UG/L)	51285
34617	2,4-DINITROPHENOL, DISSOLVED (UG/L)	51285
34618	2,4-DINITROPHENOL, SUSPENDED (UG/L)	51285
34621	2,4,6-TRICHLOROPHENOL, TOTAL (UG/L)	88062
34622	2,4,6-TRICHLOROPHENOL, DISSOLVED (UG/L)	88062
34623	2,4,6-TRICHLOROPHENOL, SUSPENDED (UG/L)	88062
34626	2,6-DINITROTOLUENE, TOTAL (UG/L)	606202
34627	2,6-DINITROTOLUENE, DISSOLVED (UG/L)	606202
34628	2,6-DINITROTOLUENE, SUSPENDED (UG/L)	606202
34631	3,3'-DICHLOROBENZIDINE, TOTAL (UG/L)	91941
34632	3,3'-DICHLOROBENZIDINE, DISSOLVED (UG/L)	91941
34633	3,3'-DICHLOROBENZIDINE, SUSPENDED (UG/L)	91941
34636	4-BROMOPHENYL PHENYL ETHER, TOTAL (UG/L)	101553
34637	4-BROMOPHENYL PHENYL ETHER, DISSOLVED (UG/L)	101553
34638	4-BROMOPHENYL PHENYL ETHER, SUSPENDED (UG/L)	101553

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34641	4-CHLOROPHENYL PHENYL ETHER, TOTAL (UG/L)	7005723
34642	4-CHLOROPHENYL PHENYL ETHER, DISSOLVED (UG/L)	7005723
34643	4-CHLOROPHENYL PHENYL ETHER, SUSPENDED (UG/L)	7005723
34646	4-NITROPHENOL, TOTAL (UG/L)	100027
34647	4-NITROPHENOL, DISSOLVED (UG/L)	100027
34648	4-NITROPHENOL, SUSPENDED (UG/L)	100027
34651	P,P'-DDD, DISSOLVED (UG/L)	72548
34652	P,P'-DDD, SUSPENDED (UG/L)	72548
34653	P,P'-DDE, DISSOLVED (UG/L)	72559
34654	P,P'-DDE, SUSPENDED (UG/L)	72559
34655	P,P'-DDT, DISSOLVED (UG/L)	50293
34656	P,P'-DDT, SUSPENDED (UG/L)	50293
34657	DNOC (4,6-DINITRO-ORTHO-CRESOL), TOTAL (UG/L)	534521
34658	DNOC (4,6-DINITRO-ORTHO-CRESOL), DISSOLVED (UG/L)	534521
34659	DNOC (4,6-DINITRO-ORTHO-CRESOL), SUSPENDED (UG/L)	534521
34662	PCB - 1221, DISSOLVED (UG/L)	11104282
34663	PCB - 1221, SUSPENDED (UG/L)	11104282
34665	PCB - 1232, DISSOLVED (UG/L)	11141165
34666	PCB - 1232, SUSPENDED (UG/L)	11141165
34671	PCB - 1016, TOTAL (UG/L)	12674112
34672	PCB - 1016, DISSOLVED (UG/L)	12674112
34673	PCB - 1016, SUSPENDED (UG/L)	12674112
34675	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD),TOT(UG/L)	1746016
34676	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)DISS(UG/L)	1746016
34677	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)SUSP(UG/L)	1746016
34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTAL (UG/L)	108952
34696	NAPHTHALENE, TOTAL (UG/L)	91203
34750	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)TOT(PG/L)	1746016

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34751	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)DISS(PG/L)	1746016
34752	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)SUSP(PG/L)	1746016
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE (UG/L)	87865
39039	HEXACHLOROBENZENE WATER SAMPLE,ELECTRON CPT (UG/L)	118741
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER (UG/L)	117817
39103	BIS(2-ETHYLHEXYL) PHTHALATE, DISSOLVED, (UG/L)	117817
39104	BIS(2-ETHYLHEXYL) PHTHALATE, SUSPENDED, (UG/L)	117817
39107	PHTHALATES,DIETHYLHEXYL SUS.FRAC.WTR DWT (MG/KG)	117817
39110	DI-N-BUTYL PHTHALATE, WHOLE WATER (UG/L)	84742
39114	DI-N-BUTYL PHTHALATE, SUSPENDED (UG/L)	84742
39115	PHTHALATES,DIBUTYL SUS.FRAC.WATER DWT (UG/KG)	84742
39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	92875
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE (UG/L)	75014
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE (UG/L)	79016
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	50293
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	72548
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	72559
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	309002
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	309002
39332	ALDRIN IN SUSP. FRAC. OF WAT. SAMP. (UG/L)	309002
39336	BHC-ALPHA, WATER, WHOLE (LBS/DAY)	319846
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	319846
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	319857
39340	GAMMA-BHC(LINDANE), WHOLE WATER (UG/L)	58899
39341	GAMMA-BHC(LINDANE), DISSOLVED (UG/L)	58899
39342	GAMMA-BHC(LINDANE), SUSPENDED (UG/L)	58899
39344	BHC-GAMMA, WATER, WHOLE (LBS/DAY)	58899
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATER (UG/L)	57749

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
39352	CHLORDANE(TECH MIX & METABS), DISSOLVED (UG/L)	57749
39353	CHLORDANE(TECH MIX & METABS), SUSPENDED (UG/L)	57749
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	72548
39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	72548
39362	DDD IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	72548
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	72559
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	72559
39367	DDE IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	72559
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	50293
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	50293
39372	DDT IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	50293
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	60571
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	60571
39382	DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	60571
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	72208
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	72208
39392	ENDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	72208
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	8001352
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	8001352
39402	TOXAPHENE IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	8001352
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	76448
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	76448
39412	HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	76448
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	1024573
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT. SAM. (UG/L)	1024573
39422	HEPTACHLOR EPOXIDE IN SUSP. FRAC. WAT. SAM. (UG/L)	1024573
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE (UG/L)	11104282
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE (UG/L)	11141165

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE (UG/L)	53469219
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE (UG/L)	12672296
39501	PCB - 1248 IN FILT. FRAC. OF WATER SAMPLE (UG/L)	12672296
39502	PCB - 1248 IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	12672296
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE (UG/L)	11097691
39505	PCB - 1254 IN FILT. FRAC. OF WATER SAMPLE (UG/L)	11097691
39506	PCB - 1254 IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	11097691
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE (UG/L)	11096825
39509	PCB - 1260 IN FILT. FRAC. OF WATER SAMPLE (UG/L)	11096825
39510	PCB - 1260 IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	11096825
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	118741
39702	HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE (UG/L)	87683
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	58899
39920	DNOC IN WHOLE WATER SAMPLE (UG/L)	534521
46322	LINDANE PLUS ISOMERS IN WHOLE WATER SAMPLE (UG/L)	58899
46323	DELTA-BHC IN WHOLE WATER SAMPLE (UG/L)	319868
46326	HEPTACHLOR AND METABOLITES IN WH. H2O SAMP. (UG/L)	76448
46479	CYANIDE, DISSOLVED, WATER (UG/L)	57125
46551	ARSENIC, FIELD ACIDIFIED W/HNO3, LAB FILT. (UG/L)	7440382
46559	CADMIUM, FIELD ACIDIFIED-HNO3-LAB FILTER (UG/L-CD)	7440439
46560	CHROMIUM, FIELD ACIDIFIED-HN03-LAB FILT. (UG/L-CR)	7440473
46562	COPPER, FIELD ACIDIFIED-HNO3-LAB FILTER. (UG/L-CU)	7440508
46564	LEAD, FIELD ACIDIFIED-HNO3-LAB FILTERED (UG/L-PB)	7439921
46566	SILVER, FIELD ACIDIFIED-HNO3-LAB FILTER.(UG/L-AG)	7440224
46567	ZINC, EXTRACT. FIELD ACID W/HNO3, LAB FILT. (UG/L)	7440666
70012	PARACHLOROMETA CRESOL, WATER, WHOLE (LBS/DAY)	59507
70017	HEXACHLOROCYCLOPENTADIENE, WATER, WHOLE (LBS/DAY)	77474
70021	LEAD, (TCLP), WATER, TOTAL (MG/L)	7439921

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
71890	MERCURY, DISSOLVED (UG/L AS HG)	7439976
71895	MERCURY, SUSPENDED (UG/L AS HG)	7439976
71900	MERCURY, TOTAL (UG/L AS HG)	7439976
71901	MERCURY, TOTAL RECOVERABLE IN WATER AS HG (UG/L)	7439976
71946	CADMIUM, EXTRACTABLE (UG/L AS CD)	7440439
71947	CHROMIUM, EXTRACTABLE (UG/L AS CR)	7440473
71949	LEAD, EXTRACTABLE (UG/L AS PB)	7439921
71950	ZINC, EXTRACTABLE (UG/L AS ZN)	7440666
71951	COPPER, EXTRACTABLE (UG/L AS CU)	7440508
73063	CHLOROGUAIACOL,4-, TOTAL, WATER (UG/L)	16766306
73522	PROPANE, 2,2'-OXYBIS(1-CHLORO)- TOTAL (UG/L)	108601
77163	1,3-DICHLOROPROPENE-1, WHOLE WATER (UG/L)	542756
77354	1,1-DICHLORO-2,2-DIFLUOROETHANE WHOLE WATER (UG/L)	471432
77771	3-CHLORO-4-HYDROXYBENZOPHENONE, WHOLE WATER (UG/L)	55191203
78113	ETHYL BENZENE WHOLE WATER SAMPLE (UG/L)	100414
78124	BENZENE IN WATER (VOLATILE ANALYSIS) (UG/L)	71432
78131	TOLUENE IN WHOLE WATER (VOLATILE ANALYSIS) (UG/L)	108883
78208	2,4-DINITRO-O-CRESOL IN WHOLE WATER SAMPLE (UG/L)	534521
78247	CHROMIUM, HEXAVALENT, TOTAL RECOVERABLE, WT (UG/L)	18540299
78248	CYANIDE, TOTAL RECOVERABLE, WATER, WHOLE (UG/L)	57125
80357	CHROMIUM, TRIVALENT, DISSOLVED, AS CR	16065831
81208	CYANIDE, FREE (NOT AMEN. TO CHLORINATION) (MG/L)	57125
81210	CYANIDE - STATE OF ILLINOIS (MG/L)	57125
81214	CADMIUM - STATE OF ILLINOIS (MG/L)-COLD	7440439
81215	CHROMIUM - STATE OF ILLINOIS (MG/L), COLD DIGEST	18540299
81216	CHROMIUM(TRI)-STATE OF ILLINOIS (MG/L)-COLD DIGEST	16065831
81217	CHROMIUM, TOTAL - STATE OF ILLINOIS (MG/L) COLD DIGEST	7440473
81218	COPPER, STATE OF ILLINOIS, MG/L, COLD DIGEST	7440508

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
81220	LEAD, STATE OF ILLINOIS, MG/L, COLD DIGEST	7439921
81222	NICKEL - STATE OF ILLINOIS, MG/L, COLD DIGEST	7440020
81223	SILVER, STATE OF ILLINOIS, MG/L, COLD DIGEST	7440224
81224	ZINC - STATE OF ILLINOIS, MG/L, COLD DIGEST	7440666
81642	SILVER (AG) IN WATER POUNDS PER DAY (LBS/DAY)	7440224
81750	COPPER, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7440508
81751	LEAD, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7439921
81752	NICKEL, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7440020
81753	CADMIUM, INTERSTITIAL WATER FROM SEDIMENT	7440439
81754	ZINC, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7440666
81766	HEPTACHLOR EPOXIDE IN EPILITHIC ALGAE SED. (UG/KG)	1024573
81931	MERCURY (HG) SUSPENDED FRACTION OF WATER (UG/G)	7439976
81932	CADMIUM (CD) SUSPENDED FRACTION OF WATER (UG/G)	7440439
81933	ZINC (ZN) SUSPENDED FRACTION OF WATER (UG/G)	7440666
81934	LEAD (PB) SUSPENDED FRACTION OF WATER (UG/G)	7439921
81936	LEAD (PB) DISSOLVED CATIONIC SPECIES (UG/L)	7439921
81937	CADMIUM (CD) DISSOLVED CATIONIC SPECIES (UG/L)	7440439
81938	CHROMIUM, DISSOLVED CATIONIC SPECIES (UG/L)	7440473
81939	COPPER (CU) DISSOLVED CATIONIC SPECIES (UG/L)	7440508
81940	ZINC (ZN) DISSOLVED CATIONIC SPECIES (UG/L)	7440666
81941	CHROMIUM, DISSOLVED ANIONIC SPECIES (UG/L)	7440473
81942	COPPER (CU) DISSOLVED ANIONIC SPECIES (UG/L)	7440508
81943	ZINC (ZN) DISSOLVED ANIONIC SPECIES (UG/L)	7440666
82058	CHROMIUM, TOTAL, PERCENT REMOVAL	7440473
82399	CHROMIUM, HEXAVALENT (KG/BATCH)	18540299
82512	M,P-DICHLOROBENZENE (MEASURES 1,3&1,4) TOT. (UG/L)	541731
82573	CYANIDE/CHLORINATION IN WATER (MG/L)	57125
82621	HEXACHLOROBENZENE, WATER, TOTAL RECOVER. (UG/L)	118741

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
82622	ENDRIN ALDEHYDE, WH. WATER, TOTAL RECOVER. (UG/L)	7421934
82623	ENDOSULFAN SULFATE, WATER, TOTAL RECOVER. (UG/L)	1031078
82624	ENDOSULFAN, BETA, WH. WATER, TOTAL RECOVER. (UG/L)	33213659
82626	1,2-DIPHENYLHYDRAZINE, WATER, TOTAL RECOVER. (UG/L)	122667
82627	PARACHLOROMETA CRESOL, WATER, TOTAL RECOVER. (UG/L)	59507
85006	ZINC, TOTAL - (#/DAY)	7440666
85007	CHROMIUM, TOTAL (#/DAY)	7440473
85010	NICKEL, TOTAL - (#/DAY)	7440020
85013	MERCURY, TOTAL - (#/DAY)	7439976

Appendix H

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

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