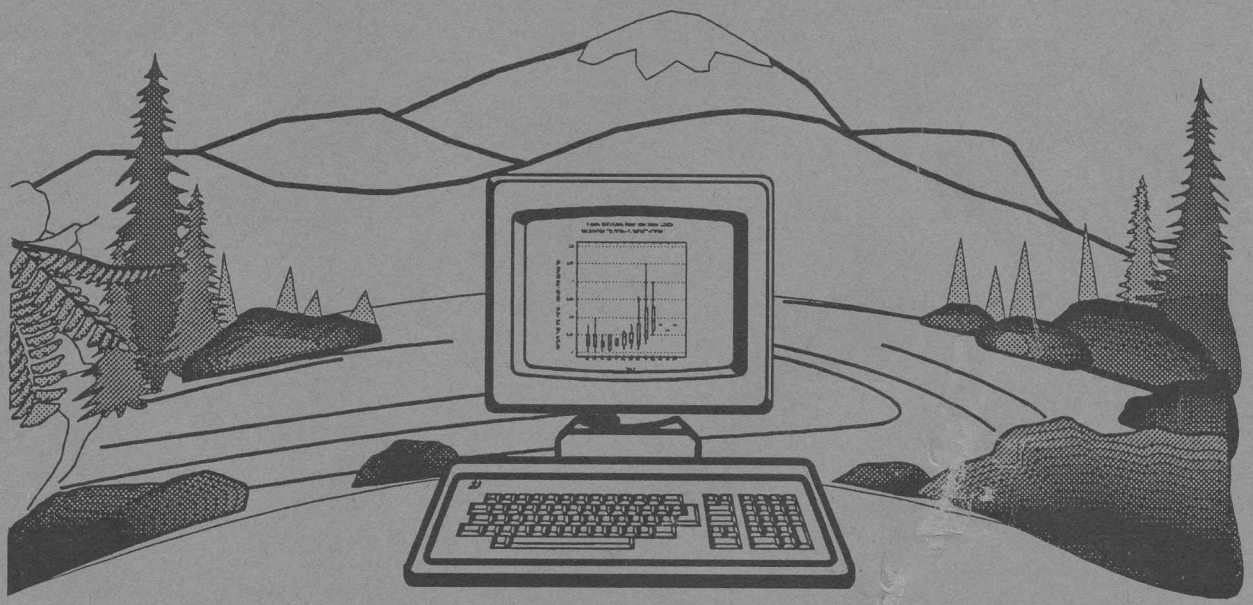
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BASELINE WATER QUALITY DATA

INVENTORY AND ANALYSIS

Isle Royale National Park



WATER RESOURCES DIVISION AND SERVICEWIDE INVENTORY AND MONITORING PROGRAM

WATER RESOURCES DIVISION

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

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BASELINE WATER QUALITY DATA

INVENTORY AND ANALYSIS

ISLE ROYALE NATIONAL PARK

National Park Service
Water Resources Division
Fort Collins, CO 80525

Technical Report NPS/NRWRD/NRTR-95/41

JANUARY 1995

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

EXECUTIVE SUMMARY

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

The results of the retrievals for the ISRO study area from the IFD, DRINKS, and GAGES databases located no industrial dischargers, no drinking water intakes, and no active or inactive gaging stations. The results of the STORET retrieval for the study area yielded 9,248 observations for 366 separate parameters collected by the Michigan Department of Natural Resources, the United States Geological Survey, and the EPA at 26 monitoring stations. Of the 26 monitoring stations, one was established but had no data; four monitored bottom deposits; and one monitored fish tissue samples. Fifteen sampling stations were established within the park boundary. Twenty-five of the study area sampling stations represent either one-time or intensive single-year sampling efforts by the collecting agencies. Only one station within the park, Washington Creek at Windigo Isle Royale (ISRO 0005), yielded a long-term record consisting of multiple observations for several important water quality parameters.

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 park. 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 ISRO water quality criteria screen found seven parameters that exceeded screening criteria at least once within the study area. The pH, cadmium, copper, and zinc all exceeded their respective EPA acute or chronic criteria for the protection of freshwater aquatic life. Cadmium and lead exceeded their respective EPA drinking water criteria. Indicator bacteria (total and fecal coliform) concentrations exceeded the WRD screening limits for primary-body contact recreation.

The pH was measured 273 times at 21 monitoring stations throughout the study area from 1965 through 1993. One observation, in Washington Creek at Windigo Isle Royale (ISRO 0005), was outside the pH range of 6.5 to 9.0 standard units (EPA chronic criteria for freshwater aquatic life). A pH of 6.3 was recorded at this monitoring station on May 12, 1965.

Total coliform concentrations were determined 69 times at one monitoring station from 1967 through 1980. Ten observations exceeded the 1000 CFU/MPN per 100 ml criterion in Washington Creek at Windigo Isle Royale (ISRO 0005). Fecal coliform concentrations were determined 106 times at six stations from 1971 through 1993. Ten

†The EPA RF3 file has not been completed for Isle Royale. Consequently, 1:100,000 scale digital hydrography from the U.S. Census TIGER files was used to provide the hydrographic backdrop for analyzing ISRO's water quality data. When the EPA completes the RF3 dataset for Isle Royale, these data will be sent to ISRO.

observations, in Washington Creek at Windigo Isle Royale (ISRO 0005), exceeded the 200 CFU per 100 ml criterion.

Cadmium concentrations (including dissolved, suspended, and total) were measured 81 times at seven monitoring stations from 1968 through 1991. One total cadmium observation of 10 μg/L, in Washington Creek at Windigo Isle Royale (ISRO 0005), exceeded both the acute freshwater criterion of 3.9 μg/L and the drinking water criterion of 5.0 μg/L on October 22, 1969.

Copper concentrations (including dissolved, suspended, and total) were measured 86 times at eight monitoring stations from 1968 through 1991. One total copper observation of 20 μg/L, in Washington Creek at Windigo Isle Royale (ISRO 0005), exceeded the acute freshwater criterion of 18 μg/L on May 10, 1968.

Lead concentrations (including dissolved, suspended, and total) were measured 87 times at 8 monitoring stations from 1968 through 1991. Of the lead observations used in the criteria analysis (see the EPA Water Quality Analysis section in the Interpretive Guide), the proposed drinking water criterion of 5 μg/L was exceeded 15 times (four dissolved and 11 total) in Washington Creek at Windigo Isle Royale (ISRO 0005).

Zinc concentrations (including dissolved, suspended, and total) were measured 86 times at eight monitoring stations from 1968 through 1991. Of the 85 observations used in the criteria analysis (see the Remark Code discussion in the Methodology), the freshwater acute criterion of 120 μg/L was exceeded on May 6, 1974 when the dissolved and total zinc concentrations measured 200 μg/L in Washington Creek at Windigo Isle Royale (ISRO 0005).

The IDEA conducted for ISRO indicates that STORET data exists for all Level I parameter groups in the park. Sufficient quantities of data were retrieved for most of the required chemical parameters; however, approximately eighty-one percent of all the ISRO data was collected between 1962 and 1993 at the Washington Creek at Windigo (ISRO 0005) station. Results for only 27 of the 127 EPA priority toxic pollutants (including inorganic parameters, general organics, pesticides, and PCB's) were retrieved from STORET.

With over 99 percent of the land area designated wilderness ISRO is thought to be one of the "purest" (least impacted by humans) national parks. ISRO is surrounded by Lake Superior, and is only accessible by water. Surface water resources in the ISRO study area consist of lakes (such as Superior, Siskiwit, Desor, Feldtmann), streams (such as Washington Creek, Big and Little Siskiwit River), tributaries, and ponds. Based on the data inventories and analyses contained in this report, surface waters within the study area appear to be of very good quality, with indications of minute impacts from human activities primarily during the summer and early fall.

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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, stream gages, 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

[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.

national EPA water quality criteria for appropriate designated uses[2] and with the Servicewide Inventory and Monitoring Program's "Level I" water quality inventory parameters have been made. Extreme caution must be exercised in interpreting the results of these comparisons. Observations that exceed water quality criteria may have occurred due to any number of natural or anthropogenic factors, as well as other reasons. For example, STORET is a "user-beware" water quality database system. While there is some rudimentary edit (bounds) checking of any data entered in STORET (See Appendix C), users are basically free to enter their own data. Beyond data entry errors, the possibility of inaccurate data entering the system due to inappropriate measurement techniques, sample mistreatment, and other reasons is a serious concern. Consequently, if observations for a particular parameter frequently exceed the EPA water quality criterion over a prolonged time period, the best approach is to examine in detail the data exceeding the criterion. Questions which should be asked regarding the data include: What water source(s) are manifesting the problem? Does the data make sense? Was it collected by a reputable organization following a sound study plan and employing accepted techniques? If the answers to these questions still cause concern, a specific cause and effect water quality investigation focusing on the parameters of concern may be warranted. Similarly, the absence of particular Servicewide Inventory and Monitoring Program "Level I" water quality parameters from the park only means that no entity or organization has collected and entered this data into the EPA's STORET database. Too frequently, data that are collected in and around NPS units never make it into the EPA's national water quality database. These data may exist in published or unpublished reports, file cabinets, or other databases. Before definitively concluding that no baseline data exist for a particular parameter, these alternative resting grounds for data should be investigated. Such a detailed exploration, however, was beyond the scope of this study.

Key Personnel

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

National Park Service, Water Resources Division:

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

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

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

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

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

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

Jacquie Nolan designed the cover and provided publications support.

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[2]The Environmental Protection Agency's Quality Criteria for Water 1986 (Gold Book) and its two updates were 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. The EPA will soon be releasing a new water quality criteria document - the Silver Book.

Horizon Systems:

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

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

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

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

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

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

Other National Park Service:

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

METHODOLOGY

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

Delineation of Park Study Area

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

Data Sources

The EPA maintains many mainframe data systems related to national water resources (U.S. Environmental Protection Agency 1992). Five 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;
- Stream Gages (GAGES) - locations of USGS and other discharge gages; 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 735,000 active and inactive sampling stations and more than 180 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 stream gages, as well as some artificial gages, may appear in GAGES, the vast majority of stream gages belong 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 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, and Alaska). 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 will be 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 five 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, stream gages, 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 six 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) Stream Gage Locations: This database includes stream gages located within the park's study area. The vast majority of gages will likely belong 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) 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 six 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.

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

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 189 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.

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.

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.

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.

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. 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. 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

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, the three parameters which were typically the most frequently measured at nearly all stations were water temperature, stage, and discharge (See Table E). Consequently, most of the graphical plots produced were of water temperature, stage, and discharge. 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
00010	Water Temperature, Degrees Centigrade
00061	Stream Flow, Instantaneous
00065	Stream Stage, Feet

Observations/Period of Record Screen

Despite never plotting water temperature, stage, and discharge, 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.

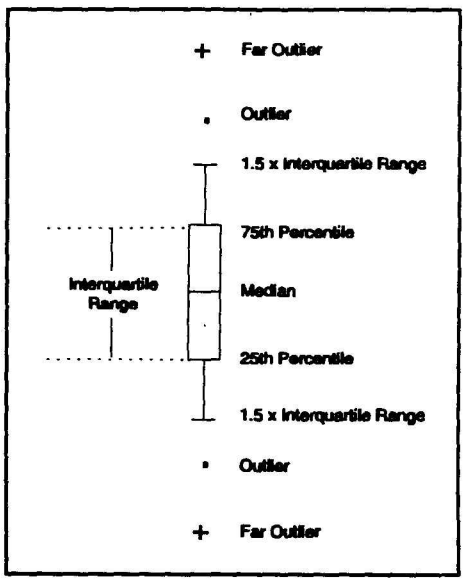
Table H. Definition of Descriptive Statistics Contained in Inventory, Annual, and Seasonal Tables

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. This includes the GIS estimated acreage of the park and the study area. 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 study area should always be greater than the park area since it includes the park as well as all lands within at least 3 miles upstream and 1 mile downstream. The number of STORET stations is the number of locations within the study area where water quality was monitored and the data entered into STORET. The date of retrieval is the calendar date when Horizon Systems downloaded all the data from STORET. The period of record is the earliest date for which water quality data exists in STORET for the park up to the date when the most recent data were entered. The number of parameters measured is the number of unique water quality parameters measured within the study area 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. The number of industrial/municipal facilities discharges, stream gages, and drinking water intakes are the number of each of these entities found within the study area. 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) 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 River Reach File Ver. 3.0 hydrography 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, & Stream Gages Map(s)

The Dischargers, Drinking Intakes, & Stream Gages 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, and active and inactive stream-gage locations. This map also serves as a visual index allowing the user to determine the identification code of each discharger, drinking intake, or stream gage. 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, & Stream Gages 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, and Stream Gages Table

This table provides some additional information about each of the discharges, drinking intakes, and stream gages displayed on the previous map(s). This information generally includes the site identification number; the station or facility name; an address, catalog unit, 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 plots 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 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).

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 Inventory section. 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. 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); and the total number of observations for each parameter at each station. This table is very useful when you need to determine at which locations within the study area 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; 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, as appropriate, 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 Gold Book (Environmental Protection Agency 1986).

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 labelling 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 labelled 1 through the number of seasons defined for the park through hydrograph separation. The actual calendar dates that correspond to these numerically labelled seasons exist in the Overview section and the Seasonal Analysis tables in the Water Quality Results chapter. The axis labelling 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, as appropriate, 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 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

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 this 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 189 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 189 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 ISRO

Study Area Boundary Description

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

GIS Estimated Acres of Park:	140800
GIS Estimated Acres of Study Area:	286528
# STORET Stations:	26
Date of STORET Retrieval:	08/23/93
Period of Record:	08/06/62-02/10/93
# Parameters Measured:	366
# Water Quality Observations	9248
# Industrial/Municipal Facilities:	0
# Flow Gages:	0
# Drinking Water Intakes	0

Hydrologic Definition of Seasons

1. January 1 - February 29
2. March 1 - April 20
3. April 21 - August 10
4. August 11 - December 31

Time Series Plot Criteria:

To be included in the time series plots, a station/parameter combination must have at least 2 years and at least 8 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 4 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:

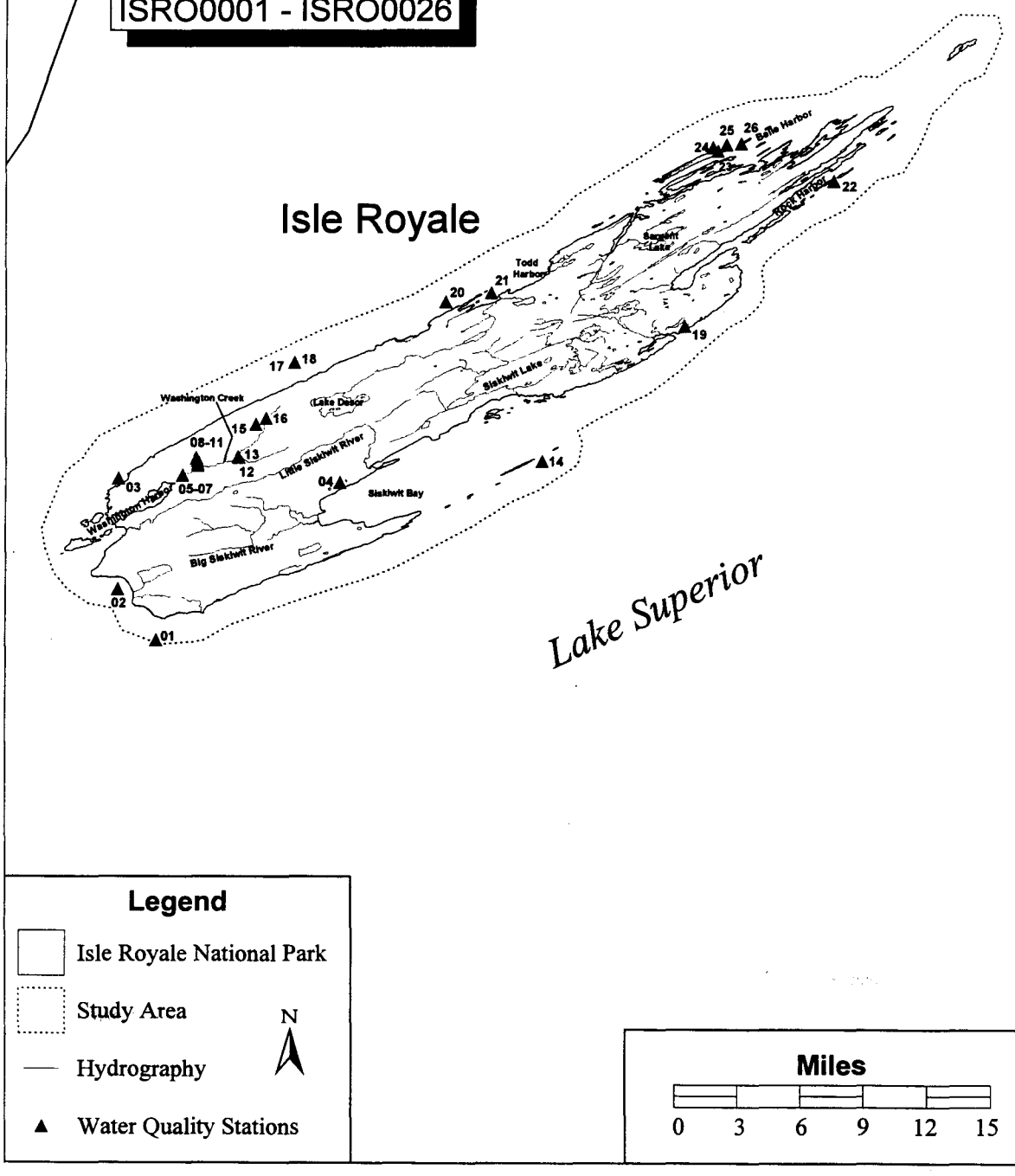
To be included in the seasonal box-and-whisker plots, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 6 years and observations in at least 3 of the 6 years.

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.


Isle Royale National Park
Regional Location Map
Isle Royale
Ontario
Thunder Bay
Minnesota
Ontario
Lake Superior
Duluth
Sault Ste. Marie
Marquette
Wisconsin
Minneapolis
St. Paul
Green Bay
Lake Huron
Michigan
Lake Michigan
Madison
Milwaukee
Grand Rapids
Lansing
Detroit
Iowa
Chicago
Lake Erie
Toledo
Illinois
Indiana
Ohio
I35
I94
I90
I43
I75
I96
I69
I65
I57
Legend
Isle Royale National Park
State Boundaries
Study Area
Interstate Highways
Major Cities
N
Miles
0
50
100
150
200

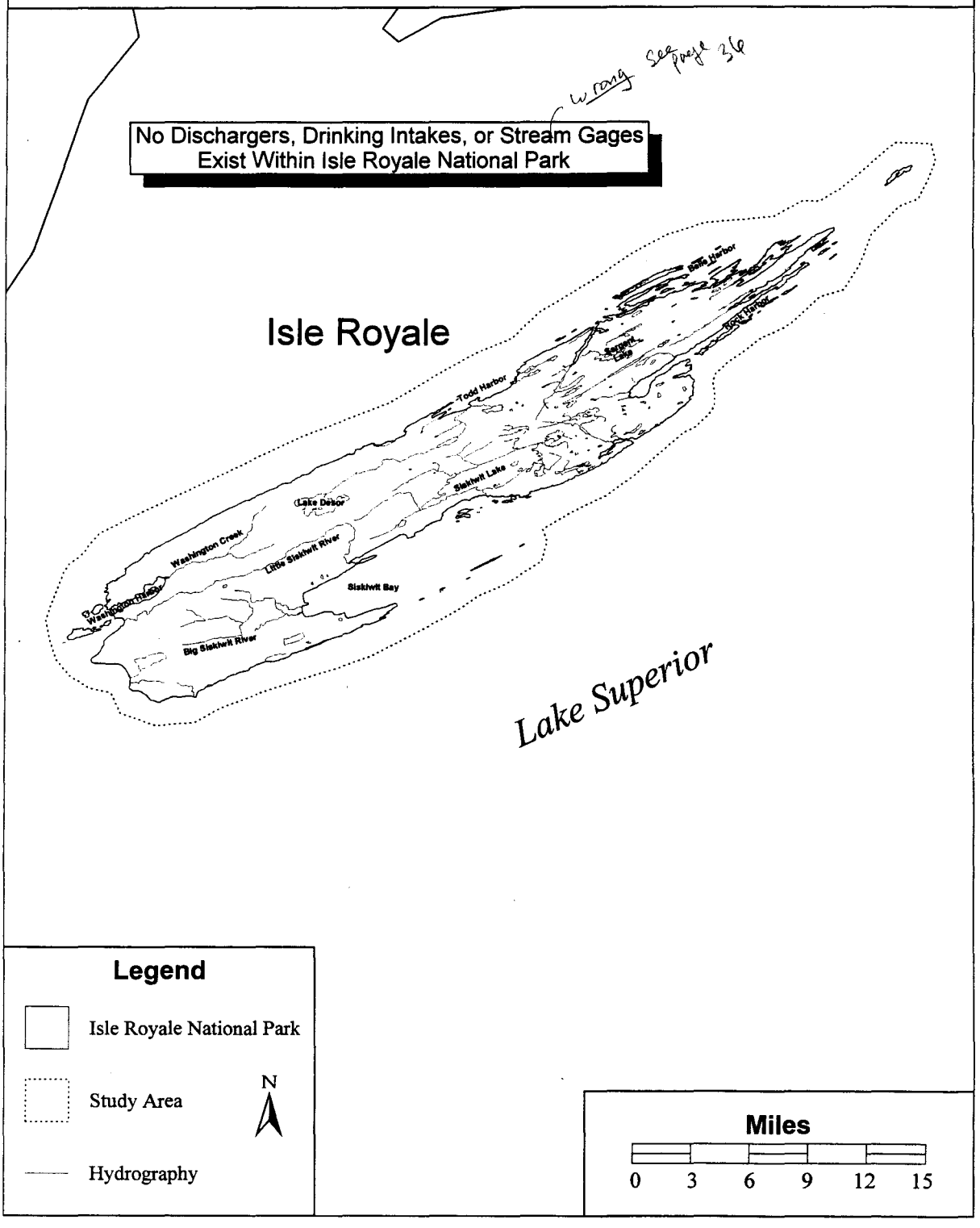
Isle Royale National Park

Water Quality Monitoring Locations



Isle Royale National Park

Dischargers, Drinking Intakes, and Stream Gages



Industrial Facilities Discharges, Drinking Water Intakes, and Stream Gages Within the ISRO Study Area

Industrial Facilities Discharges

Site ID	Station/Facility Name	Address	City	Facility Receiving Water Name

No IFD sites available for this study area.

Drinking Water Intakes

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

No drinking water intakes available for this study area.

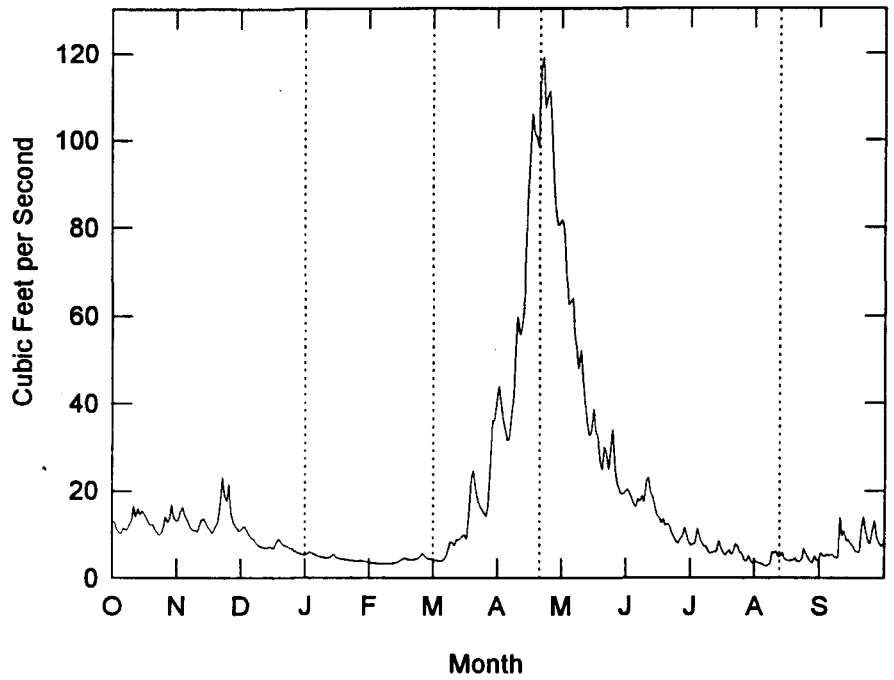
USGS Stream Gages

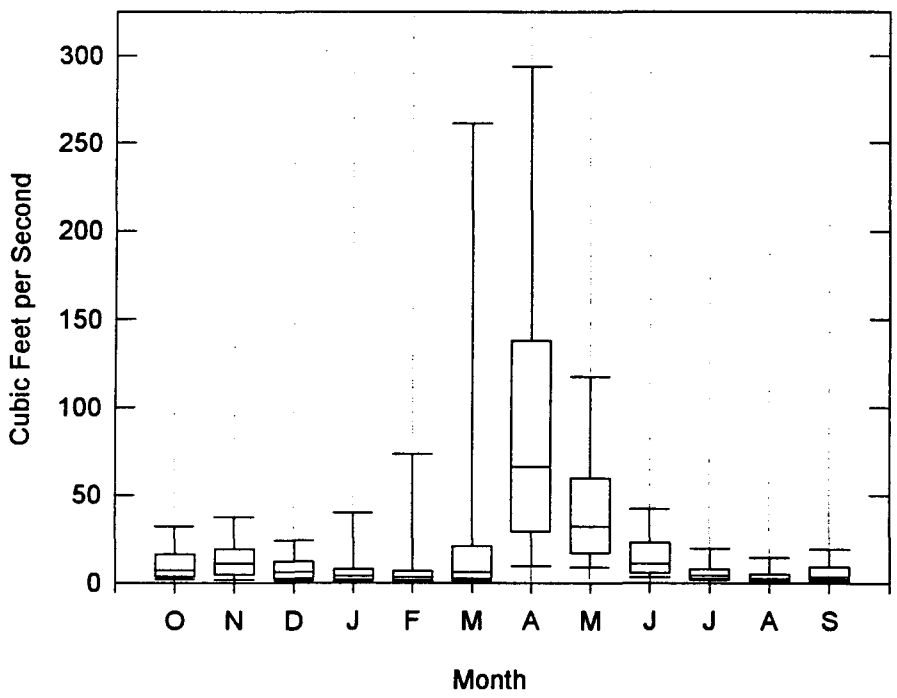
Site ID	Station Name	Catalog Unit	Drainage Area (Square Miles)	USGS Mean Annual Flow (Cubic Feet/Second)

No stream flow gages available for this study area.

REPRESENTATIVE MEAN ANNUAL HYDROGRAPH FOR SEASONAL ANALYSIS

ISLE ROYALE NATIONAL PARK
Washington Creek at Windigo, MI
04001000, 24 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 Isle Royale National Park are: Jan. 1 to Feb. 28, Mar. 1 to Apr. 20, Apr. 21 to Aug. 10, and Aug. 11 to Dec. 31.

CONTACTS FOR AGENCY CODES RETRIEVED

AGENCY	PRIMARY CONTACT NAME	ORGANIZATION	PHONE NUMBER(S)
21MICH	PUNG, DALE	MICHIGAN DEPT OF NAT RES	(517)373-2867
AIJCCCIW	RICHARDSON, BILL	EPA LARGE LAKES RES LAB	(313)226-7811
12ELS1	LANDERS, DIXON H.	EPA ENVIRONMENTAL RES LAB	(503)754-4427
112WRD	YORK, TOM	US GEOLOGICAL SURVEY	(703)648-5687
11NATDC	HOELMAN, LOUIS	USEPA HQ	(202)260-7050
11BIOACC	KRONER, STEVE	U.S. EPA MDSD	(202)260-4761

Station Period of Record Tabulation
From 08/06/62 To 02/10/93

Station Ident.	Location Description	Total Obs	01/01/85 to 02/10/93	01/01/75 to 12/31/84	Before 01/01/75
ISRO0001	LAKE SUPERIOR 30M. CONTOUR ISLE ROYALE	40	0	40	0
ISRO0002	OPEN LAKE STATION	4	4	0	0
ISRO0003	LAKE SUPERIOR 40M. CONTOUR ISLE ROYALE	40	0	40	0
ISRO0004	(NO NAME)	26	0	26	0
ISRO0005	WASHINGTON CR AT WINDIGO ISLE ROYALE MI	7489	2146	2895	2448
ISRO0006	WASHINGTON CR NR WINDIGO ISLE ROYALE	0	0	0	0
ISRO0007	WASHINGTON CREEK @ ISLE ROYALE	81	81	0	0
ISRO0008	TWICE TRIED TRIB ISLE ROYALE MI	18	18	0	0
ISRO0009	FIRST DAY TRIB ISLE ROYALE MI	18	18	0	0
ISRO0010	TRIB AT TRAIL CROSSING ISLE ROYALE MI	18	18	0	0
ISRO0011	BURN AREA TRIB ISLE ROYALE MI	18	18	0	0
ISRO0012	S FORK WASHINGTON CR ISLE ROYALE MI	18	18	0	0
ISRO0013	N FORK WASHINGTON CR ISLE ROYALE MI	18	18	0	0
ISRO0014	LAKE SUPERIOR 36.5M. CONTOUR I.ROYAL	58	0	58	0
ISRO0015	GRASSY TRIB ISLE ROYALE MI	18	18	0	0
ISRO0016	SWAMPY TRIB ISLE ROYALE MI	18	18	0	0
ISRO0017	2 MI NW OF ISLE ROYALE	77	0	77	0
ISRO0018	1 MI NORTH OF ISLE ROYALE,MICH.	336	0	0	336
ISRO0019	LAKE THERESA	26	0	26	0
ISRO0020	3 MI SOUTH OF ISLE ROYALE,MICH.	118	0	0	118
ISRO0021	LAKE SUPERIOR 36.5M. CONTOUR I. ROYALE	56	0	56	0
ISRO0022	LAKE SUPERIOR 38M. CONTOUR ISLE ROYALE	40	0	40	0
ISRO0023	L. SUPERIOR@ISLE ROYALE .05KM NE AMYGLD. IS.	206	0	0	206
ISRO0024	L. SUPERIOR@ISLE ROYALE .4KM N AMYGD. IS.	179	0	0	179
ISRO0025	L. SUPERIOR@ISLE ROYALE .4KM NE AMYGLD. IS.	248	0	40	208
ISRO0026	L. SUPERIOR@ISLE ROYALE .8KM NE AMYGLD. IS.	80	0	0	80

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From 08/06/62 To 02/10/93

Parameter Code	Name	Total Obs	01/01/85 to 02/10/93	01/01/75 to 12/31/84	Before 01/01/75
00004	STREAM WIDTH (FEET)	9	0	9	0
00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	1	0	0	1
00009	X-SEC. LOC.(FT FROM LEFT BANK LOOKING DOWNSTRM)	34	23	11	0
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	267	55	76	136
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	113	33	57	23
00025	BAROMETRIC PRESSURE (MM OF HG)	57	47	10	0
00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	90	65	25	0
00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	110	65	45	0
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	21	0	1	20
00055	VELOCITY, STREAM FT/SEC	9	0	9	0
00060	FLOW, STREAM, MEAN DAILY CFS	3	0	0	3
00061	FLOW, STREAM, INSTANTANEOUS CFS	173	39	59	75
00064	DEPTH OF STREAM, MEAN (FT)	9	0	9	0
00065	STAGE, STREAM (FEET)	159	36	57	66
00070	TURBIDITY, (JACKSON CANDLE UNITS)	49	0	3	46
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	66	31	21	14
00078	TRANSPARENCY, SECCHI DISC (METERS)	10	1	2	7
00079	COLOR, WATER (FOREL-ULE SCALE)	8	1	0	7
00080	COLOR (PLATINUM-COBALT UNITS)	51	0	2	49
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	238	52	82	104
00154	SULFATE (AS S) WHOLE WATER, MG/L	2	0	2	0
00300	OXYGEN, DISSOLVED MG/L	191	49	57	85
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	107	0	47	60
00310	BOD, 5 DAY, 20 DEG C MG/L	32	0	0	32
00335	COD, .025N K2CR207 MG/L	26	0	12	14
00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	3	0	0	3
00400	PH (STANDARD UNITS)	210	53	78	79
00403	PH, LAB, STANDARD UNITS SU	63	41	22	0
00405	CARBON DIOXIDE (MG/L AS CO2)	39	0	25	14
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	2	0	2	0
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	160	14	52	94
00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	4	4	0	0
00440	BICARBONATE ION (MG/L AS HCO3)	88	6	24	58
00445	CARBONATE ION (MG/L AS CO3)	90	6	26	58
00447	CARBONATE,INCREMENTAL TITRATION,(CO3) FIELD MG/L	7	7	0	0
00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	7	7	0	0
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	13	13	0	0
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	21	21	0	0
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	13	0	3	10
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	27	0	3	24
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	14	0	0	14
00553	OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,MG/KG	2	0	0	2
00600	NITROGEN, TOTAL (MG/L AS N)	6	0	6	0
00602	NITROGEN, DISSOLVED (MG/L AS N)	10	9	1	0
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	12	5	7	0
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	4	0	4	0
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	91	42	22	27
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	67	27	19	21
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	3	0	0	3
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	39	39	0	0
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	42	9	12	21
00616	NITRITE NITROGEN, BOTTOM DEPOS. (MG/KG-N DRY WGT)	3	0	0	3
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	52	0	0	52
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	34	0	12	22
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	6	1	5	0
00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	5	0	5	0
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	84	33	30	21
00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	3	0	0	3
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	60	9	46	5
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	101	42	29	30
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	1	0	1	0
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	8	0	8	0
00662	PHOSPHORUS (P), WATER, TOTAL RECOVERABLE UG/L	2	0	2	0
00665	PHOSPHORUS, TOTAL (MG/L AS P)	191	33	68	90
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	71	33	22	16
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	3	0	0	3
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	89	40	19	30
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10	0	7	3
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	5	0	5	0
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	6	0	6	0
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	2	0	2	0

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Parameter Code	Name	Total Obs	01/01/85 to 02/10/93	01/01/75 to 12/31/84	Before 01/01/75
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	18	0	17	1
00900	HARDNESS, TOTAL (MG/L AS CACO3)	136	5	60	71
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	97	4	36	57
00910	CALCIUM (MG/L AS CACO3)	2	0	2	0
00915	CALCIUM, DISSOLVED (MG/L AS CA)	147	41	58	48
00916	CALCIUM, TOTAL (MG/L AS CA)	14	0	0	14
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	149	41	60	48
00927	MAGNESIUM, TOTAL (MG/L AS MG)	14	0	0	14
00929	SODIUM, TOTAL (MG/L AS NA)	14	0	0	14
00930	SODIUM, DISSOLVED (MG/L AS NA)	149	41	60	48
00931	SODIUM ADSORPTION RATIO	99	4	48	47
00932	SODIUM, PERCENT	100	5	48	47
00933	SODIUM,PLUS POTASSIUM (MG/L)	3	0	3	0
00935	POTASSIUM, DISSOLVED (MG/L AS K)	149	41	60	48
00937	POTASSIUM, TOTAL MG/L AS K)	14	0	0	14
00940	CHLORIDE,TOTAL IN WATER MG/L	197	41	70	86
00941	CHLORIDE, DISSOLVED IN WATER MG/L	2	0	2	0
00945	SULFATE, TOTAL (MG/L AS SO4)	151	40	54	57
00946	SULFATE, DISSOLVED (MG/L AS SO4)	29	0	15	14
00950	FLUORIDE, DISSOLVED (MG/L AS F)	151	41	57	53
00955	SILICA, DISSOLVED (MG/L AS SI02)	180	41	60	79
00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	26	0	12	14
01000	ARSENIC, DISSOLVED (UG/L AS AS)	39	24	13	2
01001	ARSENIC, SUSPENDED (UG/L AS AS)	5	0	5	0
01002	ARSENIC, TOTAL (UG/L AS AS)	40	0	19	21
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	3	0	0	3
01005	BARIUM, DISSOLVED (UG/L AS BA)	41	30	11	0
01006	BARIUM, SUSPENDED (UG/L AS BA)	2	0	2	0
01007	BARIUM, TOTAL (UG/L AS BA)	19	0	17	2
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	35	24	11	0
01025	CADMIUM, DISSOLVED (UG/L AS CD)	39	24	11	4
01026	CADMIUM, SUSPENDED (UG/L AS CD)	1	0	1	0
01027	CADMIUM, TOTAL (UG/L AS CD)	41	0	18	23
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	3	0	0	3
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	3	0	0	3
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	39	24	12	3
01031	CHROMIUM, SUSPEND (UG/L AS CR)	5	0	5	0
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	1	0	0	1
01034	CHROMIUM, TOTAL (UG/L AS CR)	42	0	19	23
01035	COBALT, DISSOLVED (UG/L AS CO)	43	30	11	2
01037	COBALT, TOTAL (UG/L AS CO)	7	0	0	7
01040	COPPER, DISSOLVED (UG/L AS CU)	43	24	16	3
01041	COPPER, SUSPENDED (UG/L AS CU)	1	0	1	0
01042	COPPER, TOTAL (UG/L AS CU)	42	0	19	23
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	3	0	0	3
01044	IRON, SUSPENDED (UG/L AS FE)	5	0	5	0
01045	IRON, TOTAL (UG/L AS FE)	43	0	19	24
01046	IRON, DISSOLVED (UG/L AS FE)	66	39	16	11
01049	LEAD, DISSOLVED (UG/L AS PB)	44	24	16	4
01050	LEAD, SUSPENDED (UG/L AS PB)	2	0	2	0
01051	LEAD, TOTAL (UG/L AS PB)	41	0	18	23
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	3	0	0	3
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	3	0	0	3
01054	MANGANESE, SUSPENDED (UG/L AS MN)	5	0	5	0
01055	MANGANESE, TOTAL (UG/L AS MN)	42	0	19	23
01056	MANGANESE, DISSOLVED (UG/L AS MN)	65	39	14	12
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	41	30	11	0
01065	NICKEL, DISSOLVED (UG/L AS NI)	43	30	10	3
01067	NICKEL, TOTAL (UG/L AS NI)	23	0	2	21
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	3	0	0	3
01075	SILVER, DISSOLVED (UG/L AS AG)	41	30	11	0
01076	SILVER, SUSPENDED (UG/L AS AG)	4	0	4	0
01077	SILVER, TOTAL (UG/L AS AG)	19	0	17	2
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	41	30	11	0
01085	VANADIUM, DISSOLVED (UG/L AS V)	41	30	11	0
01090	ZINC, DISSOLVED (UG/L AS ZN)	43	24	15	4
01091	ZINC, SUSPENDED (UG/L ZN)	2	0	2	0
01092	ZINC, TOTAL (UG/L AS ZN)	41	0	19	22
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	3	0	0	3
01105	ALUMINUM, TOTAL (UG/L AS AL)	2	0	2	0
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	35	30	5	0

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Parameter Code	Name	Total Obs	01/01/85 to 02/10/93	01/01/75 to 12/31/84	Before 01/01/75
01130	LITHIUM, DISSOLVED (UG/L AS LI)	41	30	11	0
01145	SELENIUM, DISSOLVED (UG/L AS SE)	41	30	11	0
01146	SELENIUM, SUSPENDED (UG/L AS SE)	4	0	4	0
01147	SELENIUM, TOTAL (UG/L AS SE)	33	0	17	16
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	3	0	0	3
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	3	0	0	3
01300	OIL-GREASE (SEVERITY)	1	0	0	1
01305	DETERGENT SUDS (SEVERITY)	1	0	0	1
01325	ALGAE, FLOATING MATS (SEVERITY)	1	0	0	1
01330	ODOR, ATMOSPHERIC (SEVERITY)	1	0	0	1
01350	TURBIDITY (SEVERITY)	21	0	13	8
01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	14	0	13	1
01515	ALPHA, DISSOLVED GROSS, AS URANIUM-NATURAL, PC/L	10	0	3	7
01516	ALPHA, SUSPEND GROSS, AS URANIUM NATURAL, PC/L	9	0	2	7
03501	BETA, TOTAL	2	0	0	2
03502	BETA, TOTAL, COUNTING ERROR	2	0	0	2
03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	35	15	10	10
03516	BETA, SUSPENDED GROSS, AS CS-137, PC/L	35	15	10	10
04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	1	1	0	0
04127	ALPHA, SUSPENDED, DRY WEIGHT,SED (AS TH-230) PCI/L	1	1	0	0
09510	RADIUM 226, DISSOLVED, PLANCHET COUNT	1	0	0	1
09511	RADIUM 226, DISSOLVED, RADON METHOD	34	15	10	9
22703	URANIUM, NATURAL, DISSOLVED	12	11	0	1
27701	ZIRCONIUM 95, TOTAL	2	0	0	2
27801	NIOBIUM 95, TOTAL	2	0	0	2
28401	CESIUM 137, TOTAL	2	0	0	2
29301	ZINC 65, TOTAL	2	0	0	2
29501	MANGANESE 54, TOTAL	2	0	0	2
29601	COBALT 60, TOTAL	2	0	0	2
30344	PENTACHLORODIBENZO-P-DIOXIN,12378,FISH,WET WT,PG/G	2	2	0	0
30345	HEXACHLORODIBENZO-P-DIOXIN,123478,FISH,WET WT,PG/G	2	2	0	0
30346	HEXACHLORODIBENZO-P-DIOXIN,123678,FISH,WET WT,PG/G	2	2	0	0
30347	HEXACHLORODIBENZO-P-DIOXIN,123789,FISH,WET WT,PG/G	2	2	0	0
30348	HEPTACHLORODIBENZO-P-DIOXIN,1234678,TIS,WETWT,PG/G	2	2	0	0
30349	TETRACHLORODIBENZOFURAN, 2378- , FISH,WET WT.,PG/G	2	2	0	0
30350	PENTACHLORODIBENZOFURAN,12378- , FISH,WET WT.,PG/G	2	2	0	0
30351	PENTACHLORODIBENZOFURAN,23478- , FISH,WET WT.,PG/G	2	2	0	0
30352	HEXACHLORODIBENZOFURAN,123478- , FISH,WET WT.,PG/G	2	2	0	0
30353	HEXACHLORODIBENZOFURAN,123678- , FISH,WET WT.,PG/G	2	2	0	0
30354	HEXACHLORODIBENZOFURAN,123789- , FISH,WET WT.,PG/G	2	2	0	0
30355	HEXACHLORODIBENZOFURAN,234678- , FISH,WET WT.,PG/G	2	2	0	0
30356	HEPTACHLORODIBENZOFURAN,1234678- ,FISH,WET WT,PG/G	2	2	0	0
30357	HEPTACHLORODIBENZOFURAN,1234789- ,FISH,WET WT,PG/G	2	2	0	0
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	42	0	30	12
31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	6	0	0	6
31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	14	0	0	14
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	1	0	0	1
31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	26	0	0	26
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	35	0	11	24
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	71	31	40	0
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	70	31	38	1
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	29	0	11	18
31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	9	0	0	9
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	20	0	6	14
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	4	0	0	4
34395	HEXACHLOROBUTADIENE WET WGTTISMG/KG	1	1	0	0
34555	1,2,4-TRICHLOROBENZENE WET WGTTISMG/KG	1	1	0	0
34685	ENDRIN WET WGTTISMG/KG	1	1	0	0
34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	1	1	0	0
34687	HEPTACHLOR WET WGTTISMG/KG	1	1	0	0
34688	HEXACHLOROBENZENE WET WGTTISMG/KG	1	1	0	0
34754	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN TISWETWTPG/G	2	2	0	0
38824	ISOPROPALIN TISWETWGTMG/KG	1	1	0	0
39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	4	0	4	0
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	1	1	0	0
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	1	1	0	0
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	1	1	0	0
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	21	21	0	0
39102	BIS(2-ETHYLHEXYL) PHTHALATE,SEDIMENT,DRY WGT,UG/KG	2	0	0	2
39112	DI-N-BUTYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	2	0	0	2
39250	NAPTHALENES, POLYCHLORINATED (UG/L)	6	0	6	0

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Parameter Code	Name	Total Obs	01/01/85 to 02/10/93	01/01/75 to 12/31/84	Before 01/01/75
39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	2	0	2	0
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	6	0	6	0
39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	0	2
39305	O,P' DDT IN WHOLE WATER SAMPLE (UG/L)	6	0	6	0
39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	0	2
39319	MONOCHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	1	1	0	0
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	1	1	0	0
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	16	0	7	9
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	12	0	7	5
39335	DICHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	1	1	0	0
39339	TRICHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	1	1	0	0
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	16	0	7	9
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	12	0	7	5
39345	TETRACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	1	1	0	0
39347	PENTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	1	1	0	0
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	17	0	13	4
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	10	0	7	3
39354	HEPTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	1	1	0	0
39355	OCTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	1	1	0	0
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	22	0	13	9
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	14	0	7	7
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	22	0	13	9
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	14	0	7	7
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	16	0	7	9
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	12	0	7	5
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	22	0	13	9
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	14	0	7	7
39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	5	0	5	0
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	2	0
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	16	0	7	9
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	12	0	7	5
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	5	0	5	0
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	8	0	7	1
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	7	0	7	0
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	1	1	0	0
39408	NONACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	1	1	0	0
39409	DECACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	1	1	0	0
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	16	0	7	9
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	12	0	7	5
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	11	0	7	4
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	10	0	7	3
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	3	0	3	0
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	3	0	3	0
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	6	0	6	0
39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	2	0	0	2
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	6	0	6	0
39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	2	0	0	2
39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	2	0	0	2
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	10	0	7	3
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	9	0	7	2
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	9	0	5	4
39531	MALATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	3	0	0	3
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	9	0	5	4
39541	PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	3	0	0	3
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	9	0	5	4
39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	2	0	0	2
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	9	0	5	4
39601	METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	3	0	0	3
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	14	0	6	8
39731	2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	2	0
39733	2,4-D IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	8	0	0	8
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	14	0	6	8
39741	2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	2	0
39755	MIREX, TOTAL (UG/L)	5	0	5	0
39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	2	0	2	0
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	14	0	6	8
39761	SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	2	0
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	6	0	6	0
39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	1	1	0	0
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	5	0	5	0
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	5	0	5	0

Parameter Period of Record Tabulation
From 08/06/62 To 02/10/93

Parameter Code	Name	Total Obs	01/01/85 to 02/10/93	01/01/75 to 12/31/84	Before 01/01/75
46333	PENTACHLORONITROBENZENE (PCNB) IN TISSUE WET MG/KG	1	1	0	0
70151	SURFACE AREA OF LAKE OR RESERVOIR SQ KM	2	0	2	0
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	145	32	55	58
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	112	4	46	62
70302	SOLIDS, DISSOLVED-TONS PER DAY	105	0	48	57
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	106	0	48	58
70310	PH, STANDARD UNITS, BOTTOM MUDS	3	0	0	3
70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	3	0	0	3
70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	3	0	0	3
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	47	30	17	0
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	42	9	12	21
70977	INSTRUMENT RATIO, LAB/FIELD CONCENTRATIONS, NUMBER	2	2	0	0
71835	OXYGEN CONSUMED, FILTERED MG/L	2	0	0	2
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	1	0	1	0
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	18	6	12	0
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	54	0	2	52
71883	MANGANESE, TOTAL ELEMENTAL (UG/L AS MN)	16	0	0	16
71885	IRON (UG/L AS FE)	17	0	2	15
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	72	5	24	43
71887	NITROGEN, TOTAL, AS NO3 - MG/L	6	0	6	0
71890	MERCURY, DISSOLVED (UG/L AS HG)	41	24	11	6
71895	MERCURY, SUSPENDED (UG/L AS HG)	3	0	3	0
71900	MERCURY, TOTAL (UG/L AS HG)	37	0	19	18
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	3	0	0	3
71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	2	2	0	0
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	2	0	2	0
75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	8	8	0	0
75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	8	8	0	0
75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	8	8	0	0
75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	8	8	0	0
75990	URANIUM,NATURAL,1 SIGMA PRC EST,DISS,WATER UG/L	6	6	0	0
76001	RADIUM 226,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	6	6	0	0
76004	ALPHA GROSS,SUSP,1 SIGMA PRC EST AS TH230,WTR PC/L	8	8	0	0
76005	BETA GROSS,SUSP,1 SIGMA PRC EST AS SR90/Y90 PC/L	8	8	0	0
76530	BIPHENYL TISSUE ,WET WGT,MG/KG	1	1	0	0
78907	HEXACHLOROBIPHENYLS IN FISH TISSUE WET WGT. MG/KG	1	1	0	0
78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	1	1	0	0
78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	1	1	0	0
79026	1,2,3,4,-TETRACHLOROBENZENE IN FISH WET WGT MG/KG	1	1	0	0
80020	URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD	24	4	10	10
80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	35	15	10	10
80040	ALPHA,SUSPENDED GROSS, AS URANIUM-NATURAL, UG/L	35	15	10	10
80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	35	15	10	10
80060	BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L	35	15	10	10
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	102	31	32	39
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	62	0	23	39
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	8	0	0	8
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	8	0	0	8
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	8	0	0	8
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	8	0	0	8
80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	8	0	0	8
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	8	0	0	8
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	8	0	0	8
80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	8	0	0	8
80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	8	0	0	8
80173	BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM	7	0	0	7
80174	BED MATERIAL SIEVE DIAMETER,% FINER THAN 64.0MM	3	0	0	3
81024	DRAINAGE AREA IN SQUARE MILES (SQ. MI.)	2	0	2	0
81312	POLYCHLORINATEDBIPHENYLS FISH TISSUE WET WGT MG/KG	1	1	0	0
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	1	1	0	0
81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	1	1	0	0
81652	TREFLAN IN FISH TISSUE WET WEIGHT MG/KG	1	1	0	0
81807	DURSBAN IN FISH TISSUE WET WEIGHT MG/KG	1	1	0	0
81823	PENTACHLOROANISOLE(PCA)INFISH TISSUE WET WGT MG/KG	1	1	0	0
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	2	0	2	0
82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	1	1	0	0
82047	DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	2	0	2	0
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	4	0	4	0
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	2	0	2	0
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	2	0	2	0
82398	SAMPLING METHOD (CODES)	6	6	0	0

Parameter Period of Record Tabulation
From 08/06/62 To 02/10/93

Parameter Code	Name		Total Obs	01/01/85 to 02/10/93	01/01/75 to 12/31/84	Before 01/01/75
84007	ANATOMY ALPHA CODE		2	2	0	0
85675	TRICHLOROBENZENE,1,3,5-	TISSUE,WET,WT,MG/KG	1	1	0	0
85676	TRICHLOROBENZENE,1,2,3-	TISSUE,WET,WT,MG/KG	1	1	0	0
85677	TETRACHLOROBENZENE,1,2,4,5-	TISSUE,WET,WT,MG/KG	1	1	0	0
85678	TETRACHLOROBENZENE,1,2,3,5-	TISSUE,WET,WT,MG/KG	1	1	0	0
85679	PENTACHLOROBENZENE	TISSUE,WET,WT,MG/KG	1	1	0	0
85680	DIPHENYL DISULFIDE	TISSUE,WET,WT,MG/KG	1	1	0	0
85681	OCTACHLOROSTYRENE	TISSUE,WET,WT,MG/KG	1	1	0	0
85682	NITROFEN	TISSUE,WET,WT,MG/KG	1	1	0	0
85683	PERTHANE	TISSUE,WET,WT,MG/KG	1	1	0	0
85684	PERTHANE	TISSUE,WET,WT,MG/KG	1	1	0	0

Station/Parameter Period of Record Tabulation
From 08/06/62 To 02/10/93

Station	Code	Name		Start - End	Years	Obs
ISR00005	00004	STREAM WIDTH (FEET)		05/05/75-09/21/76	1	9
ISR00002	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		05/18/87-05/18/87	0	2
ISR00004	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/20/84-10/20/84	0	1
ISR00005	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/11/65-02/10/93	27	197
ISR00017	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		06/15/76-06/15/76	0	4
ISR00018	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		05/19/73-11/25/73	0	33
ISR00019	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/20/84-10/20/84	0	1
ISR00020	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		08/24/68-11/03/70	2	29
ISR00017	00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH		06/15/76-06/15/76	0	1
ISR00018	00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH		05/19/73-11/25/73	0	20
ISR00005	00055	VELOCITY, STREAM	FT/SEC	05/05/75-09/21/76	1	9
ISR00005	00060	FLOW, STREAM, MEAN DAILY	CFS	10/17/67-02/01/72	4	3
ISR00005	00061	FLOW, STREAM, INSTANTANEOUS	CFS	08/06/62-02/10/93	30	173
ISR00005	00064	DEPTH OF STREAM, MEAN (FT)		05/05/75-09/21/76	1	9
ISR00005	00065	STAGE, STREAM (FEET)		05/12/65-02/10/93	27	159
ISR00017	00070	TURBIDITY, (JACKSON CANDLE UNITS)		06/15/76-06/15/76	0	3
ISR00018	00070	TURBIDITY, (JACKSON CANDLE UNITS)		05/19/73-11/25/73	0	26
ISR00020	00070	TURBIDITY, (JACKSON CANDLE UNITS)		08/24/68-11/03/70	2	20
ISR00001	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		06/25/75-06/25/75	0	2
ISR00003	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		06/25/75-06/25/75	0	2
ISR00005	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		10/21/82-02/10/93	10	40
ISR00014	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		06/26/75-06/26/75	0	2
ISR00021	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		06/26/75-06/26/75	0	2
ISR00022	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		06/26/75-06/26/75	0	2
ISR00023	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		06/26/74-08/26/74	0	4
ISR00024	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		06/26/74-08/26/74	0	4
ISR00025	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		06/26/74-06/26/75	1	6
ISR00026	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		06/26/74-06/26/74	0	2
ISR00002	00078	TRANSPARENCY, SECCHI DISC (METERS)		05/18/87-05/18/87	0	1
ISR00004	00078	TRANSPARENCY, SECCHI DISC (METERS)		10/20/84-10/20/84	0	1
ISR00018	00078	TRANSPARENCY, SECCHI DISC (METERS)		05/19/73-11/25/73	0	4
ISR00019	00078	TRANSPARENCY, SECCHI DISC (METERS)		10/20/84-10/20/84	0	1
ISR00020	00078	TRANSPARENCY, SECCHI DISC (METERS)		08/24/68-11/03/70	2	3
ISR00002	00079	COLOR, WATER (FOREL-ULE SCALE)		05/18/87-05/18/87	0	1
ISR00018	00079	COLOR, WATER (FOREL-ULE SCALE)		05/19/73-11/25/73	0	4
ISR00020	00079	COLOR, WATER (FOREL-ULE SCALE)		08/24/68-11/03/70	2	3
ISR00004	00080	COLOR (PLATINUM-COBALT UNITS)		10/20/84-10/20/84	0	1
ISR00005	00080	COLOR (PLATINUM-COBALT UNITS)		05/12/65-10/07/73	8	49
ISR00019	00080	COLOR (PLATINUM-COBALT UNITS)		10/20/84-10/20/84	0	1
ISR00001	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		06/25/75-06/25/75	0	2
ISR00003	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		06/25/75-06/25/75	0	2
ISR00004	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/20/84-10/20/84	0	1
ISR00005	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		02/11/65-02/10/93	27	182
ISR00014	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		06/26/75-06/26/75	0	2
ISR00017	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		06/15/76-06/15/76	0	3
ISR00019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/20/84-10/20/84	0	1
ISR00020	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		08/24/68-11/03/70	2	25
ISR00021	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		06/26/75-06/26/75	0	2
ISR00022	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		06/26/75-06/26/75	0	2
ISR00023	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		06/26/74-08/26/74	0	4
ISR00024	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		06/26/74-08/26/74	0	4
ISR00025	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		06/26/74-06/26/75	1	6
ISR00026	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		06/26/74-06/26/74	0	2
ISR00004	00154	SULFATE (AS S) WHOLE WATER, MG/L		10/20/84-10/20/84	0	1
ISR00019	00154	SULFATE (AS S) WHOLE WATER, MG/L		10/20/84-10/20/84	0	1
ISR00005	00300	OXYGEN, DISSOLVED	MG/L	09/27/67-02/10/93	25	136
ISR00017	00300	OXYGEN, DISSOLVED	MG/L	06/15/76-06/15/76	0	3
ISR00018	00300	OXYGEN, DISSOLVED	MG/L	05/19/73-11/25/73	0	27
ISR00020	00300	OXYGEN, DISSOLVED	MG/L	08/24/68-11/03/70	2	25
ISR00005	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	09/27/67-02/16/83	15	77
ISR00017	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	06/15/76-06/15/76	0	3
ISR00018	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	05/19/73-11/25/73	0	27
ISR00005	00310	BOD, 5 DAY, 20 DEG C	MG/L	09/06/67-06/06/73	5	32
ISR00001	00335	COD, .025N K2CR207	MG/L	06/25/75-06/25/75	0	2
ISR00003	00335	COD, .025N K2CR207	MG/L	06/25/75-06/25/75	0	2
ISR00014	00335	COD, .025N K2CR207	MG/L	06/26/75-06/26/75	0	2
ISR00021	00335	COD, .025N K2CR207	MG/L	06/26/75-06/26/75	0	2
ISR00022	00335	COD, .025N K2CR207	MG/L	06/26/75-06/26/75	0	2
ISR00023	00335	COD, .025N K2CR207	MG/L	06/26/74-08/26/74	0	4
ISR00024	00335	COD, .025N K2CR207	MG/L	06/26/74-08/26/74	0	4
ISR00025	00335	COD, .025N K2CR207	MG/L	06/26/74-06/26/75	1	6
ISR00026	00335	COD, .025N K2CR207	MG/L	06/26/74-06/26/74	0	2

Station/Parameter Period of Record Tabulation
From 08/06/62 To 02/10/93

Station	Code	Name		Start - End	Years	Obs
ISRO0023	00339	COD, BOTTOM DEPOSITS, DRY WEIGHT	MG/KG	08/26/74-08/26/74	0	1
ISRO0024	00339	COD, BOTTOM DEPOSITS, DRY WEIGHT	MG/KG	08/26/74-08/26/74	0	1
ISRO0025	00339	COD, BOTTOM DEPOSITS, DRY WEIGHT	MG/KG	08/26/74-08/26/74	0	1
ISRO0001	00400	PH (STANDARD UNITS)		06/25/75-06/25/75	0	2
ISRO0003	00400	PH (STANDARD UNITS)		06/25/75-06/25/75	0	2
ISRO0005	00400	PH (STANDARD UNITS)		02/11/65-02/10/93	27	181
ISRO0014	00400	PH (STANDARD UNITS)		06/26/75-06/26/75	0	2
ISRO0017	00400	PH (STANDARD UNITS)		06/15/76-06/15/76	0	3
ISRO0021	00400	PH (STANDARD UNITS)		06/26/75-06/26/75	0	2
ISRO0022	00400	PH (STANDARD UNITS)		06/26/75-06/26/75	0	2
ISRO0023	00400	PH (STANDARD UNITS)		06/26/74-08/26/74	0	4
ISRO0024	00400	PH (STANDARD UNITS)		06/26/74-08/26/74	0	4
ISRO0025	00400	PH (STANDARD UNITS)		06/26/74-06/26/75	1	6
ISRO0026	00400	PH (STANDARD UNITS)		06/26/74-06/26/74	0	2
ISRO0004	00403	PH, LAB, STANDARD UNITS	SU	10/20/84-10/20/84	0	1
ISRO0005	00403	PH, LAB, STANDARD UNITS	SU	10/22/80-02/10/93	12	53
ISRO0008	00403	PH, LAB, STANDARD UNITS	SU	09/21/92-09/21/92	0	1
ISRO0009	00403	PH, LAB, STANDARD UNITS	SU	09/19/92-09/19/92	0	1
ISRO0010	00403	PH, LAB, STANDARD UNITS	SU	09/20/92-09/20/92	0	1
ISRO0011	00403	PH, LAB, STANDARD UNITS	SU	09/20/92-09/20/92	0	1
ISRO0012	00403	PH, LAB, STANDARD UNITS	SU	09/21/92-09/21/92	0	1
ISRO0013	00403	PH, LAB, STANDARD UNITS	SU	09/21/92-09/21/92	0	1
ISRO0015	00403	PH, LAB, STANDARD UNITS	SU	09/20/92-09/20/92	0	1
ISRO0016	00403	PH, LAB, STANDARD UNITS	SU	09/20/92-09/20/92	0	1
ISRO0019	00403	PH, LAB, STANDARD UNITS	SU	10/20/84-10/20/84	0	1
ISRO0005	00405	CARBON DIOXIDE (MG/L AS CO2)		09/27/67-02/03/81	13	39
ISRO0004	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	10/20/84-10/20/84	0	1
ISRO0019	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	10/20/84-10/20/84	0	1
ISRO0001	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		06/25/75-06/25/75	0	2
ISRO0003	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		06/25/75-06/25/75	0	2
ISRO0005	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		02/11/65-10/26/88	23	109
ISRO0014	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		06/26/75-06/26/75	0	2
ISRO0017	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		06/15/76-06/15/76	0	3
ISRO0018	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		05/19/73-11/25/73	0	22
ISRO0021	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		06/26/75-06/26/75	0	2
ISRO0022	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		06/26/75-06/26/75	0	2
ISRO0023	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		06/26/74-08/26/74	0	4
ISRO0024	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		06/26/74-08/26/74	0	4
ISRO0025	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		06/26/74-06/26/75	1	6
ISRO0026	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		06/26/74-06/26/74	0	2
ISRO0005	00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD	MG/L	10/29/86-08/11/87	0	4
ISRO0005	00440	BICARBONATE ION (MG/L AS HCO3)		02/11/65-02/03/88	22	88
ISRO0005	00445	CARBONATE ION (MG/L AS CO3)		02/11/65-02/03/88	22	90
ISRO0005	00447	CARBONATE,INCREMENTAL TITRATION,(CO3) FIELD	MG/L	10/16/85-08/11/87	1	7
ISRO0005	00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELD	MG/L	10/16/85-08/11/87	1	7
ISRO0005	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3,	MG/L	10/21/87-05/08/91	3	13
ISRO0005	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,	MG/L	10/21/87-02/10/93	5	21
ISRO0005	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),	MG/L	10/17/67-10/20/77	10	13
ISRO0005	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)		10/17/67-10/20/77	10	13
ISRO0023	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)		06/26/74-08/26/74	0	4
ISRO0024	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)		06/26/74-08/26/74	0	4
ISRO0025	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)		06/26/74-08/26/74	0	4
ISRO0026	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)		06/26/74-06/26/74	0	2
ISRO0023	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)		06/26/74-08/26/74	0	4
ISRO0024	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)		06/26/74-08/26/74	0	4
ISRO0025	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)		06/26/74-08/26/74	0	4
ISRO0026	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)		06/26/74-06/26/74	0	2
ISRO0023	00553	OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,	MG/KG	08/26/74-08/26/74	0	1
ISRO0025	00553	OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,	MG/KG	08/26/74-08/26/74	0	1
ISRO0005	00600	NITROGEN, TOTAL (MG/L AS N)		02/03/81-10/20/81	0	6
ISRO0005	00602	NITROGEN, DISSOLVED (MG/L AS N)		07/15/81-09/19/92	11	2
ISRO0008	00602	NITROGEN, DISSOLVED (MG/L AS N)		09/21/92-09/21/92	0	1
ISRO0009	00602	NITROGEN, DISSOLVED (MG/L AS N)		09/19/92-09/19/92	0	1
ISRO0010	00602	NITROGEN, DISSOLVED (MG/L AS N)		09/20/92-09/20/92	0	1
ISRO0011	00602	NITROGEN, DISSOLVED (MG/L AS N)		09/20/92-09/20/92	0	1
ISRO0012	00602	NITROGEN, DISSOLVED (MG/L AS N)		09/21/92-09/21/92	0	1
ISRO0013	00602	NITROGEN, DISSOLVED (MG/L AS N)		09/21/92-09/21/92	0	1
ISRO0015	00602	NITROGEN, DISSOLVED (MG/L AS N)		09/20/92-09/20/92	0	1
ISRO0016	00602	NITROGEN, DISSOLVED (MG/L AS N)		09/20/92-09/20/92	0	1
ISRO0005	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)		02/03/81-02/03/87	6	12
ISRO0005	00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)		07/15/81-09/22/82	1	4
ISRO0005	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)		02/03/81-02/10/93	12	53

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Station	Code	Name	Start - End	Years	Obs
ISRO0008	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	09/21/92-09/21/92	0	1
ISRO0009	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	09/19/92-09/19/92	0	1
ISRO0010	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	09/20/92-09/20/92	0	1
ISRO0011	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	09/20/92-09/20/92	0	1
ISRO0012	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	09/21/92-09/21/92	0	1
ISRO0013	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	09/21/92-09/21/92	0	1
ISRO0015	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	09/20/92-09/20/92	0	1
ISRO0016	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	09/20/92-09/20/92	0	1
ISRO0017	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	06/15/76-06/15/76	0	3
ISRO0018	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/19/73-11/25/73	0	27
ISRO0001	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/25/75-06/25/75	0	2
ISRO0003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/25/75-06/25/75	0	2
ISRO0005	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/03/81-10/21/92	11	34
ISRO0014	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/26/75-06/26/75	0	2
ISRO0021	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/26/75-06/26/75	0	2
ISRO0022	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/26/75-06/26/75	0	2
ISRO0023	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/26/74-08/26/74	0	6
ISRO0024	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/26/74-08/26/74	0	6
ISRO0025	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/26/74-06/26/75	1	8
ISRO0026	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/26/74-06/26/74	0	3
ISRO0023	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	08/26/74-08/26/74	0	1
ISRO0024	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	08/26/74-08/26/74	0	1
ISRO0025	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	08/26/74-08/26/74	0	1
ISRO0005	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	10/16/85-02/10/93	7	31
ISRO0008	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/21/92-09/21/92	0	1
ISRO0009	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/19/92-09/19/92	0	1
ISRO0010	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/20/92-09/20/92	0	1
ISRO0011	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/20/92-09/20/92	0	1
ISRO0012	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/21/92-09/21/92	0	1
ISRO0013	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/21/92-09/21/92	0	1
ISRO0015	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/20/92-09/20/92	0	1
ISRO0016	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/20/92-09/20/92	0	1
ISRO0001	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	06/25/75-06/25/75	0	2
ISRO0003	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	06/25/75-06/25/75	0	2
ISRO0005	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/25/90-10/21/92	1	9
ISRO0014	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	06/26/75-06/26/75	0	2
ISRO0021	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	06/26/75-06/26/75	0	2
ISRO0022	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	06/26/75-06/26/75	0	2
ISRO0023	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	06/26/74-08/26/74	0	6
ISRO0024	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	06/26/74-08/26/74	0	6
ISRO0025	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	06/26/74-06/26/75	1	8
ISRO0026	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	06/26/74-06/26/74	0	3
ISRO0023	00616	NITRITE NITROGEN, BOTTOM DEPOS. (MG/KG-N DRY WGT)	08/26/74-08/26/74	0	1
ISRO0024	00616	NITRITE NITROGEN, BOTTOM DEPOS. (MG/KG-N DRY WGT)	08/26/74-08/26/74	0	1
ISRO0025	00616	NITRITE NITROGEN, BOTTOM DEPOS. (MG/KG-N DRY WGT)	08/26/74-08/26/74	0	1
ISRO0005	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	02/11/65-06/06/73	8	52
ISRO0001	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/25/75-06/25/75	0	2
ISRO0003	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/25/75-06/25/75	0	2
ISRO0005	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/07/73-10/07/73	0	1
ISRO0014	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/26/75-06/26/75	0	2
ISRO0021	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/26/75-06/26/75	0	2
ISRO0022	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/26/75-06/26/75	0	2
ISRO0023	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/26/74-08/26/74	0	6
ISRO0024	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/26/74-08/26/74	0	6
ISRO0025	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/26/74-06/26/75	1	8
ISRO0026	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/26/74-06/26/74	0	3
ISRO0005	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	07/15/81-08/13/91	10	6
ISRO0005	00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	07/15/81-09/22/82	1	5
ISRO0001	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/25/75-06/25/75	0	2
ISRO0003	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/25/75-06/25/75	0	2
ISRO0005	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/03/81-02/10/93	12	51
ISRO0014	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/26/75-06/26/75	0	2
ISRO0021	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/26/75-06/26/75	0	2
ISRO0022	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/26/75-06/26/75	0	2
ISRO0023	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/26/74-08/26/74	0	6
ISRO0024	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/26/74-08/26/74	0	6
ISRO0025	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/26/74-06/26/75	1	8
ISRO0026	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/26/74-06/26/74	0	3
ISRO0023	00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	08/26/74-08/26/74	0	1
ISRO0024	00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	08/26/74-08/26/74	0	1
ISRO0025	00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	08/26/74-08/26/74	0	1
ISRO0005	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/19/74-10/21/92	18	60

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Station	Code	Name		Start - End	Years	Obs
ISRO0005	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)		10/24/79-02/10/93	13	60
ISRO0008	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)		09/21/92-09/21/92	0	1
ISRO0009	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)		09/19/92-09/19/92	0	1
ISRO0010	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)		09/20/92-09/20/92	0	1
ISRO0011	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)		09/20/92-09/20/92	0	1
ISRO0012	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)		09/21/92-09/21/92	0	1
ISRO0013	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)		09/21/92-09/21/92	0	1
ISRO0015	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)		09/20/92-09/20/92	0	1
ISRO0016	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)		09/20/92-09/20/92	0	1
ISRO0017	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)		06/15/76-06/15/76	0	3
ISRO0018	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)		05/19/73-11/25/73	0	27
ISRO0020	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)		08/24/68-08/24/68	0	3
ISRO0005	00650	PHOSPHATE, TOTAL (MG/L AS PO4)		05/29/79-05/29/79	0	1
ISRO0005	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		10/24/79-10/21/82	2	8
ISRO0004	00662	PHOSPHORUS (P), WATER, TOTAL RECOVERABLE	UG/L	10/20/84-10/20/84	0	1
ISRO0019	00662	PHOSPHORUS (P), WATER, TOTAL RECOVERABLE	UG/L	10/20/84-10/20/84	0	1
ISRO0001	00665	PHOSPHORUS, TOTAL (MG/L AS P)		06/25/75-06/25/75	0	2
ISRO0003	00665	PHOSPHORUS, TOTAL (MG/L AS P)		06/25/75-06/25/75	0	2
ISRO0005	00665	PHOSPHORUS, TOTAL (MG/L AS P)		02/11/65-02/10/93	27	137
ISRO0014	00665	PHOSPHORUS, TOTAL (MG/L AS P)		06/26/75-06/26/75	0	2
ISRO0017	00665	PHOSPHORUS, TOTAL (MG/L AS P)		06/15/76-06/15/76	0	3
ISRO0018	00665	PHOSPHORUS, TOTAL (MG/L AS P)		05/19/73-11/25/73	0	18
ISRO0021	00665	PHOSPHORUS, TOTAL (MG/L AS P)		06/26/75-06/26/75	0	2
ISRO0022	00665	PHOSPHORUS, TOTAL (MG/L AS P)		06/26/75-06/26/75	0	2
ISRO0023	00665	PHOSPHORUS, TOTAL (MG/L AS P)		06/26/74-08/26/74	0	6
ISRO0024	00665	PHOSPHORUS, TOTAL (MG/L AS P)		06/26/74-08/26/74	0	6
ISRO0025	00665	PHOSPHORUS, TOTAL (MG/L AS P)		06/26/74-06/26/75	1	8
ISRO0026	00665	PHOSPHORUS, TOTAL (MG/L AS P)		06/26/74-06/26/74	0	3
ISRO0005	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)		02/03/81-02/10/93	12	52
ISRO0017	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)		06/15/76-06/15/76	0	3
ISRO0018	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)		05/19/73-11/25/73	0	16
ISRO0023	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)		08/26/74-08/26/74	0	1
ISRO0024	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)		08/26/74-08/26/74	0	1
ISRO0025	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)		08/26/74-08/26/74	0	1
ISRO0005	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		10/24/79-02/10/93	13	48
ISRO0008	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		09/21/92-09/21/92	0	1
ISRO0009	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		09/19/92-09/19/92	0	1
ISRO0010	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		09/20/92-09/20/92	0	1
ISRO0011	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		09/20/92-09/20/92	0	1
ISRO0012	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		09/21/92-09/21/92	0	1
ISRO0013	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		09/21/92-09/21/92	0	1
ISRO0015	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		09/20/92-09/20/92	0	1
ISRO0016	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		09/20/92-09/20/92	0	1
ISRO0017	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		06/15/76-06/15/76	0	3
ISRO0018	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		05/19/73-11/25/73	0	27
ISRO0020	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		08/24/68-08/24/68	0	3
ISRO0005	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		10/22/68-09/22/82	13	10
ISRO0004	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)		10/20/84-10/20/84	0	1
ISRO0005	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)		04/29/81-05/12/82	1	3
ISRO0019	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)		10/20/84-10/20/84	0	1
ISRO0005	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)		04/29/81-05/12/82	1	3
ISRO0017	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)		06/15/76-06/15/76	0	3
ISRO0004	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)		10/20/84-10/20/84	0	1
ISRO0019	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)		10/20/84-10/20/84	0	1
ISRO0005	00720	CYANIDE, TOTAL (MG/L AS CN)	MG/L	10/17/74-05/12/82	7	18
ISRO0001	00900	HARDNESS, TOTAL (MG/L AS CACO3)		06/25/75-06/25/75	0	2
ISRO0003	00900	HARDNESS, TOTAL (MG/L AS CACO3)		06/25/75-06/25/75	0	2
ISRO0005	00900	HARDNESS, TOTAL (MG/L AS CACO3)		02/11/65-02/03/87	21	110
ISRO0014	00900	HARDNESS, TOTAL (MG/L AS CACO3)		06/26/75-06/26/75	0	2
ISRO0021	00900	HARDNESS, TOTAL (MG/L AS CACO3)		06/26/75-06/26/75	0	2
ISRO0022	00900	HARDNESS, TOTAL (MG/L AS CACO3)		06/26/75-06/26/75	0	2
ISRO0023	00900	HARDNESS, TOTAL (MG/L AS CACO3)		06/26/74-08/26/74	0	4
ISRO0024	00900	HARDNESS, TOTAL (MG/L AS CACO3)		06/26/74-08/26/74	0	4
ISRO0025	00900	HARDNESS, TOTAL (MG/L AS CACO3)		06/26/74-06/26/75	1	6
ISRO0026	00900	HARDNESS, TOTAL (MG/L AS CACO3)		06/26/74-06/26/74	0	2
ISRO0005	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)		02/11/65-02/03/87	21	97
ISRO0004	00910	CALCIUM (MG/L AS CACO3)		10/20/84-10/20/84	0	1
ISRO0019	00910	CALCIUM (MG/L AS CACO3)		10/20/84-10/20/84	0	1
ISRO0005	00915	CALCIUM, DISSOLVED (MG/L AS CA)		09/06/67-02/10/93	25	136
ISRO0008	00915	CALCIUM, DISSOLVED (MG/L AS CA)		09/21/92-09/21/92	0	1
ISRO0009	00915	CALCIUM, DISSOLVED (MG/L AS CA)		09/19/92-09/19/92	0	1
ISRO0010	00915	CALCIUM, DISSOLVED (MG/L AS CA)		09/20/92-09/20/92	0	1

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Station	Code	Name		Start - End	Years	Obs
ISRO0011	00915	CALCIUM, DISSOLVED (MG/L AS CA)		09/20/92-09/20/92	0	1
ISRO0012	00915	CALCIUM, DISSOLVED (MG/L AS CA)		09/21/92-09/21/92	0	1
ISRO0013	00915	CALCIUM, DISSOLVED (MG/L AS CA)		09/21/92-09/21/92	0	1
ISRO0015	00915	CALCIUM, DISSOLVED (MG/L AS CA)		09/20/92-09/20/92	0	1
ISRO0016	00915	CALCIUM, DISSOLVED (MG/L AS CA)		09/20/92-09/20/92	0	1
ISRO0017	00915	CALCIUM, DISSOLVED (MG/L AS CA)		06/15/76-06/15/76	0	3
ISRO0023	00916	CALCIUM, TOTAL (MG/L AS CA)		06/26/74-08/26/74	0	4
ISRO0024	00916	CALCIUM, TOTAL (MG/L AS CA)		06/26/74-08/26/74	0	4
ISRO0025	00916	CALCIUM, TOTAL (MG/L AS CA)		06/26/74-08/26/74	0	4
ISRO0026	00916	CALCIUM, TOTAL (MG/L AS CA)		06/26/74-06/26/74	0	2
ISRO0004	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		10/20/84-10/20/84	0	1
ISRO0005	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		09/06/67-02/10/93	25	136
ISRO0008	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		09/21/92-09/21/92	0	1
ISRO0009	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		09/19/92-09/19/92	0	1
ISRO0010	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		09/20/92-09/20/92	0	1
ISRO0011	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		09/20/92-09/20/92	0	1
ISRO0012	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		09/21/92-09/21/92	0	1
ISRO0013	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		09/21/92-09/21/92	0	1
ISRO0015	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		09/20/92-09/20/92	0	1
ISRO0016	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		09/20/92-09/20/92	0	1
ISRO0017	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		06/15/76-06/15/76	0	3
ISRO0019	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		10/20/84-10/20/84	0	1
ISRO0023	00927	MAGNESIUM, TOTAL (MG/L AS MG)		06/26/74-08/26/74	0	4
ISRO0024	00927	MAGNESIUM, TOTAL (MG/L AS MG)		06/26/74-08/26/74	0	4
ISRO0025	00927	MAGNESIUM, TOTAL (MG/L AS MG)		06/26/74-08/26/74	0	4
ISRO0026	00927	MAGNESIUM, TOTAL (MG/L AS MG)		06/26/74-06/26/74	0	2
ISRO0023	00929	SODIUM, TOTAL (MG/L AS NA)		06/26/74-08/26/74	0	4
ISRO0024	00929	SODIUM, TOTAL (MG/L AS NA)		06/26/74-08/26/74	0	4
ISRO0025	00929	SODIUM, TOTAL (MG/L AS NA)		06/26/74-08/26/74	0	4
ISRO0026	00929	SODIUM, TOTAL (MG/L AS NA)		06/26/74-06/26/74	0	2
ISRO0004	00930	SODIUM, DISSOLVED (MG/L AS NA)		10/20/84-10/20/84	0	1
ISRO0005	00930	SODIUM, DISSOLVED (MG/L AS NA)		09/06/67-02/10/93	25	136
ISRO0008	00930	SODIUM, DISSOLVED (MG/L AS NA)		09/21/92-09/21/92	0	1
ISRO0009	00930	SODIUM, DISSOLVED (MG/L AS NA)		09/19/92-09/19/92	0	1
ISRO0010	00930	SODIUM, DISSOLVED (MG/L AS NA)		09/20/92-09/20/92	0	1
ISRO0011	00930	SODIUM, DISSOLVED (MG/L AS NA)		09/20/92-09/20/92	0	1
ISRO0012	00930	SODIUM, DISSOLVED (MG/L AS NA)		09/21/92-09/21/92	0	1
ISRO0013	00930	SODIUM, DISSOLVED (MG/L AS NA)		09/21/92-09/21/92	0	1
ISRO0015	00930	SODIUM, DISSOLVED (MG/L AS NA)		09/20/92-09/20/92	0	1
ISRO0016	00930	SODIUM, DISSOLVED (MG/L AS NA)		09/20/92-09/20/92	0	1
ISRO0017	00930	SODIUM, DISSOLVED (MG/L AS NA)		06/15/76-06/15/76	0	3
ISRO0019	00930	SODIUM, DISSOLVED (MG/L AS NA)		10/20/84-10/20/84	0	1
ISRO0005	00931	SODIUM ADSORPTION RATIO		09/27/67-02/03/87	19	99
ISRO0005	00932	SODIUM, PERCENT		09/27/67-02/03/87	19	100
ISRO0005	00933	SODIUM,PLUS POTASSIUM (MG/L)		09/13/79-03/05/80	0	3
ISRO0004	00935	POTASSIUM, DISSOLVED (MG/L AS K)		10/20/84-10/20/84	0	1
ISRO0005	00935	POTASSIUM, DISSOLVED (MG/L AS K)		09/06/67-02/10/93	25	136
ISRO0008	00935	POTASSIUM, DISSOLVED (MG/L AS K)		09/21/92-09/21/92	0	1
ISRO0009	00935	POTASSIUM, DISSOLVED (MG/L AS K)		09/19/92-09/19/92	0	1
ISRO0010	00935	POTASSIUM, DISSOLVED (MG/L AS K)		09/20/92-09/20/92	0	1
ISRO0011	00935	POTASSIUM, DISSOLVED (MG/L AS K)		09/20/92-09/20/92	0	1
ISRO0012	00935	POTASSIUM, DISSOLVED (MG/L AS K)		09/21/92-09/21/92	0	1
ISRO0013	00935	POTASSIUM, DISSOLVED (MG/L AS K)		09/21/92-09/21/92	0	1
ISRO0015	00935	POTASSIUM, DISSOLVED (MG/L AS K)		09/20/92-09/20/92	0	1
ISRO0016	00935	POTASSIUM, DISSOLVED (MG/L AS K)		09/20/92-09/20/92	0	1
ISRO0017	00935	POTASSIUM, DISSOLVED (MG/L AS K)		06/15/76-06/15/76	0	3
ISRO0019	00935	POTASSIUM, DISSOLVED (MG/L AS K)		10/20/84-10/20/84	0	1
ISRO0023	00937	POTASSIUM, TOTAL MG/L AS K)		06/26/74-08/26/74	0	4
ISRO0024	00937	POTASSIUM, TOTAL MG/L AS K)		06/26/74-08/26/74	0	4
ISRO0025	00937	POTASSIUM, TOTAL MG/L AS K)		06/26/74-08/26/74	0	4
ISRO0026	00937	POTASSIUM, TOTAL MG/L AS K)		06/26/74-06/26/74	0	2
ISRO0001	00940	CHLORIDE,TOTAL IN WATER	MG/L	06/25/75-06/25/75	0	2
ISRO0003	00940	CHLORIDE,TOTAL IN WATER	MG/L	06/25/75-06/25/75	0	2
ISRO0005	00940	CHLORIDE,TOTAL IN WATER	MG/L	02/11/65-02/10/93	27	146
ISRO0008	00940	CHLORIDE,TOTAL IN WATER	MG/L	09/21/92-09/21/92	0	1
ISRO0009	00940	CHLORIDE,TOTAL IN WATER	MG/L	09/19/92-09/19/92	0	1
ISRO0010	00940	CHLORIDE,TOTAL IN WATER	MG/L	09/20/92-09/20/92	0	1
ISRO0011	00940	CHLORIDE,TOTAL IN WATER	MG/L	09/20/92-09/20/92	0	1
ISRO0012	00940	CHLORIDE,TOTAL IN WATER	MG/L	09/21/92-09/21/92	0	1
ISRO0013	00940	CHLORIDE,TOTAL IN WATER	MG/L	09/21/92-09/21/92	0	1
ISRO0014	00940	CHLORIDE,TOTAL IN WATER	MG/L	06/26/75-06/26/75	0	2
ISRO0015	00940	CHLORIDE,TOTAL IN WATER	MG/L	09/20/92-09/20/92	0	1

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Station	Code	Name		Start - End	Years	Obs
ISRO0016	00940	CHLORIDE,TOTAL IN WATER	MG/L	09/20/92-09/20/92	0	1
ISRO0017	00940	CHLORIDE,TOTAL IN WATER	MG/L	06/15/76-06/15/76	0	3
ISRO0018	00940	CHLORIDE,TOTAL IN WATER	MG/L	05/19/73-10/22/73	0	14
ISRO0021	00940	CHLORIDE,TOTAL IN WATER	MG/L	06/26/75-06/26/75	0	2
ISRO0022	00940	CHLORIDE,TOTAL IN WATER	MG/L	06/26/75-06/26/75	0	2
ISRO0023	00940	CHLORIDE,TOTAL IN WATER	MG/L	06/26/74-08/26/74	0	4
ISRO0024	00940	CHLORIDE,TOTAL IN WATER	MG/L	06/26/74-08/26/74	0	4
ISRO0025	00940	CHLORIDE,TOTAL IN WATER	MG/L	06/26/74-06/26/75	1	6
ISRO0026	00940	CHLORIDE,TOTAL IN WATER	MG/L	06/26/74-06/26/74	0	2
ISRO0004	00941	CHLORIDE, DISSOLVED IN WATER	MG/L	10/20/84-10/20/84	0	1
ISRO0019	00941	CHLORIDE, DISSOLVED IN WATER	MG/L	10/20/84-10/20/84	0	1
ISRO0005	00945	SULFATE, TOTAL (MG/L AS SO4)		02/11/65-02/10/93	27	143
ISRO0008	00945	SULFATE, TOTAL (MG/L AS SO4)		09/21/92-09/21/92	0	1
ISRO0009	00945	SULFATE, TOTAL (MG/L AS SO4)		09/19/92-09/19/92	0	1
ISRO0010	00945	SULFATE, TOTAL (MG/L AS SO4)		09/20/92-09/20/92	0	1
ISRO0011	00945	SULFATE, TOTAL (MG/L AS SO4)		09/20/92-09/20/92	0	1
ISRO0012	00945	SULFATE, TOTAL (MG/L AS SO4)		09/21/92-09/21/92	0	1
ISRO0013	00945	SULFATE, TOTAL (MG/L AS SO4)		09/21/92-09/21/92	0	1
ISRO0015	00945	SULFATE, TOTAL (MG/L AS SO4)		09/20/92-09/20/92	0	1
ISRO0016	00945	SULFATE, TOTAL (MG/L AS SO4)		09/20/92-09/20/92	0	1
ISRO0001	00946	SULFATE, DISSOLVED (MG/L AS SO4)		06/25/75-06/25/75	0	2
ISRO0003	00946	SULFATE, DISSOLVED (MG/L AS SO4)		06/25/75-06/25/75	0	2
ISRO0014	00946	SULFATE, DISSOLVED (MG/L AS SO4)		06/26/75-06/26/75	0	2
ISRO0017	00946	SULFATE, DISSOLVED (MG/L AS SO4)		06/15/76-06/15/76	0	3
ISRO0021	00946	SULFATE, DISSOLVED (MG/L AS SO4)		06/26/75-06/26/75	0	2
ISRO0022	00946	SULFATE, DISSOLVED (MG/L AS SO4)		06/26/75-06/26/75	0	2
ISRO0023	00946	SULFATE, DISSOLVED (MG/L AS SO4)		06/26/74-08/26/74	0	4
ISRO0024	00946	SULFATE, DISSOLVED (MG/L AS SO4)		06/26/74-08/26/74	0	4
ISRO0025	00946	SULFATE, DISSOLVED (MG/L AS SO4)		06/26/74-06/26/75	1	6
ISRO0026	00946	SULFATE, DISSOLVED (MG/L AS SO4)		06/26/74-06/26/74	0	2
ISRO0004	00950	FLUORIDE, DISSOLVED (MG/L AS F)		10/20/84-10/20/84	0	1
ISRO0005	00950	FLUORIDE, DISSOLVED (MG/L AS F)		02/11/65-02/10/93	27	141
ISRO0008	00950	FLUORIDE, DISSOLVED (MG/L AS F)		09/21/92-09/21/92	0	1
ISRO0009	00950	FLUORIDE, DISSOLVED (MG/L AS F)		09/19/92-09/19/92	0	1
ISRO0010	00950	FLUORIDE, DISSOLVED (MG/L AS F)		09/20/92-09/20/92	0	1
ISRO0011	00950	FLUORIDE, DISSOLVED (MG/L AS F)		09/20/92-09/20/92	0	1
ISRO0012	00950	FLUORIDE, DISSOLVED (MG/L AS F)		09/21/92-09/21/92	0	1
ISRO0013	00950	FLUORIDE, DISSOLVED (MG/L AS F)		09/21/92-09/21/92	0	1
ISRO0015	00950	FLUORIDE, DISSOLVED (MG/L AS F)		09/20/92-09/20/92	0	1
ISRO0016	00950	FLUORIDE, DISSOLVED (MG/L AS F)		09/20/92-09/20/92	0	1
ISRO0019	00950	FLUORIDE, DISSOLVED (MG/L AS F)		10/20/84-10/20/84	0	1
ISRO0004	00955	SILICA, DISSOLVED (MG/L AS SI02)		10/20/84-10/20/84	0	1
ISRO0005	00955	SILICA, DISSOLVED (MG/L AS SI02)		09/06/67-02/10/93	25	137
ISRO0008	00955	SILICA, DISSOLVED (MG/L AS SI02)		09/21/92-09/21/92	0	1
ISRO0009	00955	SILICA, DISSOLVED (MG/L AS SI02)		09/19/92-09/19/92	0	1
ISRO0010	00955	SILICA, DISSOLVED (MG/L AS SI02)		09/20/92-09/20/92	0	1
ISRO0011	00955	SILICA, DISSOLVED (MG/L AS SI02)		09/20/92-09/20/92	0	1
ISRO0012	00955	SILICA, DISSOLVED (MG/L AS SI02)		09/21/92-09/21/92	0	1
ISRO0013	00955	SILICA, DISSOLVED (MG/L AS SI02)		09/21/92-09/21/92	0	1
ISRO0015	00955	SILICA, DISSOLVED (MG/L AS SI02)		09/20/92-09/20/92	0	1
ISRO0016	00955	SILICA, DISSOLVED (MG/L AS SI02)		09/20/92-09/20/92	0	1
ISRO0017	00955	SILICA, DISSOLVED (MG/L AS SI02)		06/15/76-06/15/76	0	3
ISRO0018	00955	SILICA, DISSOLVED (MG/L AS SI02)		05/19/73-11/25/73	0	27
ISRO0019	00955	SILICA, DISSOLVED (MG/L AS SI02)		10/20/84-10/20/84	0	1
ISRO0020	00955	SILICA, DISSOLVED (MG/L AS SI02)		08/24/68-08/24/68	0	3
ISRO0001	00958	SILICATE, UNFILTERED REACTIVE	(MG/L SIO3 AS SI)	06/25/75-06/25/75	0	2
ISRO0003	00958	SILICATE, UNFILTERED REACTIVE	(MG/L SIO3 AS SI)	06/25/75-06/25/75	0	2
ISRO0014	00958	SILICATE, UNFILTERED REACTIVE	(MG/L SIO3 AS SI)	06/26/75-06/26/75	0	2
ISRO0021	00958	SILICATE, UNFILTERED REACTIVE	(MG/L SIO3 AS SI)	06/26/75-06/26/75	0	2
ISRO0022	00958	SILICATE, UNFILTERED REACTIVE	(MG/L SIO3 AS SI)	06/26/75-06/26/75	0	2
ISRO0023	00958	SILICATE, UNFILTERED REACTIVE	(MG/L SIO3 AS SI)	06/26/74-08/26/74	0	4
ISRO0024	00958	SILICATE, UNFILTERED REACTIVE	(MG/L SIO3 AS SI)	06/26/74-08/26/74	0	4
ISRO0025	00958	SILICATE, UNFILTERED REACTIVE	(MG/L SIO3 AS SI)	06/26/74-06/26/75	1	6
ISRO0026	00958	SILICATE, UNFILTERED REACTIVE	(MG/L SIO3 AS SI)	06/26/74-06/26/74	0	2
ISRO0005	01000	ARSENIC, DISSOLVED (UG/L AS AS)		10/15/70-08/13/91	20	37
ISRO0014	01000	ARSENIC, DISSOLVED (UG/L AS AS)		06/26/75-06/26/75	0	1
ISRO0021	01000	ARSENIC, DISSOLVED (UG/L AS AS)		06/26/75-06/26/75	0	1
ISRO0005	01001	ARSENIC, SUSPENDED (UG/L AS AS)		10/24/79-10/20/81	1	5
ISRO0005	01002	ARSENIC, TOTAL (UG/L AS AS)		10/22/68-05/12/82	13	24
ISRO0014	01002	ARSENIC, TOTAL (UG/L AS AS)		06/26/75-06/26/75	0	1
ISRO0021	01002	ARSENIC, TOTAL (UG/L AS AS)		06/26/75-06/26/75	0	1
ISRO0023	01002	ARSENIC, TOTAL (UG/L AS AS)		06/26/74-08/26/74	0	4

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Station	Code	Name	Start - End	Years	Obs
ISRO0024	01002	ARSENIC, TOTAL (UG/L AS AS)	06/26/74-08/26/74	0	4
ISRO0025	01002	ARSENIC, TOTAL (UG/L AS AS)	06/26/74-08/26/74	0	4
ISRO0026	01002	ARSENIC, TOTAL (UG/L AS AS)	06/26/74-06/26/74	0	2
ISRO0023	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/26/74-08/26/74	0	1
ISRO0024	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/26/74-08/26/74	0	1
ISRO0025	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/26/74-08/26/74	0	1
ISRO0005	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/24/79-02/10/93	13	41
ISRO0005	01006	BARIUM, SUSPENDED (UG/L AS BA)	05/21/80-04/29/81	0	2
ISRO0005	01007	BARIUM, TOTAL (UG/L AS BA)	05/06/74-05/12/82	8	19
ISRO0005	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/24/79-08/13/91	11	35
ISRO0005	01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/15/70-08/13/91	20	37
ISRO0025	01025	CADMIUM, DISSOLVED (UG/L AS CD)	06/26/74-06/26/74	0	2
ISRO0005	01026	CADMIUM, SUSPENDED (UG/L AS CD)	04/29/81-04/29/81	0	1
ISRO0005	01027	CADMIUM, TOTAL (UG/L AS CD)	05/10/68-05/12/82	14	25
ISRO0014	01027	CADMIUM, TOTAL (UG/L AS CD)	06/26/75-06/26/75	0	1
ISRO0021	01027	CADMIUM, TOTAL (UG/L AS CD)	06/26/75-06/26/75	0	1
ISRO0023	01027	CADMIUM, TOTAL (UG/L AS CD)	06/26/74-08/26/74	0	4
ISRO0024	01027	CADMIUM, TOTAL (UG/L AS CD)	06/26/74-08/26/74	0	4
ISRO0025	01027	CADMIUM, TOTAL (UG/L AS CD)	06/26/74-08/26/74	0	4
ISRO0026	01027	CADMIUM, TOTAL (UG/L AS CD)	06/25/74-06/25/74	0	2
ISRO0023	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/26/74-08/26/74	0	1
ISRO0024	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/26/74-08/26/74	0	1
ISRO0025	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/26/74-08/26/74	0	1
ISRO0023	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/26/74-08/26/74	0	1
ISRO0024	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/26/74-08/26/74	0	1
ISRO0025	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/26/74-08/26/74	0	1
ISRO0005	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/14/71-08/13/91	19	35
ISRO0014	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/26/75-06/26/75	0	1
ISRO0021	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/26/75-06/26/75	0	1
ISRO0025	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/26/74-06/26/74	0	2
ISRO0005	01031	CHROMIUM, SUSPEND (UG/L AS CR)	10/24/79-10/20/81	1	5
ISRO0005	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	10/15/70-10/15/70	0	1
ISRO0005	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/10/68-05/12/82	14	26
ISRO0014	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/26/75-06/26/75	0	1
ISRO0021	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/26/75-06/26/75	0	1
ISRO0023	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/26/74-08/26/74	0	4
ISRO0024	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/26/74-08/26/74	0	4
ISRO0025	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/26/74-08/26/74	0	4
ISRO0026	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/25/74-06/25/74	0	2
ISRO0005	01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/70-02/10/93	22	43
ISRO0005	01037	COBALT, TOTAL (UG/L AS CO)	05/10/68-05/14/72	4	7
ISRO0005	01040	COPPER, DISSOLVED (UG/L AS CU)	10/14/71-08/13/91	19	36
ISRO0014	01040	COPPER, DISSOLVED (UG/L AS CU)	06/26/75-06/26/75	0	1
ISRO0017	01040	COPPER, DISSOLVED (UG/L AS CU)	06/15/76-06/15/76	0	3
ISRO0021	01040	COPPER, DISSOLVED (UG/L AS CU)	06/26/75-06/26/75	0	1
ISRO0025	01040	COPPER, DISSOLVED (UG/L AS CU)	06/26/74-06/26/74	0	2
ISRO0005	01041	COPPER, SUSPENDED (UG/L AS CU)	10/20/81-10/20/81	0	1
ISRO0005	01042	COPPER, TOTAL (UG/L AS CU)	05/10/68-05/12/82	14	26
ISRO0014	01042	COPPER, TOTAL (UG/L AS CU)	06/26/75-06/26/75	0	1
ISRO0021	01042	COPPER, TOTAL (UG/L AS CU)	06/26/75-06/26/75	0	1
ISRO0023	01042	COPPER, TOTAL (UG/L AS CU)	06/26/74-08/26/74	0	4
ISRO0024	01042	COPPER, TOTAL (UG/L AS CU)	06/26/74-08/26/74	0	4
ISRO0025	01042	COPPER, TOTAL (UG/L AS CU)	06/26/74-08/26/74	0	4
ISRO0026	01042	COPPER, TOTAL (UG/L AS CU)	06/25/74-06/25/74	0	2
ISRO0023	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/26/74-08/26/74	0	1
ISRO0024	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/26/74-08/26/74	0	1
ISRO0025	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/26/74-08/26/74	0	1
ISRO0005	01044	IRON, SUSPENDED (UG/L AS FE)	05/21/80-05/12/82	1	5
ISRO0005	01045	IRON, TOTAL (UG/L AS FE)	05/10/68-05/12/82	14	27
ISRO0014	01045	IRON, TOTAL (UG/L AS FE)	06/26/75-06/26/75	0	1
ISRO0021	01045	IRON, TOTAL (UG/L AS FE)	06/26/75-06/26/75	0	1
ISRO0023	01045	IRON, TOTAL (UG/L AS FE)	06/26/74-08/26/74	0	4
ISRO0024	01045	IRON, TOTAL (UG/L AS FE)	06/26/74-08/26/74	0	4
ISRO0025	01045	IRON, TOTAL (UG/L AS FE)	06/26/74-08/26/74	0	4
ISRO0026	01045	IRON, TOTAL (UG/L AS FE)	06/25/74-06/25/74	0	2
ISRO0005	01046	IRON, DISSOLVED (UG/L AS FE)	10/15/70-02/10/93	22	51
ISRO0008	01046	IRON, DISSOLVED (UG/L AS FE)	09/21/92-09/21/92	0	1
ISRO0009	01046	IRON, DISSOLVED (UG/L AS FE)	09/19/92-09/19/92	0	1
ISRO0010	01046	IRON, DISSOLVED (UG/L AS FE)	09/20/92-09/20/92	0	1
ISRO0011	01046	IRON, DISSOLVED (UG/L AS FE)	09/20/92-09/20/92	0	1
ISRO0012	01046	IRON, DISSOLVED (UG/L AS FE)	09/21/92-09/21/92	0	1
ISRO0013	01046	IRON, DISSOLVED (UG/L AS FE)	09/21/92-09/21/92	0	1

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Station	Code	Name	Start - End	Years	Obs
ISRO0014	01046	IRON, DISSOLVED (UG/L AS FE)	06/26/75-06/26/75	0	1
ISRO0015	01046	IRON, DISSOLVED (UG/L AS FE)	09/20/92-09/20/92	0	1
ISRO0016	01046	IRON, DISSOLVED (UG/L AS FE)	09/20/92-09/20/92	0	1
ISRO0017	01046	IRON, DISSOLVED (UG/L AS FE)	06/15/76-06/15/76	0	3
ISRO0021	01046	IRON, DISSOLVED (UG/L AS FE)	06/26/75-06/26/75	0	1
ISRO0025	01046	IRON, DISSOLVED (UG/L AS FE)	06/26/74-06/26/74	0	2
ISRO0005	01049	LEAD, DISSOLVED (UG/L AS PB)	10/15/70-08/13/91	20	37
ISRO0014	01049	LEAD, DISSOLVED (UG/L AS PB)	06/26/75-06/26/75	0	1
ISRO0017	01049	LEAD, DISSOLVED (UG/L AS PB)	06/15/76-06/15/76	0	3
ISRO0021	01049	LEAD, DISSOLVED (UG/L AS PB)	06/26/75-06/26/75	0	1
ISRO0025	01049	LEAD, DISSOLVED (UG/L AS PB)	06/26/74-06/26/74	0	2
ISRO0005	01050	LEAD, SUSPENDED (UG/L AS PB)	05/21/80-10/20/81	1	2
ISRO0005	01051	LEAD, TOTAL (UG/L AS PB)	05/10/68-05/12/82	14	25
ISRO0014	01051	LEAD, TOTAL (UG/L AS PB)	06/26/75-06/26/75	0	1
ISRO0021	01051	LEAD, TOTAL (UG/L AS PB)	06/26/75-06/26/75	0	1
ISRO0023	01051	LEAD, TOTAL (UG/L AS PB)	06/26/74-08/26/74	0	4
ISRO0024	01051	LEAD, TOTAL (UG/L AS PB)	06/26/74-08/26/74	0	4
ISRO0025	01051	LEAD, TOTAL (UG/L AS PB)	06/26/74-08/26/74	0	4
ISRO0026	01051	LEAD, TOTAL (UG/L AS PB)	06/25/74-06/25/74	0	2
ISRO0023	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/26/74-08/26/74	0	1
ISRO0024	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/26/74-08/26/74	0	1
ISRO0025	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/26/74-08/26/74	0	1
ISRO0023	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/26/74-08/26/74	0	1
ISRO0024	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/26/74-08/26/74	0	1
ISRO0025	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/26/74-08/26/74	0	1
ISRO0005	01054	MANGANESE, SUSPENDED (UG/L AS MN)	05/21/80-05/12/82	1	5
ISRO0005	01055	MANGANESE, TOTAL (UG/L AS MN)	05/10/68-05/12/82	14	26
ISRO0014	01055	MANGANESE, TOTAL (UG/L AS MN)	06/26/75-06/26/75	0	1
ISRO0021	01055	MANGANESE, TOTAL (UG/L AS MN)	06/26/75-06/26/75	0	1
ISRO0023	01055	MANGANESE, TOTAL (UG/L AS MN)	06/26/74-08/26/74	0	4
ISRO0024	01055	MANGANESE, TOTAL (UG/L AS MN)	06/26/74-08/26/74	0	4
ISRO0025	01055	MANGANESE, TOTAL (UG/L AS MN)	06/26/74-08/26/74	0	4
ISRO0026	01055	MANGANESE, TOTAL (UG/L AS MN)	06/25/74-06/25/74	0	2
ISRO0004	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/20/84-10/20/84	0	1
ISRO0005	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/15/70-02/10/93	22	52
ISRO0008	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/21/92-09/21/92	0	1
ISRO0009	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/19/92-09/19/92	0	1
ISRO0010	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/20/92-09/20/92	0	1
ISRO0011	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/20/92-09/20/92	0	1
ISRO0012	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/21/92-09/21/92	0	1
ISRO0013	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/21/92-09/21/92	0	1
ISRO0014	01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/26/75-06/26/75	0	1
ISRO0015	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/20/92-09/20/92	0	1
ISRO0016	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/20/92-09/20/92	0	1
ISRO0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/20/84-10/20/84	0	1
ISRO0025	01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/26/74-06/26/74	0	2
ISRO0005	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/24/79-02/10/93	13	41
ISRO0005	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/14/71-02/10/93	21	36
ISRO0014	01065	NICKEL, DISSOLVED (UG/L AS NI)	06/26/75-06/26/75	0	1
ISRO0017	01065	NICKEL, DISSOLVED (UG/L AS NI)	06/15/76-06/15/76	0	3
ISRO0021	01065	NICKEL, DISSOLVED (UG/L AS NI)	06/26/75-06/26/75	0	1
ISRO0025	01065	NICKEL, DISSOLVED (UG/L AS NI)	06/26/74-06/26/74	0	2
ISRO0005	01067	NICKEL, TOTAL (UG/L AS NI)	05/10/68-05/14/72	4	7
ISRO0014	01067	NICKEL, TOTAL (UG/L AS NI)	06/26/75-06/26/75	0	1
ISRO0021	01067	NICKEL, TOTAL (UG/L AS NI)	06/26/75-06/26/75	0	1
ISRO0023	01067	NICKEL, TOTAL (UG/L AS NI)	06/26/74-08/26/74	0	4
ISRO0024	01067	NICKEL, TOTAL (UG/L AS NI)	06/26/74-08/26/74	0	4
ISRO0025	01067	NICKEL, TOTAL (UG/L AS NI)	06/26/74-08/26/74	0	4
ISRO0026	01067	NICKEL, TOTAL (UG/L AS NI)	06/25/74-06/25/74	0	2
ISRO0023	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/26/74-08/26/74	0	1
ISRO0024	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/26/74-08/26/74	0	1
ISRO0025	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/26/74-08/26/74	0	1
ISRO0005	01075	SILVER, DISSOLVED (UG/L AS AG)	10/24/79-02/10/93	13	41
ISRO0005	01076	SILVER, SUSPENDED (UG/L AS AG)	10/24/79-04/29/81	1	4
ISRO0005	01077	SILVER, TOTAL (UG/L AS AG)	05/06/74-05/12/82	8	19
ISRO0005	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/24/79-02/10/93	13	41
ISRO0005	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/24/79-02/10/93	13	41
ISRO0005	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/70-08/13/91	20	37
ISRO0014	01090	ZINC, DISSOLVED (UG/L AS ZN)	06/26/75-06/26/75	0	1
ISRO0017	01090	ZINC, DISSOLVED (UG/L AS ZN)	06/15/76-06/15/76	0	3
ISRO0025	01090	ZINC, DISSOLVED (UG/L AS ZN)	06/26/74-06/26/74	0	2
ISRO0005	01091	ZINC, SUSPENDED (UG/L ZN)	04/29/81-10/20/81	0	2

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ISR00005	01092	ZINC, TOTAL (UG/L AS ZN)	05/10/68-05/12/82	14	25
ISR00014	01092	ZINC, TOTAL (UG/L AS ZN)	06/26/75-06/26/75	0	1
ISR00021	01092	ZINC, TOTAL (UG/L AS ZN)	06/26/75-06/26/75	0	1
ISR00023	01092	ZINC, TOTAL (UG/L AS ZN)	06/26/74-08/26/74	0	4
ISR00024	01092	ZINC, TOTAL (UG/L AS ZN)	06/26/74-08/26/74	0	4
ISR00025	01092	ZINC, TOTAL (UG/L AS ZN)	06/26/74-08/26/74	0	4
ISR00026	01092	ZINC, TOTAL (UG/L AS ZN)	06/25/74-06/25/74	0	2
ISR00023	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/26/74-08/26/74	0	1
ISR00024	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/26/74-08/26/74	0	1
ISR00025	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/26/74-08/26/74	0	1
ISR00004	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/20/84-10/20/84	0	1
ISR00019	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/20/84-10/20/84	0	1
ISR00005	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/21/82-02/10/93	10	35
ISR00005	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/24/79-02/10/93	13	41
ISR00005	01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/24/79-02/10/93	13	41
ISR00005	01146	SELENIUM, SUSPENDED (UG/L AS SE)	10/24/79-04/29/81	1	4
ISR00005	01147	SELENIUM, TOTAL (UG/L AS SE)	05/06/74-05/12/82	8	19
ISR00023	01147	SELENIUM, TOTAL (UG/L AS SE)	06/26/74-08/26/74	0	4
ISR00024	01147	SELENIUM, TOTAL (UG/L AS SE)	06/26/74-08/26/74	0	4
ISR00025	01147	SELENIUM, TOTAL (UG/L AS SE)	06/26/74-08/26/74	0	4
ISR00026	01147	SELENIUM, TOTAL (UG/L AS SE)	06/26/74-06/26/74	0	2
ISR00023	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/26/74-08/26/74	0	1
ISR00024	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/26/74-08/26/74	0	1
ISR00025	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/26/74-08/26/74	0	1
ISR00023	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/26/74-08/26/74	0	1
ISR00024	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/26/74-08/26/74	0	1
ISR00025	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/26/74-08/26/74	0	1
ISR00005	01515	ALPHA, DISSOLVED GROSS, AS URANIUM-NATURAL, PC/L	10/17/67-10/26/83	16	10
ISR00005	01516	ALPHA, SUSPEND GROSS, AS URANIUM NATURAL, PC/L	10/17/67-10/22/80	13	9
ISR00023	03501	BETA, TOTAL	06/26/74-08/26/74	0	2
ISR00023	03502	BETA, TOTAL, COUNTING ERROR	06/26/74-08/26/74	0	2
ISR00005	03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	10/17/67-10/21/92	25	35
ISR00005	03516	BETA, SUSPENDED GROSS, AS CS-137, PC/L	10/17/67-10/21/92	25	35
ISR00005	04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	10/21/92-10/21/92	0	1
ISR00005	04127	ALPHA, SUSPENDED, DRY WEIGHT,SED (AS TH-230) PCI/L	10/21/92-10/21/92	0	1
ISR00005	09510	RADIUM 226, DISSOLVED, PLANCHET COUNT	10/11/72-10/11/72	0	1
ISR00005	09511	RADIUM 226, DISSOLVED, RADON METHOD	10/17/67-10/21/92	25	34
ISR00005	22703	URANIUM, NATURAL, DISSOLVED	10/17/67-10/21/92	25	12
ISR00023	27701	ZIRCONIUM 95, TOTAL	06/26/74-08/26/74	0	2
ISR00023	27801	NIOBIUM 95, TOTAL	06/26/74-08/26/74	0	2
ISR00023	28401	CESIUM 137, TOTAL	06/26/74-08/26/74	0	2
ISR00023	29301	ZINC 65, TOTAL	06/26/74-08/26/74	0	2
ISR00023	29501	MANGANESE 54, TOTAL	06/26/74-08/26/74	0	2
ISR00023	29601	COBALT 60, TOTAL	06/26/74-08/26/74	0	2
ISR00007	30344	PENTACHLORODIBENZO-P-DIOXIN,12378,FISH,WET WT,PG/G	06/26/85-06/26/85	0	2
ISR00007	30345	HEXACHLORODIBENZO-P-DIOXIN,123478,FISH,WET WT,PG/G	06/26/85-06/26/85	0	2
ISR00007	30346	HEXACHLORODIBENZO-P-DIOXIN,123678,FISH,WET WT,PG/G	06/26/85-06/26/85	0	2
ISR00007	30347	HEXACHLORODIBENZO-P-DIOXIN,123789,FISH,WET WT,PG/G	06/26/85-06/26/85	0	2
ISR00007	30348	HEPTACHLORODIBENZO-P-DIOXIN,1234678,TIS,WETWT,PG/G	06/26/85-06/26/85	0	2
ISR00007	30349	TETRACHLORODIBENZOFURAN, 2378- , FISH,WET WT.,PG/G	06/26/85-06/26/85	0	2
ISR00007	30350	PENTACHLORODIBENZOFURAN,12378- , FISH,WET WT.,PG/G	06/26/85-06/26/85	0	2
ISR00007	30351	PENTACHLORODIBENZOFURAN,23478- , FISH,WET WT.,PG/G	06/26/85-06/26/85	0	2
ISR00007	30352	HEXACHLORODIBENZOFURAN,123478- , FISH,WET WT.,PG/G	06/26/85-06/26/85	0	2
ISR00007	30353	HEXACHLORODIBENZOFURAN,123678- , FISH,WET WT.,PG/G	06/26/85-06/26/85	0	2
ISR00007	30354	HEXACHLORODIBENZOFURAN,123789- , FISH,WET WT.,PG/G	06/26/85-06/26/85	0	2
ISR00007	30355	HEXACHLORODIBENZOFURAN,234678- , FISH,WET WT.,PG/G	06/26/85-06/26/85	0	2
ISR00007	30356	HEPTACHLORODIBENZOFURAN,1234678- ,FISH,WET WT,PG/G	06/26/85-06/26/85	0	2
ISR00007	30357	HEPTACHLORODIBENZOFURAN,1234789- ,FISH,WET WT,PG/G	06/26/85-06/26/85	0	2
ISR00005	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	02/03/70-09/17/80	10	42
ISR00018	31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	06/22/73-10/22/73	0	6
ISR00023	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/26/74-08/26/74	0	4
ISR00024	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/26/74-08/26/74	0	4
ISR00025	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/26/74-08/26/74	0	4
ISR00026	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/26/74-06/26/74	0	2
ISR00005	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	05/02/70-05/02/70	0	1
ISR00005	31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	09/06/67-03/03/73	5	26
ISR00005	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/29/71-09/21/76	5	20
ISR00018	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/22/73-06/22/73	0	1
ISR00023	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/26/74-08/26/74	0	4
ISR00024	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/26/74-08/26/74	0	4
ISR00025	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/26/74-08/26/74	0	4
ISR00026	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/26/74-06/26/74	0	2

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ISR00005	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	10/20/76-02/10/93	16	71
ISR00005	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/20/76-10/21/92	16	69
ISR00018	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/13/73-09/13/73	0	1
ISR00005	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	05/06/74-09/21/76	2	15
ISR00023	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	06/26/74-08/26/74	0	4
ISR00024	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	06/26/74-08/26/74	0	4
ISR00025	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	06/26/74-08/26/74	0	4
ISR00026	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	06/26/74-06/26/74	0	2
ISR00018	31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	06/22/73-11/25/73	0	9
ISR00001	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/25/75-06/25/75	0	1
ISR00003	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/25/75-06/25/75	0	1
ISR00014	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/26/75-06/26/75	0	1
ISR00021	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/26/75-06/26/75	0	1
ISR00022	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/26/75-06/26/75	0	1
ISR00023	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/26/74-08/26/74	0	4
ISR00024	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/26/74-08/26/74	0	4
ISR00025	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/26/74-06/26/75	1	5
ISR00026	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/26/74-06/26/74	0	2
ISR00020	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	08/24/68-11/03/70	2	4
ISR00007	34395	HEXACHLOROBUTADIENE WET WGTTISMG/KG	06/26/85-06/26/85	0	1
ISR00007	34555	1,2,4-TRICHLOROBENZENE WET WGTTISMG/KG	06/26/85-06/26/85	0	1
ISR00007	34685	ENDRIN WET WGTTISMG/KG	06/26/85-06/26/85	0	1
ISR00007	34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	06/26/85-06/26/85	0	1
ISR00007	34687	HEPTACHLOR WET WGTTISMG/KG	06/26/85-06/26/85	0	1
ISR00007	34688	HEXACHLOROBENZENE WET WGTTISMG/KG	06/26/85-06/26/85	0	1
ISR00007	34754	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN TISWETWTPG/G	06/26/85-06/26/85	0	2
ISR00007	38824	ISOPROPALIN TISWETWGTMG/KG	06/26/85-06/26/85	0	1
ISR00005	39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	10/25/78-10/20/81	2	4
ISR00007	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	06/26/85-06/26/85	0	1
ISR00007	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	06/26/85-06/26/85	0	1
ISR00007	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	06/26/85-06/26/85	0	1
ISR00005	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/21/87-02/10/93	5	21
ISR00023	39102	BIS(2-ETHYLHEXYL) PHTHALATE,SEDIMENT,DRY WGT,UG/KG	08/26/74-08/26/74	0	1
ISR00025	39102	BIS(2-ETHYLHEXYL) PHTHALATE,SEDIMENT,DRY WGT,UG/KG	08/26/74-08/26/74	0	1
ISR00023	39112	DI-N-BUTYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	08/26/74-08/26/74	0	1
ISR00025	39112	DI-N-BUTYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	08/26/74-08/26/74	0	1
ISR00005	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	10/20/76-10/20/81	5	6
ISR00005	39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	10/22/80-10/20/81	0	2
ISR00001	39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00003	39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00014	39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00021	39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00022	39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00025	39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00023	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/26/74-08/26/74	0	1
ISR00025	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/26/74-08/26/74	0	1
ISR00001	39305	O,P' DDT IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00003	39305	O,P' DDT IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00014	39305	O,P' DDT IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00021	39305	O,P' DDT IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00022	39305	O,P' DDT IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00025	39305	O,P' DDT IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00023	39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/26/74-08/26/74	0	1
ISR00025	39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/26/74-08/26/74	0	1
ISR00007	39319	MONOCHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	0	1
ISR00007	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	06/26/85-06/26/85	0	1
ISR00005	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	14	16
ISR00005	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/22/68-10/20/81	12	12
ISR00007	39335	DICHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	0	1
ISR00007	39339	TRICHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	0	1
ISR00005	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	10/17/67-10/20/81	14	16
ISR00005	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	10/22/68-10/20/81	12	12
ISR00007	39345	TETRACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	0	1
ISR00007	39347	PENTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	0	1
ISR00001	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	06/26/75-06/26/75	0	1
ISR00003	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	06/26/75-06/26/75	0	1
ISR00005	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	10/15/70-10/20/81	11	11
ISR00014	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	06/26/75-06/26/75	0	1
ISR00021	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	06/26/75-06/26/75	0	1
ISR00022	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	06/26/75-06/26/75	0	1
ISR00025	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	06/26/75-06/26/75	0	1
ISR00005	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	10/15/70-10/20/81	11	10

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Station	Code	Name	Start - End	Years	Obs
ISR00007	39354	HEPTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	0	1
ISR00007	39355	OCTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	0	1
ISR00001	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00003	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00005	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	14	16
ISR00014	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00021	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00022	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00025	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00005	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/22/68-10/20/81	12	12
ISR00023	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/26/74-08/26/74	0	1
ISR00025	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/26/74-08/26/74	0	1
ISR00001	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00003	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00005	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	14	16
ISR00014	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00021	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00022	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00025	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00005	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/22/68-10/20/81	12	12
ISR00023	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/26/74-08/26/74	0	1
ISR00025	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/26/74-08/26/74	0	1
ISR00005	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	14	16
ISR00005	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/22/68-10/20/81	12	12
ISR00001	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00003	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00005	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	14	16
ISR00014	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00021	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00022	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00025	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00005	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	10/22/68-10/20/81	12	12
ISR00023	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/26/74-08/26/74	0	1
ISR00025	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/26/74-08/26/74	0	1
ISR00005	39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	10/20/77-10/20/81	4	5
ISR00005	39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/22/80-10/20/81	0	2
ISR00005	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	14	16
ISR00005	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/22/68-10/20/81	12	12
ISR00005	39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	10/20/77-10/20/81	4	5
ISR00005	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/17/74-10/20/81	7	8
ISR00005	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	10/07/75-10/20/81	6	7
ISR00007	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	06/26/85-06/26/85	0	1
ISR00007	39408	NONACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	0	1
ISR00007	39409	DECACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	0	1
ISR00005	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	14	16
ISR00005	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	10/22/68-10/20/81	12	12
ISR00005	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/15/70-10/20/81	11	11
ISR00005	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	10/15/70-10/20/81	11	10
ISR00005	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	10/24/79-10/20/81	1	3
ISR00005	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	10/24/79-10/20/81	1	3
ISR00001	39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	06/26/75-06/26/75	0	1
ISR00003	39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	06/26/75-06/26/75	0	1
ISR00014	39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	06/26/75-06/26/75	0	1
ISR00021	39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	06/26/75-06/26/75	0	1
ISR00022	39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	06/26/75-06/26/75	0	1
ISR00025	39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	06/26/75-06/26/75	0	1
ISR00023	39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/26/74-08/26/74	0	1
ISR00025	39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/26/74-08/26/74	0	1
ISR00001	39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	06/26/75-06/26/75	0	1
ISR00003	39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	06/26/75-06/26/75	0	1
ISR00014	39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	06/26/75-06/26/75	0	1
ISR00021	39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	06/26/75-06/26/75	0	1
ISR00022	39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	06/26/75-06/26/75	0	1
ISR00025	39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	06/26/75-06/26/75	0	1
ISR00023	39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/26/74-08/26/74	0	1
ISR00025	39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/26/74-08/26/74	0	1
ISR00023	39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/26/74-08/26/74	0	1
ISR00025	39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/26/74-08/26/74	0	1
ISR00005	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	10/14/71-10/20/81	10	10
ISR00005	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/14/71-10/20/81	10	9
ISR00005	39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	10/15/70-10/20/81	11	9
ISR00005	39531	MALATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/15/70-10/11/72	1	3

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Station	Code	Name	Start - End	Years	Obs
ISR00005	39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	10/15/70-10/20/81	11	9
ISR00005	39541	PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/15/70-10/11/72	1	3
ISR00005	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	10/15/70-10/20/81	11	9
ISR00005	39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/15/70-10/11/72	1	2
ISR00005	39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	10/15/70-10/20/81	11	9
ISR00005	39601	METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	10/15/70-10/11/72	1	3
ISR00005	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	05/10/68-10/20/81	13	14
ISR00005	39731	2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/07/75-10/20/76	1	2
ISR00005	39733	2,4-D IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	10/17/67-10/11/72	4	8
ISR00005	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	05/10/68-10/20/81	13	14
ISR00005	39741	2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/07/75-10/20/76	1	2
ISR00005	39755	MIREX, TOTAL (UG/L)	10/20/77-10/20/81	4	5
ISR00005	39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	10/22/80-10/20/81	0	2
ISR00005	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	05/10/68-10/20/81	13	14
ISR00005	39761	SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/07/75-10/20/76	1	2
ISR00001	39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00003	39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00014	39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00021	39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00022	39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00025	39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	0	1
ISR00007	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	06/26/85-06/26/85	0	1
ISR00005	39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	10/20/77-10/20/81	4	5
ISR00005	39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	10/20/77-10/20/81	4	5
ISR00007	46333	PENTACHLORONITROBENZENE (PCNB) IN TISSUE WET MG/KG	06/26/85-06/26/85	0	1
ISR00004	70151	SURFACE AREA OF LAKE OR RESERVOIR SQ KM	10/20/84-10/20/84	0	1
ISR00019	70151	SURFACE AREA OF LAKE OR RESERVOIR SQ KM	10/20/84-10/20/84	0	1
ISR00005	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/11/65-02/10/93	27	145
ISR00005	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/06/67-02/03/87	19	98
ISR00023	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/26/74-08/26/74	0	4
ISR00024	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/26/74-08/26/74	0	4
ISR00025	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/26/74-08/26/74	0	4
ISR00026	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/26/74-06/26/74	0	2
ISR00005	70302	SOLIDS, DISSOLVED-TONS PER DAY	02/11/65-02/16/83	18	105
ISR00005	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	02/11/65-02/16/83	18	106
ISR00023	70310	PH, STANDARD UNITS, BOTTOM MUDS	08/26/74-08/26/74	0	1
ISR00024	70310	PH, STANDARD UNITS, BOTTOM MUDS	08/26/74-08/26/74	0	1
ISR00025	70310	PH, STANDARD UNITS, BOTTOM MUDS	08/26/74-08/26/74	0	1
ISR00023	70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	08/26/74-08/26/74	0	1
ISR00024	70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	08/26/74-08/26/74	0	1
ISR00025	70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	08/26/74-08/26/74	0	1
ISR00023	70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	08/26/74-08/26/74	0	1
ISR00024	70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	08/26/74-08/26/74	0	1
ISR00025	70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	08/26/74-08/26/74	0	1
ISR00005	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	05/04/76-06/16/92	16	47
ISR00001	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/25/75-06/25/75	0	2
ISR00003	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/25/75-06/25/75	0	2
ISR00005	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/25/90-10/21/92	1	9
ISR00014	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/26/75-06/26/75	0	2
ISR00021	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/26/75-06/26/75	0	2
ISR00022	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/26/75-06/26/75	0	2
ISR00023	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/26/74-08/26/74	0	6
ISR00024	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/26/74-08/26/74	0	6
ISR00025	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/26/74-06/26/75	1	8
ISR00026	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/26/74-06/26/74	0	3
ISR00007	70977	INSTRUMENT RATIO, LAB/FIELD CONCENTRATIONS, NUMBER	06/26/85-06/26/85	0	2
ISR00005	71835	OXYGEN CONSUMED, FILTERED MG/L	09/06/67-09/27/67	0	2
ISR00005	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	02/03/81-02/03/81	0	1
ISR00005	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	02/03/81-02/03/87	6	18
ISR00004	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/20/84-10/20/84	0	1
ISR00005	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	02/11/65-06/06/73	8	52
ISR00019	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/20/84-10/20/84	0	1
ISR00005	71883	MANGANESE, TOTAL ELEMENTAL (UG/L AS MN)	09/06/67-10/07/73	6	16
ISR00004	71885	IRON (UG/L AS FE)	10/20/84-10/20/84	0	1
ISR00005	71885	IRON (UG/L AS FE)	09/06/67-10/07/73	6	15
ISR00019	71885	IRON (UG/L AS FE)	10/20/84-10/20/84	0	1
ISR00005	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/06/67-10/29/86	19	72
ISR00005	71887	NITROGEN, TOTAL, AS NO3 - MG/L	02/03/81-10/20/81	0	6
ISR00005	71890	MERCURY, DISSOLVED (UG/L AS HG)	07/11/70-08/13/91	21	39
ISR00025	71890	MERCURY, DISSOLVED (UG/L AS HG)	06/26/74-06/26/74	0	2
ISR00005	71895	MERCURY, SUSPENDED (UG/L AS HG)	10/24/79-10/20/81	1	3
ISR00005	71900	MERCURY, TOTAL (UG/L AS HG)	10/15/70-05/12/82	11	21

Station/Parameter Period of Record Tabulation
From 08/06/62 To 02/10/93

Station	Code	Name	Start - End	Years	Obs
ISR00014	71900	MERCURY, TOTAL (UG/L AS HG)	06/26/75-06/26/75	0	1
ISR00021	71900	MERCURY, TOTAL (UG/L AS HG)	06/26/75-06/26/75	0	1
ISR00023	71900	MERCURY, TOTAL (UG/L AS HG)	06/26/74-08/26/74	0	4
ISR00024	71900	MERCURY, TOTAL (UG/L AS HG)	06/26/74-08/26/74	0	4
ISR00025	71900	MERCURY, TOTAL (UG/L AS HG)	06/26/74-08/26/74	0	4
ISR00026	71900	MERCURY, TOTAL (UG/L AS HG)	06/25/74-06/25/74	0	2
ISR00023	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/26/74-08/26/74	0	1
ISR00024	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/26/74-08/26/74	0	1
ISR00025	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/26/74-08/26/74	0	1
ISR00007	71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	06/26/85-06/26/85	0	2
ISR00004	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	10/20/84-10/20/84	0	1
ISR00019	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	10/20/84-10/20/84	0	1
ISR00005	75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	04/26/89-10/21/92	3	8
ISR00005	75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	04/26/89-10/21/92	3	8
ISR00005	75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	04/26/89-10/21/92	3	8
ISR00005	75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	04/26/89-10/21/92	3	8
ISR00005	75990	URANIUM,NATURAL,1 SIGMA PRC EST,DISS,WATER UG/L	05/22/90-10/21/92	2	6
ISR00005	76001	RADIUM 226,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	05/22/90-10/21/92	2	6
ISR00005	76004	ALPHA GROSS,SUSP,1 SIGMA PRC EST AS TH230,WTR PC/L	04/26/89-10/21/92	3	8
ISR00005	76005	BETA GROSS,SUSP,1 SIGMA PRC EST AS SR90/Y90 PC/L	04/26/89-10/21/92	3	8
ISR00007	76530	BIPHENYL TISSUE ,WET WGT,MG/KG	06/26/85-06/26/85	0	1
ISR00007	78907	HEXACHLOROBIPHENYLS IN FISH TISSUE WET WGT. MG/KG	06/26/85-06/26/85	0	1
ISR00007	78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	06/26/85-06/26/85	0	1
ISR00007	78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	06/26/85-06/26/85	0	1
ISR00007	79026	1,2,3,4,-TETRACHLOROBENZENE IN FISH WET WGT MG/KG	06/26/85-06/26/85	0	1
ISR00005	80020	URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD	05/10/68-05/06/87	18	24
ISR00005	80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	10/17/67-10/21/92	25	35
ISR00005	80040	ALPHA,SUSPENDED GROSS, AS URANIUM-NATURAL, UG/L	10/17/67-10/21/92	25	35
ISR00005	80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	10/17/67-10/21/92	25	35
ISR00005	80060	BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L	10/17/67-10/21/92	25	35
ISR00005	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	08/06/62-06/16/92	29	102
ISR00005	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	08/06/62-09/22/82	20	62
ISR00005	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	09/22/65-10/14/71	6	8
ISR00005	80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	09/22/65-10/14/71	6	8
ISR00005	80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	09/22/65-10/14/71	6	8
ISR00005	80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	09/22/65-10/14/71	6	8
ISR00005	80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	09/22/65-10/14/71	6	8
ISR00005	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	09/22/65-10/14/71	6	8
ISR00005	80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	09/22/65-10/14/71	6	8
ISR00005	80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	09/22/65-10/14/71	6	8
ISR00005	80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	09/22/65-10/14/71	6	8
ISR00005	80173	BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM	09/22/65-10/14/71	6	7
ISR00005	80174	BED MATERIAL SIEVE DIAMETER,% FINER THAN 64.0MM	07/19/67-10/15/70	3	3
ISR00007	81312	POLYCHLORINATEDBIPHENYLS FISH TISSUE WET WGT MG/KG	06/26/85-06/26/85	0	1
ISR00007	81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	06/26/85-06/26/85	0	1
ISR00007	81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	06/26/85-06/26/85	0	1
ISR00007	81652	TREFLAN IN FISH TISSUE WET WEIGHT MG/KG	06/26/85-06/26/85	0	1
ISR00007	81807	DURSBAN IN FISH TISSUE WET WEIGHT MG/KG	06/26/85-06/26/85	0	1
ISR00007	81823	PENTACHLOROANISOLE(PCA)INFISH TISSUE WET WGT MG/KG	06/26/85-06/26/85	0	1
ISR00005	81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	10/22/80-10/20/81	0	2
ISR00007	82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	06/26/85-06/26/85	0	1
ISR00004	82047	DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	10/20/84-10/20/84	0	1
ISR00019	82047	DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	10/20/84-10/20/84	0	1
ISR00005	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	02/03/81-07/15/81	0	4
ISR00004	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/20/84-10/20/84	0	1
ISR00019	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/20/84-10/20/84	0	1
ISR00005	82183	2,4-DP (DICHLORPROP) TOTAL UG/L	10/22/80-10/20/81	0	2
ISR00007	85675	TRICHLOROBENZENE,1,3,5- TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	0	1
ISR00007	85676	TRICHLOROBENZENE,1,2,3- TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	0	1
ISR00007	85677	TETRACHLOROBENZENE,1,2,4,5- TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	0	1
ISR00007	85678	TETRACHLOROBENZENE,1,2,3,5- TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	0	1
ISR00007	85679	PENTACHLOROBENZENE TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	0	1
ISR00007	85680	DIPHENYL DISULFIDE TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	0	1
ISR00007	85681	OCTACHLOROSTYRENE TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	0	1
ISR00007	85682	NITROFEN TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	0	1
ISR00007	85683	PERTHANE TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	0	1
ISR00007	85684	DICOFOL (KELTHANE) TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	0	1

Station-By-Station Results

Station Inventory for Station: ISR00001

NPS Station ID: ISR00001 LAT/LON: 47.808337/ -89.166671 Agency: 21MICH Date Created: 06/08/77
Location: LAKE SUPERIOR 30M. CONTOUR ISLE ROYALE FIPS State/County: 26996 MICHIGAN/
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 420037
RMI-Indexes:
RMI-Miles:
HUC: 04020300 Depth of Water: 100 Aquifer:
Major Basin: MAJ BASIN: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: OFF SOUTHWEST TIP ISLE ROYALE ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:

LAKE SUPERIOR (AT ISLE ROYALE) AT THE 30 METER CONTOUR (100 FEET). THIS STATION IS LOCATED DIRECTLY SOUTH OF THE EXTREME SOUTHWEST POINT OF ISLE ROYALE (BETWEEN RAINBOW POINT AND LONG POINT). WATER QUALITY SAMPLES WERE TAKEN AT THIS STATION.

Parameter Inventory for Station: ISR00001

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/25/75-06/25/75	2	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/25/75-06/25/75	2	99.5	99.5	100.	99.	0.5	0.707	**	**	**	**
00335 COD, .025N K2CR207 MG/L	06/25/75-06/25/75	2	2.85	2.85	3.2	2.5	0.245	0.495	**	**	**	**
00400 PH (STANDARD UNITS)	06/25/75-06/25/75	2	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	06/25/75-06/25/75	2	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/25/75-06/25/75	2	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	06/25/75-06/25/75	2	40.	40.	41.	39.	2.	1.414	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/25/75-06/25/75	2##	0.001	0.001	0.002	0.001	0.	0.001	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	06/25/75-06/25/75	2##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	06/25/75-06/25/75	2	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/25/75-06/25/75	2	0.114	0.114	0.134	0.093	0.001	0.029	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	06/25/75-06/25/75	2##	0.006	0.006	0.012	0.001	0.	0.008	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	06/25/75-06/25/75	2	44.	44.	44.	44.	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	06/25/75-06/25/75	2	1.	1.	1.	1.	0.	0.	**	**	**	**
00946 SULFATE, DISSOLVED (MG/L AS SO4)	06/25/75-06/25/75	2	3.35	3.35	3.7	3.	0.245	0.495	**	**	**	**
00958 SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	06/25/75-06/25/75	2	1.	1.	1.	1.	0.	0.	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/25/75-06/25/75	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39300 P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39305 O,P' DDT IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39350 CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39360 DDD IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39365 DDE IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39380 DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
39496 PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	06/26/75-06/26/75	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39504 PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	06/26/75-06/26/75	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39782 LINDANE IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/25/75-06/25/75	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

EPA Water Quality Criteria Analysis for Station: ISRO0001

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	2	0	0.00							2	0	0.00			
00400	PH	Other-Hi Lim.	9.	2	0	0.00							2	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00							2	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	2	0	0.00							2	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	2	0	0.00							2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00							2	0	0.00			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	2	0	0.00							2	0	0.00			
39300	P,P' DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	1	0	0.00							1	0	0.00			
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	1	0	0.00							1	0	0.00			
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	1	0	0.00							1	0	0.00			
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	1	0	0.00							1	0	0.00			
39782	LINDANE IN WHOLE WATER SAMPLE	Fresh Acute	2.	1	0	0.00							1	0	0.00			
		Drinking Water	0.2	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: ISR00002

NPS Station ID: ISR00002 LAT/LON: 47.843060/ -89.207226 Agency: AIJCCCIW Date Created: 09/16/89
Location: OPEN LAKE STATION FIPS State/County: 26996 MICHIGAN/
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): C86SU155A
RMI-Indexes:
RMI-Miles:
HUC: 04020300 Depth of Water: 55 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: OPEN LAKE ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: ISR00002

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/18/87-05/18/87	2	5.	5.	5.	5.	0.	0.	**	**	**	**
00078 TRANSPARENCY, SECCHI DISC (METERS)	05/18/87-05/18/87	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00079 COLOR, WATER (FOREL-ULE SCALE)	05/18/87-05/18/87	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

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

Station Inventory for Station: ISR00003

NPS Station ID: ISR00003 LAT/LON: 47.919448/ -89.210281 Agency: 21MICH Date Created: 06/08/77
Location: LAKE SUPERIOR 40M. CONTOUR ISLE ROYALE FIPS State/County: 26996 MICHIGAN/
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 420038
RMI-Indexes:
RMI-Miles:
HUC: 04020300 Depth of Water: 130 Aquifer:
Major Basin: MAJ BASIN: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: IN MCGINTY COVE ISLE ROYALE ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:

LAKE SUPERIOR (AT ISLE ROYALE) AT THE 40 METER CONTOUR (130 FEET). THIS STATION IS LOCATED IN THE MIDDLE OF MCGINTY COVE, DIRECTLY NORTH-EAST OF THE ROCK OF AGES LIGHT. WATER QUALITY SAMPLES WERE TAKEN AT THIS STATION.

Parameter Inventory for Station: ISR00003

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/25/75-06/25/75	2	0.65	0.65	0.8	0.5	0.045	0.212	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/25/75-06/25/75	2	98.5	98.5	99.	98.	0.5	0.707	**	**	**	**
00335 COD, .025N K2CR2O7 MG/L	06/25/75-06/25/75	2	2.2	2.2	2.5	1.9	0.18	0.424	**	**	**	**
00400 PH (STANDARD UNITS)	06/25/75-06/25/75	2	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	06/25/75-06/25/75	2	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/25/75-06/25/75	2	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	06/25/75-06/25/75	2	41.	41.	41.	41.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/25/75-06/25/75	2##	0.001	0.001	0.002	0.001	0.	0.001	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	06/25/75-06/25/75	2##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	06/25/75-06/25/75	2	0.305	0.305	0.31	0.3	0.	0.007	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/25/75-06/25/75	2	0.118	0.118	0.132	0.103	0.	0.021	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	06/25/75-06/25/75	2	0.003	0.003	0.003	0.002	0.	0.001	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	06/25/75-06/25/75	2	44.	44.	44.	44.	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	06/25/75-06/25/75	2	1.	1.	1.	1.	0.	0.	**	**	**	**
00946 SULFATE, DISSOLVED (MG/L AS SO4)	06/25/75-06/25/75	2	3.75	3.75	3.9	3.6	0.045	0.212	**	**	**	**
00958 SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	06/25/75-06/25/75	2	1.	1.	1.	1.	0.	0.	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/25/75-06/25/75	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
39300 P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39305 O,P' DDT IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39350 CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39360 DDD IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39365 DDE IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39380 DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
39496 PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	06/26/75-06/26/75	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39504 PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	06/26/75-06/26/75	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39782 LINDANE IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/25/75-06/25/75	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

EPA Water Quality Criteria Analysis for Station: ISR00003

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	2	0	0.00							2	0	0.00			
00400	PH	Other-Hi Lim.	9.	2	0	0.00							2	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00							2	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	2	0	0.00							2	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	2	0	0.00							2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00							2	0	0.00			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	2	0	0.00							2	0	0.00			
39300	P,P' DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	1	0	0.00							1	0	0.00			
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	1	0	0.00							1	0	0.00			
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	1	0	0.00							1	0	0.00			
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	1	0	0.00							1	0	0.00			
39782	LINDANE IN WHOLE WATER SAMPLE	Fresh Acute	2.	1	0	0.00							1	0	0.00			
		Drinking Water	0.2	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: ISR00004

NPS Station ID: ISR00004 LAT/LON: 47.920837/ -88.983337 Agency: 12ELS1 Date Created: 04/16/88
Location: (NO NAME) FIPS State/County: 26083 MICHIGAN/KEWEENAW
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 2B3-067
RMI-Indexes:
RMI-Miles:
HUC: 04020300 Depth of Water: 3 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: ISR00004

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/20/84-10/20/84	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00078 TRANSPARENCY, SECCHI DISC (METERS)	10/20/84-10/20/84	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	10/20/84-10/20/84	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/20/84-10/20/84	1	98.	98.	98.	98.	0.	0.	**	**	**	**
00154 SULFATE (AS S) WHOLE WATER, MG/L	10/20/84-10/20/84	1	1.43	1.43	1.43	1.43	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	10/20/84-10/20/84	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	10/20/84-10/20/84	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/20/84-10/20/84	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00409 ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	10/20/84-10/20/84	1	1020.7	1020.7	1020.7	1020.7	0.	0.	**	**	**	**
00662 PHOSPHORUS (P), WATER, TOTAL RECOVERABLE UG/L	10/20/84-10/20/84	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00681 CARBON, DISSOLVED ORGANIC (MG/L AS C)	10/20/84-10/20/84	1	5.4	5.4	5.4	5.4	0.	0.	**	**	**	**
00691 CARBON, DISSOLVED INORGANIC (MG/L AS C)	10/20/84-10/20/84	1	12.6	12.6	12.6	12.6	0.	0.	**	**	**	**
00910 CALCIUM (MG/L AS CACO3)	10/20/84-10/20/84	1	15.3	15.3	15.3	15.3	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	10/20/84-10/20/84	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	10/20/84-10/20/84	1	1.72	1.72	1.72	1.72	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	10/20/84-10/20/84	1	0.26	0.26	0.26	0.26	0.	0.	**	**	**	**
00941 CHLORIDE, DISSOLVED IN WATER MG/L	10/20/84-10/20/84	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	10/20/84-10/20/84	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SI02)	10/20/84-10/20/84	1	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS MN)	10/20/84-10/20/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01105 ALUMINUM, TOTAL (UG/L AS AL)	10/20/84-10/20/84	1	4.	4.	4.	4.	0.	0.	**	**	**	**
70151 SURFACE AREA OF LAKE OR RESERVOIR SQ KM	10/20/84-10/20/84	1	0.047	0.047	0.047	0.047	0.	0.	**	**	**	**
71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/20/84-10/20/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
71885 IRON (UG/L AS FE)	10/20/84-10/20/84	1	140.	140.	140.	140.	0.	0.	**	**	**	**
72020 ELEVATION IN FEET ABOVE MEAN SEA LEVEL	10/20/84-10/20/84	1	669.98	669.98	669.98	669.98	0.	0.	**	**	**	**
82047 DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	10/20/84-10/20/84	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/20/84-10/20/84	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: ISR00004

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
00154 SULFATE (AS S) WHOLE WATER	Drinking Water	400.	1	0	0.00										1	0	0.00

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

EPA Water Quality Criteria Analysis for Station: ISR00004

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00409 ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	1	0	0.00										1	0	0.00
00941 CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00										1	0	0.00
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00										1	0	0.00
82079 TURBIDITY, LAB	Other-Hi Lim.	50.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: ISR00005

NPS Station ID: ISR00005 LAT/LON: 47.923059/ -89.145003 Agency: 112WRD Date Created: / /
Location: WASHINGTON CR AT WINDIGO ISLE ROYALE MI FIPS State/County: 26083 MICHIGAN/KEWEENAW
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 04001000
RMI-Indexes:
RMI-Miles:
HUC: 04020300 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004 STREAM WIDTH (FEET)	05/05/75-09/21/76	9	4.	10.	29.	2.	126.75	11.258	2.	2.	22.5	29.
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/11/65-02/10/93	197	8.	8.27	20.5	0.	37.275	6.105	0.	2.75	14.	16.5
00055 VELOCITY, STREAM FT/SEC	05/05/75-09/21/76	8	1.5	1.6	3.4	0.4	0.857	0.926	**	**	**	**
00060 FLOW, STREAM, MEAN DAILY CFS	10/17/67-02/01/72	3	5.	4.667	6.	3.	2.333	1.528	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	08/06/62-02/10/93	172	6.	14.216	157.	0.5	510.825	22.601	2.	2.	15.75	44.8
00064 DEPTH OF STREAM, MEAN (FT)	05/05/75-09/21/76	9	0.5	0.7	1.8	0.3	0.25	0.5	0.3	0.35	0.95	1.8
00065 STAGE, STREAM (FEET)	05/12/65-02/10/93	158	3.225	3.317	5.39	1.79	0.239	0.489	2.839	3.015	3.613	3.955
00076p TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/21/82-02/10/93	40	1.6	2.275	14.	1.	4.663	2.16	1.12	1.4	2.075	3.97
00080 COLOR (PLATINUM-COBALT UNITS)	05/12/65-10/07/73	49	70.	79.796	170.	30.	1171.832	34.232	50.	50.	100.	130.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/65-02/10/93	182	128.	129.786	246.	50.	1956.965	44.238	67.3	94.75	161.25	191.4
00300p OXYGEN, DISSOLVED MG/L	09/27/67-02/10/93	136	11.55	11.128	16.8	7.3	3.186	1.785	8.97	9.525	12.375	13.4
00301p OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/27/67-02/16/83	77	92.	91.571	117.	68.	83.459	9.136	78.6	86.	96.5	104.
00310 BOD, 5 DAY, 20 DEG C MG/L	09/06/67-06/06/73	32	1.6	1.972	9.6	0.4	2.987	1.728	0.8	1.2	2.175	3.
00400p PH (STANDARD UNITS)	02/11/65-02/10/93	181	7.5	7.478	8.1	6.3	0.104	0.322	7.02	7.3	7.7	7.8
00400p CONVERTED PH (STANDARD UNITS)	02/11/65-02/10/93	181	7.5	7.334	8.1	6.3	0.124	0.353	7.02	7.3	7.7	7.8
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/65-02/10/93	181	0.032	0.046	0.501	0.008	0.003	0.054	0.016	0.02	0.05	0.096
00403p PH, LAB, STANDARD UNITS SU	10/22/80-02/10/93	53	7.7	7.636	8.5	7.	0.087	0.296	7.2	7.4	7.8	7.9
00403p CONVERTED PH, LAB, STANDARD UNITS	10/22/80-02/10/93	53	7.7	7.539	8.5	7.	0.097	0.311	7.2	7.4	7.8	7.9
00403p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/22/80-02/10/93	53	0.02	0.029	0.1	0.003	0.	0.02	0.013	0.016	0.04	0.063
00405 CARBON DIOXIDE (MG/L AS CO2)	09/27/67-02/03/81	39	6.	7.005	25.	0.5	30.839	5.553	1.9	3.8	8.	16.
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	02/11/65-10/26/88	109	60.	58.275	106.	0.	548.183	23.413	26.	42.	76.	88.
00419 ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	10/29/86-08/11/87	4	61.	64.75	85.	52.	224.25	14.975	**	**	**	**
00440p BICARBONATE ION (MG/L AS HCO3)	02/11/65-02/03/88	88	75.	73.386	129.	0.	870.125	29.498	32.	56.25	98.25	110.
00445p CARBONATE ION (MG/L AS CO3)	02/11/65-02/03/88	90	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00447 CARBONATE,INCREMENTAL TITRATION,(CO3) FIELD MG/L	10/16/85-08/11/87	7	0.	0.	0.	0.	0.	0.	**	**	**	**
00450 BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	10/16/85-08/11/87	7	54.	44.143	76.	0.	1054.143	32.468	**	**	**	**
00452 CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/21/87-05/08/91	13	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00453 BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	10/21/87-02/10/93	21	77.	70.857	118.	24.	767.529	27.704	28.4	46.5	91.	111.8
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/17/67-10/20/77	13	110.	104.769	140.	64.	591.026	24.311	66.4	83.	125.	136.
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/17/67-10/20/77	13	1.	3.577	23.	0.5	38.285	6.188	0.5	0.75	3.	17.
00600 NITROGEN, TOTAL (MG/L AS N)	02/03/81-10/20/81	6	0.445	0.45	0.63	0.29	0.02	0.142	**	**	**	**
00602 NITROGEN, DISSOLVED (MG/L AS N)	07/15/81-09/19/92	2	0.465	0.465	0.63	0.3	0.054	0.233	**	**	**	**
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	02/03/81-02/03/87	12	0.485	0.471	0.68	0.2	0.019	0.137	0.209	0.44	0.57	0.65
00607 NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	07/15/81-09/22/82	4	0.545	0.568	1.1	0.08	0.174	0.417	**	**	**	**
00608p NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	02/03/81-02/10/93	53	0.03	0.038	0.37	0.005	0.003	0.053	0.005	0.02	0.04	0.05
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/03/81-10/21/92	34	0.03	0.032	0.06	0.	0.	0.014	0.015	0.02	0.04	0.05
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	10/16/85-02/10/93	31##	0.005	0.006	0.01	0.005	0.	0.002	0.005	0.005	0.005	0.01
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	10/25/90-10/21/92	9##	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 time series plot

Parameter Inventory for Station: ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00618 NITRATE NITROGEN, DISSOLVED (MG/L AS N)	02/11/65-06/06/73	52	0.14	0.155	0.34	0.	0.006	0.076	0.09	0.11	0.18	0.27
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	10/07/73-10/07/73	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
00623 NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	07/15/81-08/13/91	6	0.53	0.538	1.1	0.1	0.106	0.325	**	**	**	**
00624 NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	07/15/81-09/22/82	5	0.1	0.208	0.7	0.	0.081	0.285	**	**	**	**
00625p NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/03/81-02/10/93	51	0.5	0.556	1.3	0.23	0.051	0.226	0.3	0.4	0.61	0.8
00630p NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/19/74-10/21/92	60	0.05	0.074	0.21	0.01	0.003	0.052	0.02	0.04	0.11	0.159
00631p NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/24/79-02/10/93	60##	0.05	0.066	0.2	0.02	0.002	0.043	0.027	0.05	0.085	0.1
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	05/29/79-05/29/79	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)	10/24/79-10/21/82	8	0.	0.011	0.06	0.	0.	0.022	**	**	**	**
00665p PHOSPHORUS, TOTAL (MG/L AS P)	02/11/65-02/10/93	137	0.01	0.019	0.17	0.	0.001	0.024	0.005	0.01	0.02	0.05
00666p PHOSPHORUS, DISSOLVED (MG/L AS P)	02/03/81-02/10/93	52##	0.008	0.01	0.06	0.005	0.	0.01	0.005	0.005	0.01	0.02
00671p PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/24/79-02/10/93	48##	0.005	0.005	0.02	0.	0.	0.004	0.	0.005	0.005	0.006
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	10/22/68-09/22/82	10	13.	15.4	42.	5.7	108.762	10.429	5.82	8.775	19.25	39.8
00681 CARBON, DISSOLVED ORGANIC (MG/L AS C)	04/29/81-05/12/82	3	16.	15.	16.	13.	3.	1.732	**	**	**	**
00689 CARBON, SUSPENDED ORGANIC (MG/L AS C)	04/29/81-05/12/82	3	0.1	0.133	0.2	0.1	0.003	0.058	**	**	**	**
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	10/17/74-05/12/82	18	0.	0.001	0.005	0.	0.	0.002	0.	0.	0.	0.005
00900p HARDNESS, TOTAL (MG/L AS CACO3)	02/11/65-02/03/87	110	68.	67.918	120.	29.	421.764	20.537	39.1	53.75	82.	95.8
00902p HARDNESS, NON-CARBONATE (MG/L AS CACO3)	02/11/65-02/03/87	97	7.	7.474	16.	0.	12.481	3.533	3.	5.	10.	12.2
00915p CALCIUM, DISSOLVED (MG/L AS CA)	09/06/67-02/10/93	136	18.5	17.91	32.	7.2	33.033	5.747	9.55	13.	21.	26.
00925p MAGNESIUM, DISSOLVED (MG/L AS MG)	09/06/67-02/10/93	136	5.1	5.25	10.	2.2	2.855	1.69	2.94	4.1	6.4	7.66
00930p SODIUM, DISSOLVED (MG/L AS NA)	09/06/67-02/10/93	136	3.	3.21	8.2	0.9	1.88	1.371	1.6	2.225	4.	5.13
00931p SODIUM ADSORPTION RATIO	09/27/67-02/03/87	99	0.2	0.168	0.4	0.1	0.004	0.062	0.1	0.1	0.2	0.2
00932p SODIUM, PERCENT	09/27/67-02/03/87	100	9.	9.14	15.	6.	2.566	1.602	7.1	8.	10.	11.
00933 SODIUM,PLUS POTASSIUM (MG/L)	09/13/79-03/05/80	3	4.1	4.233	5.1	3.5	0.653	0.808	**	**	**	**
00935p POTASSIUM, DISSOLVED (MG/L AS K)	09/06/67-02/10/93	136	0.5	0.532	1.2	0.05	0.036	0.19	0.3	0.4	0.6	0.8
00940p CHLORIDE,TOTAL IN WATER MG/L	02/11/65-02/10/93	146	3.	3.502	15.	0.	6.257	2.501	1.	2.	5.	6.
00945p SULFATE, TOTAL (MG/L AS SO4)	02/11/65-02/10/93	143	6.	6.771	22.	0.	13.766	3.71	3.	5.	8.	12.
00950p FLUORIDE, DISSOLVED (MG/L AS F)	02/11/65-02/10/93	141	0.1	0.142	0.9	0.	0.015	0.123	0.05	0.05	0.2	0.3
00955p SILICA, DISSOLVED (MG/L AS SI02)	09/06/67-02/10/93	137	12.	11.923	16.	5.9	7.132	2.671	7.9	9.75	14.	15.
01000 ARSENIC, DISSOLVED (UG/L AS AS)	10/15/70-08/13/91	37##	0.5	1.162	12.	0.	5.792	2.407	0.5	0.5	1.	1.
01001 ARSENIC, SUSPENDED (UG/L AS AS)	10/24/79-10/20/81	5	0.	1.2	6.	0.	7.2	2.683	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	10/22/68-05/12/82	24	0.5	1.229	10.	0.	5.347	2.312	0.	0.5	1.	4.
01005p BARIUM, DISSOLVED (UG/L AS BA)	10/24/79-02/10/93	41	11.	11.854	31.	1.	29.628	5.443	7.2	9.	13.	19.6
01006 BARIUM, SUSPENDED (UG/L AS BA)	05/21/80-04/29/81	2	85.	85.	90.	80.	50.	7.071	**	**	**	**
01007 BARIUM, TOTAL (UG/L AS BA)	05/06/74-05/12/82	19##	50.	47.895	100.	0.	570.322	23.881	10.	50.	50.	100.
01010 BERYLLIUM, DISSOLVED (UG/L AS BE)	10/24/79-08/13/91	35##	0.25	0.526	4.	0.	0.561	0.749	0.25	0.25	0.5	1.4
01025 CADMIUM, DISSOLVED (UG/L AS CD)	10/15/70-08/13/91	37##	0.5	0.622	3.	0.	0.2	0.447	0.5	0.5	0.5	1.
01026 CADMIUM, SUSPENDED (UG/L AS CD)	04/29/81-04/29/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	05/10/68-05/12/82	25##	0.	0.8	10.	0.	4.062	2.016	0.	0.	1.	2.
01030 CHROMIUM, DISSOLVED (UG/L AS CR)	10/14/71-08/13/91	35##	0.5	1.4	9.	0.	4.894	2.212	0.3	0.5	0.5	4.6
01031 CHROMIUM, SUSPEND (UG/L AS CR)	10/24/79-10/20/81	5	11.	13.4	22.	7.	36.3	6.025	**	**	**	**
01032 CHROMIUM, HEXAVALENT (UG/L AS CR)	10/15/70-10/15/70	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	05/10/68-05/12/82	26	10.	9.615	30.	0.	75.846	8.709	0.	0.	10.	23.
01035p COBALT, DISSOLVED (UG/L AS CO)	10/15/70-02/10/93	43##	1.5	1.744	11.	0.	2.397	1.548	1.5	1.5	1.5	1.5
01037 COBALT, TOTAL (UG/L AS CO)	05/10/68-05/14/72	7	0.	0.857	5.	0.	3.476	1.864	**	**	**	**
01040 COPPER, DISSOLVED (UG/L AS CU)	10/14/71-08/13/91	36	2.	2.889	10.	0.	4.416	2.101	0.5	2.	4.	5.
01041 COPPER, SUSPENDED (UG/L AS CU)	10/20/81-10/20/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	05/10/68-05/12/82	26	3.	4.654	20.	0.	22.635	4.758	0.	1.	7.75	10.3
01044 IRON, SUSPENDED (UG/L AS FE)	05/21/80-05/12/82	5	150.	146.	250.	80.	4330.	65.803	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	05/10/68-05/12/82	27	510.	529.259	1000.	200.	41107.123	202.749	278.	380.	650.	894.
01046p IRON, DISSOLVED (UG/L AS FE)	10/15/70-02/10/93	51	290.	328.824	800.	130.	27574.588	166.056	140.	220.	370.	566.
01049 LEAD, DISSOLVED (UG/L AS PB)	10/15/70-08/13/91	37##	2.5	2.784	13.	0.	8.591	2.931	0.4	0.5	2.75	6.8
01050 LEAD, SUSPENDED (UG/L AS PB)	05/21/80-10/20/81	2	1.	1.	2.	0.	2.	1.414	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)	05/10/68-05/12/82	25	4.	6.328	33.	0.	61.79	7.861	0.	0.1	10.	17.2
01054 MANGANESE, SUSPENDED (UG/L AS MN)	05/21/80-05/12/82	5	4.	4.4	10.	0.	14.8	3.847	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	05/10/68-05/12/82	26	20.	20.577	40.	0.	146.654	12.11	5.	10.	30.	40.
01056p MANGANESE, DISSOLVED (UG/L AS MN)	10/15/70-02/10/93	52	10.5	16.223	80.	4.	244.517	15.637	5.3	8.25	17.75	32.8
01060p MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/24/79-02/10/93	41##	5.	5.171	12.	5.	1.195	1.093	5.	5.	5.	5.
01065 NICKEL, DISSOLVED (UG/L AS NI)	10/14/71-02/10/93	36##	0.5	1.153	4.	0.	1.283	1.133	0.5	0.5	1.	3.
01067 NICKEL, TOTAL (UG/L AS NI)	05/10/68-05/14/72	7	0.	2.	10.	0.	14.667	3.83	**	**	**	**
01075p SILVER, DISSOLVED (UG/L AS AG)	10/24/79-02/10/93	41##	0.5	0.512	3.	0.	0.181	0.426	0.1	0.5	0.5	0.5
01076 SILVER, SUSPENDED (UG/L AS AG)	10/24/79-04/29/81	4	0.	0.	0.	0.	0.	0.	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	05/06/74-05/12/82	19##	0.	0.105	1.	0.	0.072	0.268	0.	0.	0.	0.5

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

Parameter Inventory for Station: ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01080p STRONTIUM, DISSOLVED (UG/L AS SR)	10/24/79-02/10/93	41	28.	30.683	59.	15.	156.022	12.491	16.2	22.	39.5	54.
01085p VANADIUM, DISSOLVED (UG/L AS V)	10/24/79-02/10/93	41##	3.	3.073	6.	3.	0.22	0.469	3.	3.	3.	3.
01090 ZINC, DISSOLVED (UG/L AS ZN)	10/15/70-08/13/91	37	9.	16.135	120.	1.5	480.092	21.911	1.5	4.	18.5	36.6
01091 ZINC, SUSPENDED (UG/L ZN)	04/29/81-10/20/81	2	10.	10.	20.	0.	200.	14.142	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	05/10/68-05/12/82	25	10.	21.28	200.	6.	1445.96	38.026	9.2	10.	20.	34.
01106 ALUMINUM, DISSOLVED (UG/L AS AL)	10/21/82-02/10/93	35	30.	37.143	100.	5.	669.538	25.875	5.	20.	50.	78.
01130p LITHIUM, DISSOLVED (UG/L AS LI)	10/24/79-02/10/93	41##	2.	2.854	18.	2.	7.678	2.771	2.	2.	2.	5.8
01145p SELENIUM, DISSOLVED (UG/L AS SE)	10/24/79-02/10/93	41##	0.5	0.451	0.5	0.	0.023	0.15	0.1	0.5	0.5	0.5
01146 SELENIUM, SUSPENDED (UG/L AS SE)	10/24/79-04/29/81	4	0.	0.	0.	0.	0.	0.	**	**	**	**
01147 SELENIUM, TOTAL (UG/L AS SE)	05/06/74-05/12/82	19##	0.5	0.579	4.	0.	0.73	0.854	0.	0.5	0.5	0.5
01515 ALPHA, DISSOLVED GROSS, AS URANIUM-NATURAL, PC/L	10/17/67-10/26/83	10##	0.325	0.44	1.3	0.15	0.113	0.336	0.155	0.238	0.525	1.23
01516 ALPHA, SUSPEND GROSS, AS URANIUM NATURAL, PC/L	10/17/67-10/22/80	9##	0.05	0.111	0.4	0.05	0.014	0.117	0.05	0.05	0.15	0.4
03515 BETA, DISSOLVED GROSS, AS CS-137, PC/L	10/17/67-10/21/92	35	1.8	2.423	8.1	0.8	2.572	1.604	0.9	1.3	3.1	4.66
03516 BETA, SUSPENDED GROSS, AS CS-137, PC/L	10/17/67-10/21/92	35##	0.3	0.553	4.	0.2	0.546	0.739	0.2	0.2	0.8	1.18
04126 ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	10/21/92-10/21/92	1##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
04127 ALPHA, SUSPENDED, DRY WEIGHT,SED (AS TH-230) PCI/L	10/21/92-10/21/92	1##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
09510 RADIUM 226, DISSOLVED, PLANCHET COUNT	10/11/72-10/11/72	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
09511 RADIUM 226, DISSOLVED, RADON METHOD	10/17/67-10/21/92	34	0.03	0.041	0.18	0.01	0.001	0.035	0.01	0.02	0.05	0.087
22703 URANIUM, NATURAL, DISSOLVED	10/17/67-10/21/92	12	0.02	0.036	0.2	0.005	0.003	0.052	0.01	0.02	0.029	0.149
31501p COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	02/03/70-09/17/80	42	121.	508.143	8800.	2.	1894216.077	1376.305	23.6	46.5	430.	1170.
31501p LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,	02/03/70-09/17/80	42	2.082	2.127	3.944	0.301	0.53	0.728	1.373	1.667	2.631	3.068
31501p GM COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,3		GEOMETRIC MEAN =		133.973								
31505 COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	05/02/70-05/02/70	1	230.	230.	230.	230.	0.	0.	**	**	**	**
31505 LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	05/02/70-05/02/70	1	2.362	2.362	2.362	2.362	0.	0.	**	**	**	**
31505 GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506		GEOMETRIC MEAN =		230.								
31507 COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	09/06/67-03/03/73	26	330.	687.962	4300.	15.	1039288.998	1019.455	27.9	75.	930.	2300.
31507 LOG COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 3150	09/06/67-03/03/73	26	2.498	2.401	3.633	1.176	0.465	0.682	1.424	1.875	2.968	3.362
31507 GM COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508		GEOMETRIC MEAN =		251.777								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/29/71-09/21/76	20	27.5	93.375	710.	0.5	26846.602	163.849	2.	9.25	122.5	230.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/29/71-09/21/76	20	1.438	1.422	2.851	-0.301	0.648	0.805	0.301	0.966	2.071	2.362
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		26.412								
31625p FECAL COLIFORM, MF,M-FC, 0.7 UM	10/20/76-02/10/93	71	14.	60.204	740.	0.5	15595.376	124.881	1.	3.	60.	136.8
31625p LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	10/20/76-02/10/93	71	1.146	1.141	2.869	-0.301	0.65	0.806	0.	0.477	1.778	2.136
31625p GM FECAL COLIFORM, MF,M-FC, 0.7 UM		GEOMETRIC MEAN =		13.828								
31673p FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/20/76-10/21/92	69	22.	92.609	2500.	0.5	93361.889	305.552	0.5	2.	81.5	230.
31673p LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/20/76-10/21/92	69	1.342	1.173	3.398	-0.301	0.84	0.916	-0.301	0.301	1.911	2.362
31673p GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR		GEOMETRIC MEAN =		14.885								
31679 FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	05/06/74-09/21/76	15	20.	43.767	140.	0.5	2504.352	50.044	0.5	1.	81.	140.
31679 LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	05/06/74-09/21/76	15	1.301	1.038	2.146	-0.301	0.944	0.972	-0.301	0.	1.908	2.146
31679 GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4		GEOMETRIC MEAN =		10.908								
39034 PERTHANE IN WHOLE WATER SAMPLE (UG/L)	10/25/78-10/20/81	4	0.	0.001	0.005	0.	0.	0.003	**	**	**	**
39086 ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/21/87-02/10/93	21	63.	58.095	96.	20.	507.39	22.525	23.4	38.5	74.5	91.2
39250 NAPTHALENES, POLYCHLORINATED (UG/L)	10/20/76-10/20/81	6	0.	0.008	0.05	0.	0.	0.02	**	**	**	**
39251 PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	10/22/80-10/20/81	2##	0.25	0.25	0.5	0.	0.125	0.354	**	**	**	**
39330 ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	16	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.002
39333 ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/22/68-10/20/81	12##	0.025	0.046	0.1	0.	0.002	0.05	0.	0.	0.1	0.1
39340 GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	10/17/67-10/20/81	16	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.002
39343 GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	10/22/68-10/20/81	12##	0.025	0.046	0.1	0.	0.002	0.05	0.	0.	0.1	0.1
39350 CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	10/15/70-10/20/81	11	0.	0.005	0.05	0.	0.	0.015	0.	0.	0.	0.04
39351 CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	10/15/70-10/20/81	10	0.	0.2	0.5	0.	0.067	0.258	0.	0.	0.5	0.5
39360 DDD IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	16	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.002
39363 DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/22/68-10/20/81	12##	0.025	0.046	0.1	0.	0.002	0.05	0.	0.	0.1	0.1
39365 DDE IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	16	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.002
39368 DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/22/68-10/20/81	12##	0.025	0.046	0.1	0.	0.002	0.05	0.	0.	0.1	0.1
39370 DDT IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	16	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.002
39373 DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/22/68-10/20/81	12##	0.025	0.046	0.1	0.	0.002	0.05	0.	0.	0.1	0.1
39380 DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	16	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.002
39383 DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	10/22/68-10/20/81	12##	0.025	0.046	0.1	0.	0.002	0.05	0.	0.	0.1	0.1
39388 ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	10/20/77-10/20/81	5	0.	0.001	0.005	0.	0.	0.002	**	**	**	**
39389 ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/22/80-10/20/81	2##	0.025	0.025	0.05	0.	0.001	0.035	**	**	**	**
39390 ENDRIN IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	16	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.002
39393 ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/22/68-10/20/81	12##	0.025	0.046	0.1	0.	0.002	0.05	0.	0.	0.1	0.1
39398 ETHION IN WHOLE WATER SAMPLE (UG/L)	10/20/77-10/20/81	5	0.	0.001	0.005	0.	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 time series plot

Parameter Inventory for Station: ISRO0005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39400 TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/17/74-10/20/81	8	0.	0.006	0.05	0.	0.	0.018	**	**	**	**
39403 TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	10/07/75-10/20/81	7	0.	0.071	0.5	0.	0.036	0.189	**	**	**	**
39410 HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	16	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.002
39413 HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	10/22/68-10/20/81	12##	0.025	0.046	0.1	0.	0.002	0.05	0.	0.	0.1	0.1
39420 HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/15/70-10/20/81	11	0.	0.	0.005	0.	0.	0.002	0.	0.	0.	0.004
39423 HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	10/15/70-10/20/81	10	0.	0.035	0.1	0.	0.002	0.047	0.	0.	0.1	0.1
39480 METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	10/24/79-10/20/81	3	0.	0.002	0.005	0.	0.	0.003	**	**	**	**
39481 METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	10/24/79-10/20/81	3	0.	0.017	0.05	0.	0.001	0.029	**	**	**	**
39516 PCBS IN WHOLE WATER SAMPLE (UG/L)	10/14/71-10/20/81	10	0.	0.035	0.25	0.	0.006	0.078	0.	0.	0.05	0.23
39519 PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/14/71-10/20/81	9	1.	2.222	7.	0.	8.444	2.906	0.	0.	5.5	7.
39530 MALATHION IN WHOLE WATER SAMPLE (UG/L)	10/15/70-10/20/81	9	0.	0.001	0.005	0.	0.	0.002	0.	0.	0.	0.005
39531 MALATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/15/70-10/11/72	3##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
39540 PARATHION IN WHOLE WATER SAMPLE (UG/L)	10/15/70-10/20/81	9	0.	0.001	0.005	0.	0.	0.002	0.	0.	0.	0.005
39541 PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/15/70-10/11/72	3##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
39570 DIAZINON IN WHOLE WATER SAMPLE (UG/L)	10/15/70-10/20/81	9	0.	0.001	0.005	0.	0.	0.002	0.	0.	0.	0.005
39571 DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/15/70-10/11/72	2##	0.055	0.055	0.1	0.01	0.004	0.064	**	**	**	**
39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	10/15/70-10/20/81	9	0.	0.001	0.005	0.	0.	0.002	0.	0.	0.	0.005
39601 METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	10/15/70-10/11/72	3##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
39730 2.4-D IN WHOLE WATER SAMPLE (UG/L)	05/10/68-10/20/81	14	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.003
39731 2.4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/07/75-10/20/76	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39733 2.4-D IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	10/17/67-10/11/72	8	0.	0.	0.	0.	0.	0.	**	**	**	**
39740 2.4,5-T IN WHOLE WATER SAMPLE (UG/L)	05/10/68-10/20/81	14	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.003
39741 2.4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/07/75-10/20/76	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39755 MIREX, TOTAL (UG/L)	10/20/77-10/20/81	5	0.	0.001	0.005	0.	0.	0.002	**	**	**	**
39758 MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	10/22/80-10/20/81	2##	0.025	0.025	0.05	0.	0.001	0.035	**	**	**	**
39760 SILVEX IN WHOLE WATER SAMPLE (UG/L)	05/10/68-10/20/81	14	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.003
39761 SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/07/75-10/20/76	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39786 TRITHION IN WHOLE WATER SAMPLE (UG/L)	10/20/77-10/20/81	5	0.	0.001	0.005	0.	0.	0.002	**	**	**	**
39790 METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	10/20/77-10/20/81	5	0.	0.001	0.005	0.	0.	0.002	**	**	**	**
70300p RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/11/65-02/10/93	145	109.	106.331	169.	48.	720.931	26.85	64.6	89.	126.	142.4
70301p SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/06/67-02/03/87	98	90.	87.52	147.	36.	613.531	24.77	51.8	72.75	104.25	120.3
70302p SOLIDS, DISSOLVED-TONS PER DAY	02/11/65-02/16/83	105	1.41	3.195	26.3	0.2	18.04	4.247	0.418	0.715	4.03	9.624
70303p SOLIDS, DISSOLVED-TONS PER ACRE-FT	02/11/65-02/16/83	106	0.16	0.151	0.23	0.07	0.001	0.036	0.1	0.13	0.173	0.2
70331p SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	05/04/76-06/16/92	47	87.	81.872	100.	54.	261.722	16.178	60.8	67.	100.	100.
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/25/90-10/21/92	9##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
71835 OXYGEN CONSUMED, FILTERED MG/L	09/06/67-09/27/67	2	1.7	1.7	2.2	1.2	0.5	0.707	**	**	**	**
71845 NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	02/03/81-02/03/81	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
71846 NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	02/03/81-02/03/87	18	0.04	0.035	0.06	0.01	0.	0.017	0.01	0.025	0.05	0.06
71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	02/11/65-06/06/73	52	0.6	0.681	1.5	0.	0.113	0.336	0.4	0.5	0.8	1.2
71883 MANGANESE, TOTAL ELEMENTAL (UG/L AS MN)	09/06/67-10/07/73	16	25.	33.625	200.	0.	2471.583	49.715	0.	0.	47.5	102.
71885 IRON (UG/L AS FE)	09/06/67-10/07/73	15	290.	347.333	690.	10.	51220.952	226.32	40.	200.	600.	672.
71886p PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/06/67-10/29/86	72	0.03	0.069	0.52	0.	0.006	0.079	0.013	0.03	0.07	0.17
71887 NITROGEN, TOTAL, AS NO3 - MG/L	02/03/81-10/20/81	6	1.95	2.	2.8	1.3	0.396	0.629	**	**	**	**
71890 MERCURY, DISSOLVED (UG/L AS HG)	07/11/70-08/13/91	39##	0.05	0.124	1.2	0.	0.049	0.221	0.05	0.05	0.05	0.3
71895 MERCURY, SUSPENDED (UG/L AS HG)	10/24/79-10/20/81	3	0.1	0.1	0.2	0.	0.01	0.1	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	10/15/70-05/12/82	21##	0.25	0.274	1.2	0.05	0.049	0.222	0.1	0.25	0.25	0.3
75986 ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	04/26/89-10/21/92	8	0.4	0.433	0.7	0.26	0.024	0.156	**	**	**	**
75987 ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	04/26/89-10/21/92	8##	0.3	0.539	2.4	0.2	0.567	0.753	**	**	**	**
75988 BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	04/26/89-10/21/92	8	0.47	0.455	0.5	0.4	0.002	0.047	**	**	**	**
75989 BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	04/26/89-10/21/92	8	0.585	0.576	0.7	0.5	0.004	0.065	**	**	**	**
75990 URANIUM,NATURAL,1 SIGMA PRC EST,DISS,WATER UG/L	05/22/90-10/21/92	6##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
76001 RADIUM 226,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	05/22/90-10/21/92	6##	0.008	0.006	0.01	0.	0.	0.005	**	**	**	**
76004 ALPHA GROSS,SUSP,1 SIGMA PRC EST AS TH230,WTR PC/L	04/26/89-10/21/92	8	0.25	0.216	0.33	0.	0.014	0.116	**	**	**	**
76005 BETA GROSS,SUSP,1 SIGMA PRC EST AS SR90/Y90 PC/L	04/26/89-10/21/92	8	0.5	0.499	0.6	0.3	0.009	0.093	**	**	**	**
80020 URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD	05/10/68-05/06/87	24	0.05	0.064	0.26	0.005	0.003	0.059	0.008	0.03	0.074	0.16
80030 ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	10/17/67-10/21/92	35##	0.65	0.726	2.5	0.2	0.38	0.616	0.2	0.2	0.85	1.9
80040 ALPHA,SUSPENDED GROSS, AS URANIUM-NATURAL, UG/L	10/17/67-10/21/92	35##	0.2	0.253	1.1	0.2	0.032	0.18	0.2	0.2	0.2	0.3
80050 BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	10/17/67-10/21/92	35	1.5	1.98	6.4	0.7	1.585	1.259	0.8	1.1	2.6	3.78
80060 BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L	10/17/67-10/21/92	35##	0.2	0.403	1.9	0.2	0.141	0.376	0.2	0.2	0.35	0.94
80154p SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	08/06/62-06/16/92	102	4.	6.755	50.	0.	74.959	8.658	0.3	2.	9.	16.8
80155p SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	08/06/62-09/22/82	62	0.035	0.834	16.	0.	6.274	2.505	0.	0.01	0.363	2.11
80164 BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	09/22/65-10/14/71	8	1.	2.125	6.	0.	5.839	2.416	**	**	**	**
80165 BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	09/22/65-10/14/71	8	3.	5.375	16.	1.	32.839	5.731	**	**	**	**

** - 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

Parameter Inventory for Station: ISR00005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	09/22/65-10/14/71	8	7.	13.25	36.	3.	150.786	12.279	**	**	**	**
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	09/22/65-10/14/71	8	17.	28.375	66.	11.	447.125	21.145	**	**	**	**
80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	09/22/65-10/14/71	8	24.5	37.25	81.	19.	616.214	24.824	**	**	**	**
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	09/22/65-10/14/71	8	32.5	45.25	90.	23.	680.786	26.092	**	**	**	**
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	09/22/65-10/14/71	8	43.5	54.	94.	28.	694.571	26.355	**	**	**	**
80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	09/22/65-10/14/71	8	56.	63.25	97.	32.	619.643	24.893	**	**	**	**
80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	09/22/65-10/14/71	8	76.	76.625	99.	36.	484.268	22.006	**	**	**	**
80173	BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM	09/22/65-10/14/71	7	100.	88.857	100.	64.	234.476	15.313	**	**	**	**
80174	BED MATERIAL SIEVE DIAMETER,% FINER THAN 64.0MM	07/19/67-10/15/70	3	100.	100.	100.	100.	0.	0.	**	**	**	**
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	10/22/80-10/20/81	2##	0.025	0.025	0.05	0.	0.001	0.035	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	02/03/81-07/15/81	4	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	10/22/80-10/20/81	2##	0.003	0.003	0.005	0.	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: ISR00005

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	40	0	0.00	10	0	0.00	1	0	0.00	16	0	0.00	13	0	0.00
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	136	0	0.00	19	0	0.00	8	0	0.00	61	0	0.00	48	0	0.00
00400	PH	Other-Hi Lim.	9.	181	0	0.00	26	0	0.00	8	0	0.00	81	0	0.00	66	0	0.00
		Other-Lo Lim.	6.5	181	1	0.01	26	0	0.00	8	0	0.00	81	1	0.01	66	0	0.00
00403	PH, LAB	Other-Hi Lim.	9.	53	0	0.00	11	0	0.00	1	0	0.00	22	0	0.00	19	0	0.00
		Other-Lo Lim.	6.5	53	0	0.00	11	0	0.00	1	0	0.00	22	0	0.00	19	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	31	0	0.00	7	0	0.00	1	0	0.00	11	0	0.00	12	0	0.00
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	9	0	0.00	2	0	0.00				3	0	0.00	4	0	0.00
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	52	0	0.00	8	0	0.00	1	0	0.00	24	0	0.00	19	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.	60	0	0.00	10	0	0.00	6	0	0.00	22	0	0.00	22	0	0.00
00631	NITRATE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	60	0	0.00	12	0	0.00	2	0	0.00	25	0	0.00	21	0	0.00
00720	CYANIDE, TOTAL	Fresh Acute	0.022	18	0	0.00	1	0	0.00				8	0	0.00	9	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	146	0	0.00	25	0	0.00	8	0	0.00	60	0	0.00	53	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	143	0	0.00	25	0	0.00	8	0	0.00	58	0	0.00	52	0	0.00
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	37	0	0.00	5	0	0.00	1	0	0.00	14	0	0.00	17	0	0.00
		Drinking Water	50.	37	0	0.00	5	0	0.00	1	0	0.00	14	0	0.00	17	0	0.00
01001	ARSENIC, SUSPENDED	Fresh Acute	360.	5	0	0.00							2	0	0.00	3	0	0.00
		Drinking Water	50.	5	0	0.00							2	0	0.00	3	0	0.00
01002	ARSENIC, TOTAL	Fresh Acute	360.	24	0	0.00	1	0	0.00				12	0	0.00	11	0	0.00
		Drinking Water	50.	24	0	0.00	1	0	0.00				12	0	0.00	11	0	0.00
01005	BARIUM, DISSOLVED	Drinking Water	2000.	41	0	0.00	7	0	0.00	1	0	0.00	16	0	0.00	17	0	0.00
01006	BARIUM, SUSPENDED	Drinking Water	2000.	2	0	0.00							2	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	19	0	0.00	1	0	0.00				9	0	0.00	9	0	0.00
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	35	0	0.00	5	0	0.00	1	0	0.00	14	0	0.00	15	0	0.00
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	37	0	0.00	5	0	0.00	1	0	0.00	14	0	0.00	17	0	0.00
		Drinking Water	5.	37	0	0.00	5	0	0.00	1	0	0.00	14	0	0.00	17	0	0.00
01026	CADMIUM, SUSPENDED	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	25	1	0.04	1	0	0.00				12	0	0.00	12	1	0.08
		Drinking Water	5.	25	1	0.04	1	0	0.00				12	0	0.00	12	1	0.08
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	35	0	0.00	5	0	0.00	1	0	0.00	14	0	0.00	15	0	0.00
01031	CHROMIUM, SUSPENDED	Drinking Water	100.	5	0	0.00							2	0	0.00	3	0	0.00
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	1	0	0.00										1	0	0.00
		Drinking Water	100.	1	0	0.00										1	0	0.00
01034	CHROMIUM, TOTAL	Drinking Water	100.	26	0	0.00	1	0	0.00				13	0	0.00	12	0	0.00
01040	COPPER, DISSOLVED	Fresh Acute	18.	36	0	0.00	5	0	0.00	1	0	0.00	14	0	0.00	16	0	0.00
		Drinking Water	1300.	36	0	0.00	5	0	0.00	1	0	0.00	14	0	0.00	16	0	0.00
01041	COPPER, SUSPENDED	Fresh Acute	18.	1	0	0.00										1	0	0.00
		Drinking Water	1300.	1	0	0.00										1	0	0.00
01042	COPPER, TOTAL	Fresh Acute	18.	26	1	0.04	1	0	0.00				13	1	0.08	12	0	0.00
		Drinking Water	1300.	26	0	0.00	1	0	0.00				13	0	0.00	12	0	0.00

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

EPA Water Quality Criteria Analysis for Station: ISR00005

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
01049 LEAD, DISSOLVED	Fresh Acute	82.	37	0	0.00	5	0	0.00	1	0	0.00	14	0	0.00	17	0	0.00
	Drinking Water	5.	34&	4	0.12	5	0	0.00	1	0	0.00	12	2	0.17	16	2	0.13
01050 LEAD, SUSPENDED	Fresh Acute	82.	2	0	0.00							1	0	0.00	1	0	0.00
	Drinking Water	5.	2	0	0.00							1	0	0.00	1	0	0.00
01051 LEAD, TOTAL	Fresh Acute	82.	25	0	0.00	1	0	0.00				13	0	0.00	11	0	0.00
	Drinking Water	5.	25	11	0.44	1	1	1.00				13	5	0.38	11	5	0.45
01065 NICKEL, DISSOLVED	Fresh Acute	1400.	36	0	0.00	7	0	0.00	1	0	0.00	13	0	0.00	15	0	0.00
	Drinking Water	100.	36	0	0.00	7	0	0.00	1	0	0.00	13	0	0.00	15	0	0.00
01067 NICKEL, TOTAL	Fresh Acute	1400.	7	0	0.00							4	0	0.00	3	0	0.00
	Drinking Water	100.	7	0	0.00							4	0	0.00	3	0	0.00
01075 SILVER, DISSOLVED	Fresh Acute	4.1	41	0	0.00	7	0	0.00	1	0	0.00	16	0	0.00	17	0	0.00
	Drinking Water	50.	41	0	0.00	7	0	0.00	1	0	0.00	16	0	0.00	17	0	0.00
01076 SILVER, SUSPENDED	Fresh Acute	4.1	4	0	0.00							2	0	0.00	2	0	0.00
	Drinking Water	50.	4	0	0.00							2	0	0.00	2	0	0.00
01077 SILVER, TOTAL	Fresh Acute	4.1	19	0	0.00	1	0	0.00				9	0	0.00	9	0	0.00
	Drinking Water	50.	19	0	0.00	1	0	0.00				9	0	0.00	9	0	0.00
01090 ZINC, DISSOLVED	Fresh Acute	120.	37	1	0.03	5	0	0.00	1	0	0.00	14	0	0.00	17	1	0.06
01091 ZINC, SUSPENDED	Fresh Acute	120.	2	0	0.00							1	0	0.00	1	0	0.00
01092 ZINC, TOTAL	Fresh Acute	120.	25	1	0.04	1	0	0.00				13	1	0.08	11	0	0.00
01145 SELENIUM, DISSOLVED	Fresh Acute	20.	41	0	0.00	7	0	0.00	1	0	0.00	16	0	0.00	17	0	0.00
	Drinking Water	50.	41	0	0.00	7	0	0.00	1	0	0.00	16	0	0.00	17	0	0.00
01146 SELENIUM, SUSPENDED	Fresh Acute	20.	4	0	0.00							2	0	0.00	2	0	0.00
	Drinking Water	50.	4	0	0.00							2	0	0.00	2	0	0.00
01147 SELENIUM, TOTAL	Fresh Acute	20.	19	0	0.00	1	0	0.00				9	0	0.00	9	0	0.00
	Drinking Water	50.	19	0	0.00	1	0	0.00				9	0	0.00	9	0	0.00
22703 URANIUM, NATURAL DISSOLVED	Drinking Water	20.	12	0	0.00							5	0	0.00	7	0	0.00
31501 COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	42	6	0.14	6	2	0.33	6	0	0.00	17	2	0.12	13	2	0.15
31505 COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	1	0	0.00							1	0	0.00			
31507 COLIFORM, TOTAL, MPN	Other-Hi Lim.	1000.	26	4	0.15	3	1	0.33	1	0	0.00	12	2	0.17	10	1	0.10
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	20	4	0.20	3	0	0.00	2	0	0.00	8	0	0.00	7	4	0.57
31625 FECAL COLIFORM, MF	Other-Hi Lim.	200.	71	6	0.08	12	0	0.00	5	0	0.00	29	1	0.03	25	5	0.20
39330 ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	16	0	0.00							2	0	0.00	14	0	0.00
39340 GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	16	0	0.00							2	0	0.00	14	0	0.00
	Drinking Water	0.2	16	0	0.00							2	0	0.00	14	0	0.00
39350 CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	11	0	0.00										11	0	0.00
	Drinking Water	2.	11	0	0.00										11	0	0.00
39360 DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	16	0	0.00							2	0	0.00	14	0	0.00
39365 DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	16	0	0.00							2	0	0.00	14	0	0.00
39370 DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	16	0	0.00							2	0	0.00	14	0	0.00
39380 DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	16	0	0.00							2	0	0.00	14	0	0.00
39388 ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute	0.22	5	0	0.00										5	0	0.00
39390 ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	16	0	0.00							2	0	0.00	14	0	0.00
	Drinking Water	0.2	16	0	0.00							2	0	0.00	14	0	0.00
39400 TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	8	0	0.00										8	0	0.00
	Drinking Water	3.	8	0	0.00										8	0	0.00
39410 HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	16	0	0.00							2	0	0.00	14	0	0.00
	Drinking Water	0.4	16	0	0.00							2	0	0.00	14	0	0.00
39420 HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	11	0	0.00										11	0	0.00
	Drinking Water	0.2	11	0	0.00										11	0	0.00
39480 METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	3	0	0.00										3	0	0.00
39540 PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	9	0	0.00										9	0	0.00
39730 2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	14	0	0.00							2	0	0.00	12	0	0.00
39733 2,4-D IN SUSP. FRAC. OF WATER SAMPLE	Drinking Water	70.	8	0	0.00							2	0	0.00	6	0	0.00
39760 SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	14	0	0.00							2	0	0.00	12	0	0.00
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	52	0	0.00	8	0	0.00	1	0	0.00	24	0	0.00	19	0	0.00
71890 MERCURY, DISSOLVED	Fresh Acute	2.4	39	0	0.00	5	0	0.00	1	0	0.00	16	0	0.00	17	0	0.00
	Drinking Water	2.	39	0	0.00	5	0	0.00	1	0	0.00	16	0	0.00	17	0	0.00
71895 MERCURY, SUSPENDED	Fresh Acute	2.4	3	0	0.00							1	0	0.00	2	0	0.00
	Drinking Water	2.	3	0	0.00							1	0	0.00	2	0	0.00

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

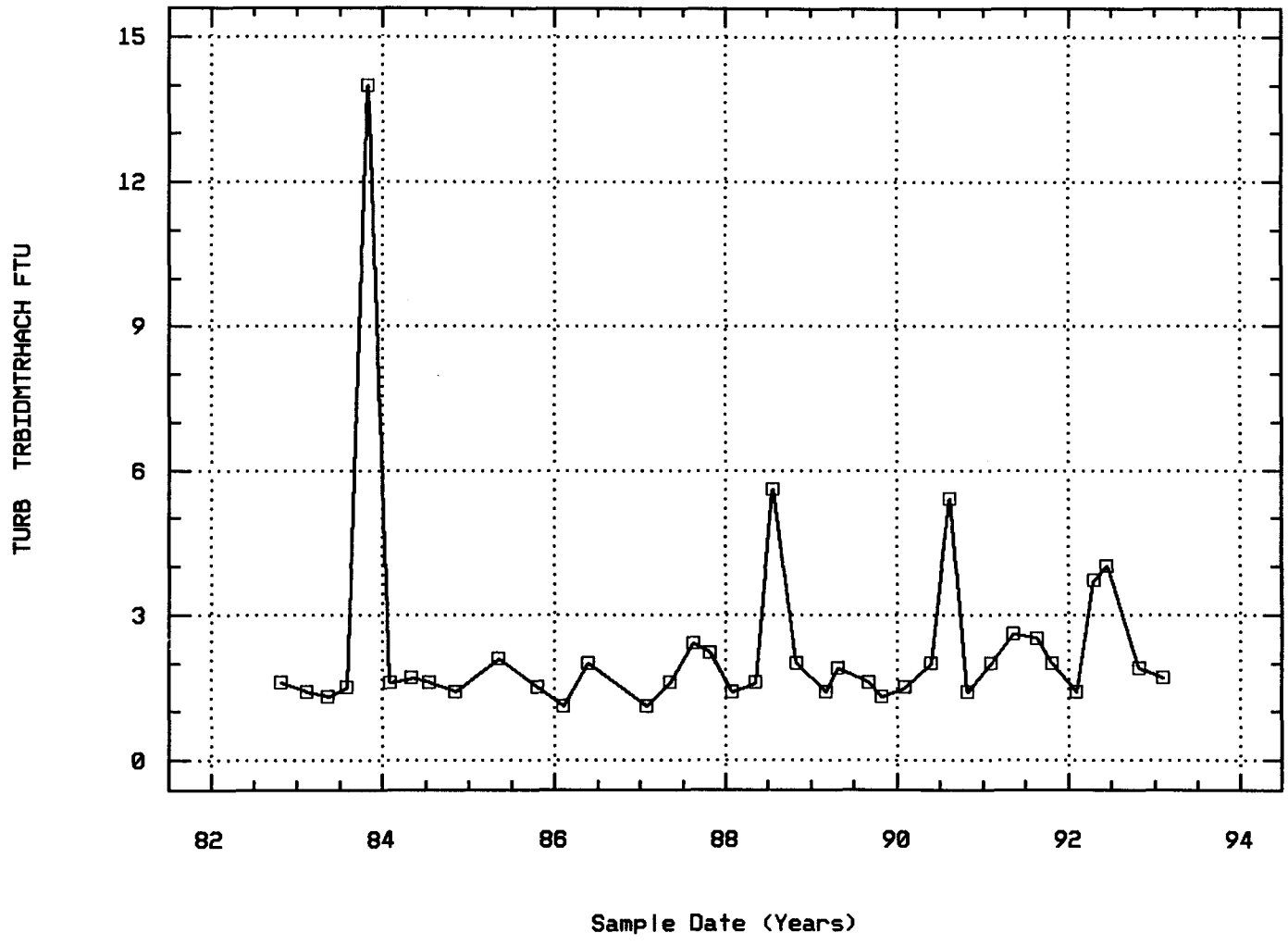
EPA Water Quality Criteria Analysis for Station: ISR00005

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
71900 MERCURY, TOTAL	Fresh Acute	2.4	21	0	0.00	1	0	0.00				10	0	0.00	10	0	0.00
	Drinking Water	2.	21	0	0.00	1	0	0.00				10	0	0.00	10	0	0.00
80020 URANIUM, DISS. BY EXTRACTION FLUOROMETRI	Drinking Water	20.	24	0	0.00	1	0	0.00				5	0	0.00	18	0	0.00

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

Station: ISRO0005 Parameter Code: 00076

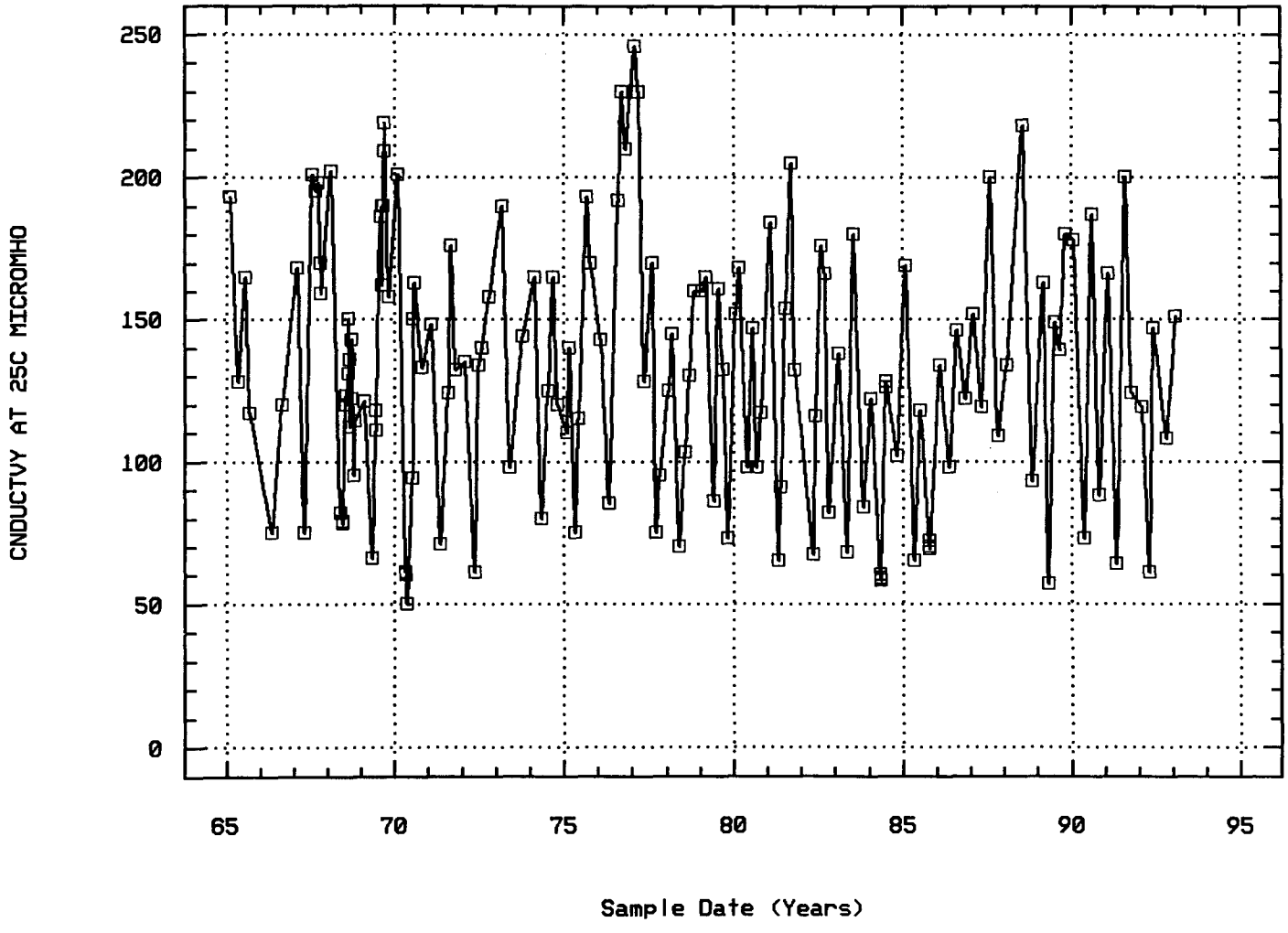
TURBIDITY,HACH TURBIDIMETER (FORMAZIN T



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00095

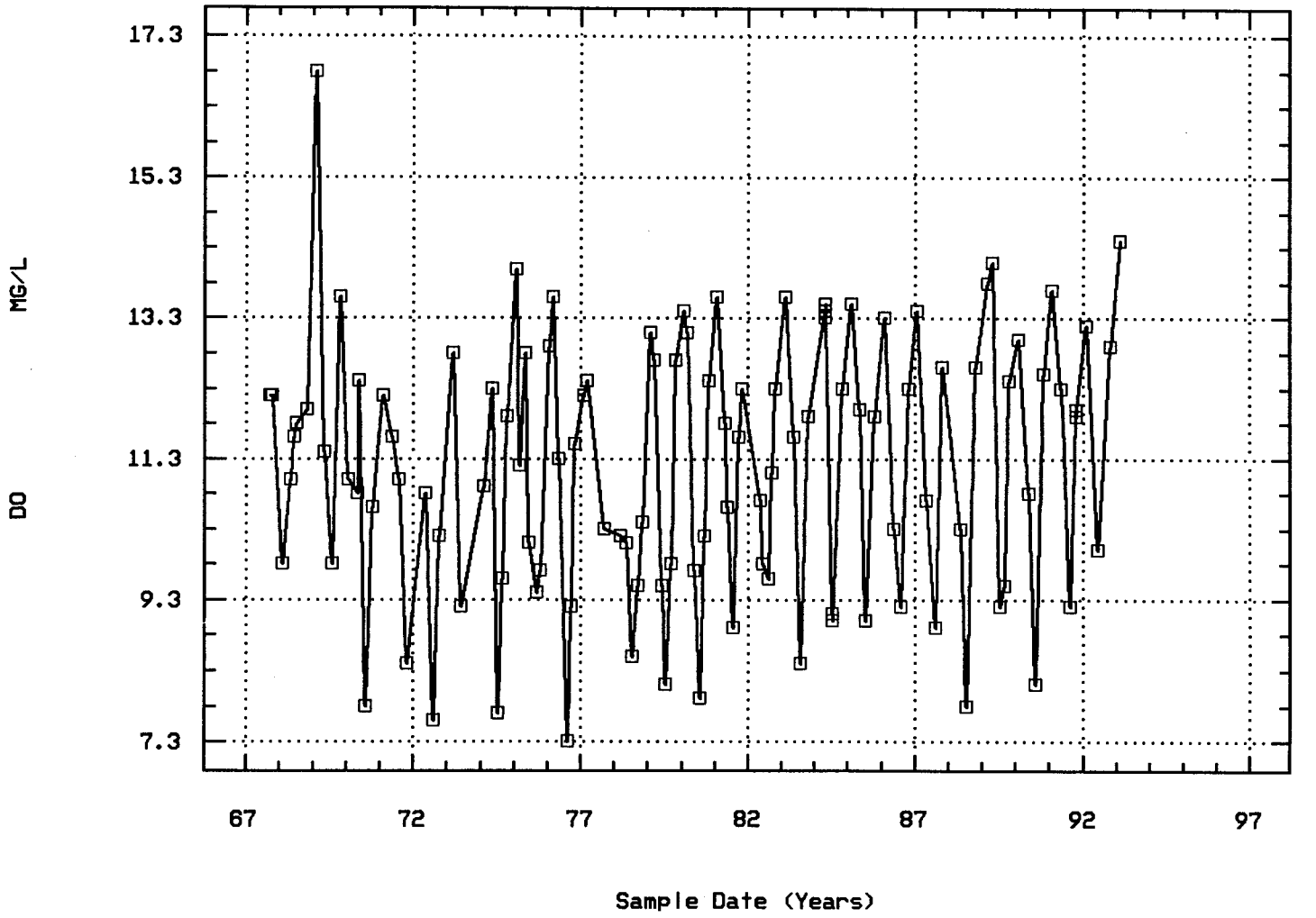
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00300

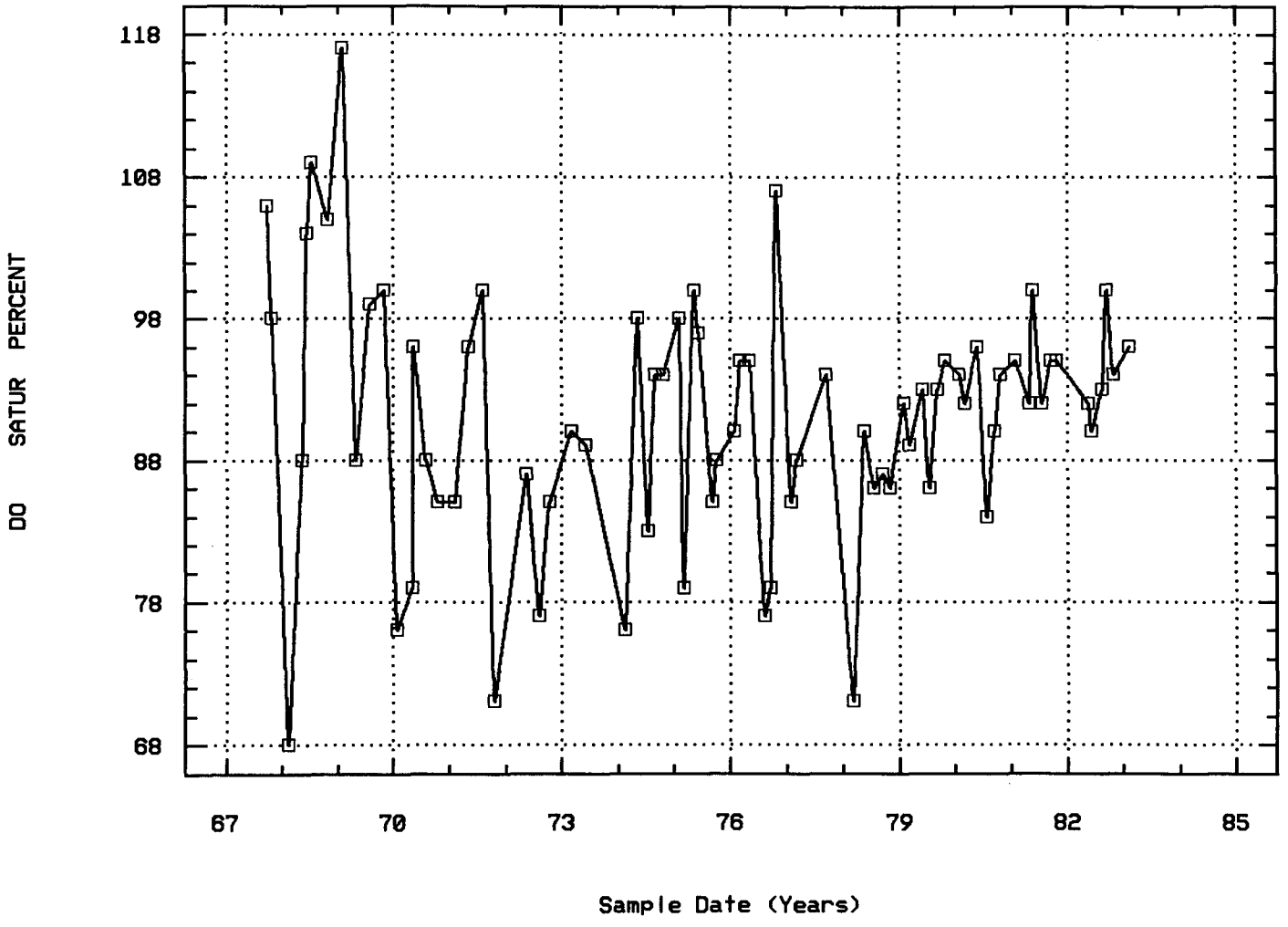
OXYGEN, DISSOLVED



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00301

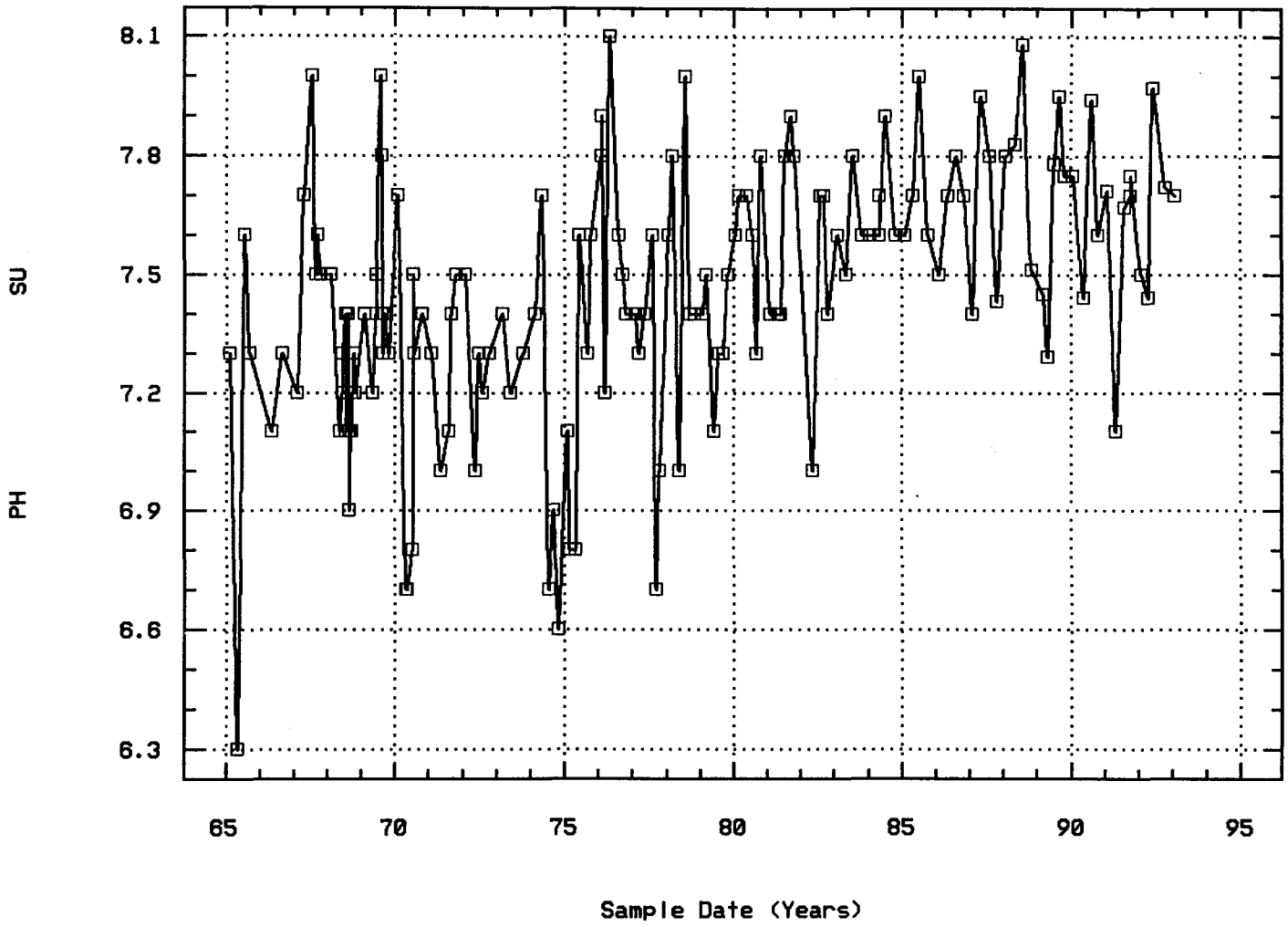
OXYGEN, DISSOLVED, PERCENT OF SATURATIO



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00400

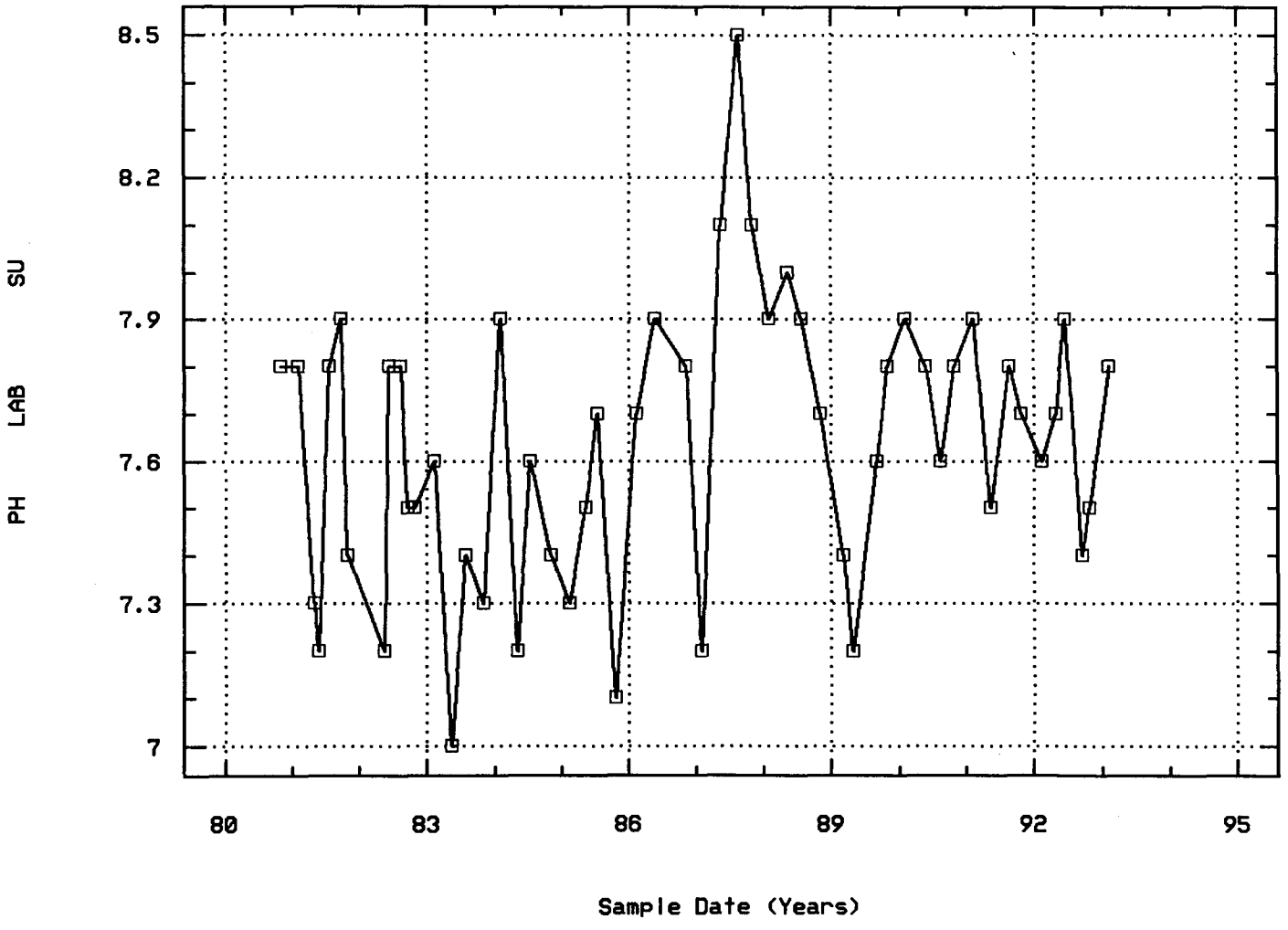
PH (STANDARD UNITS)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 00403

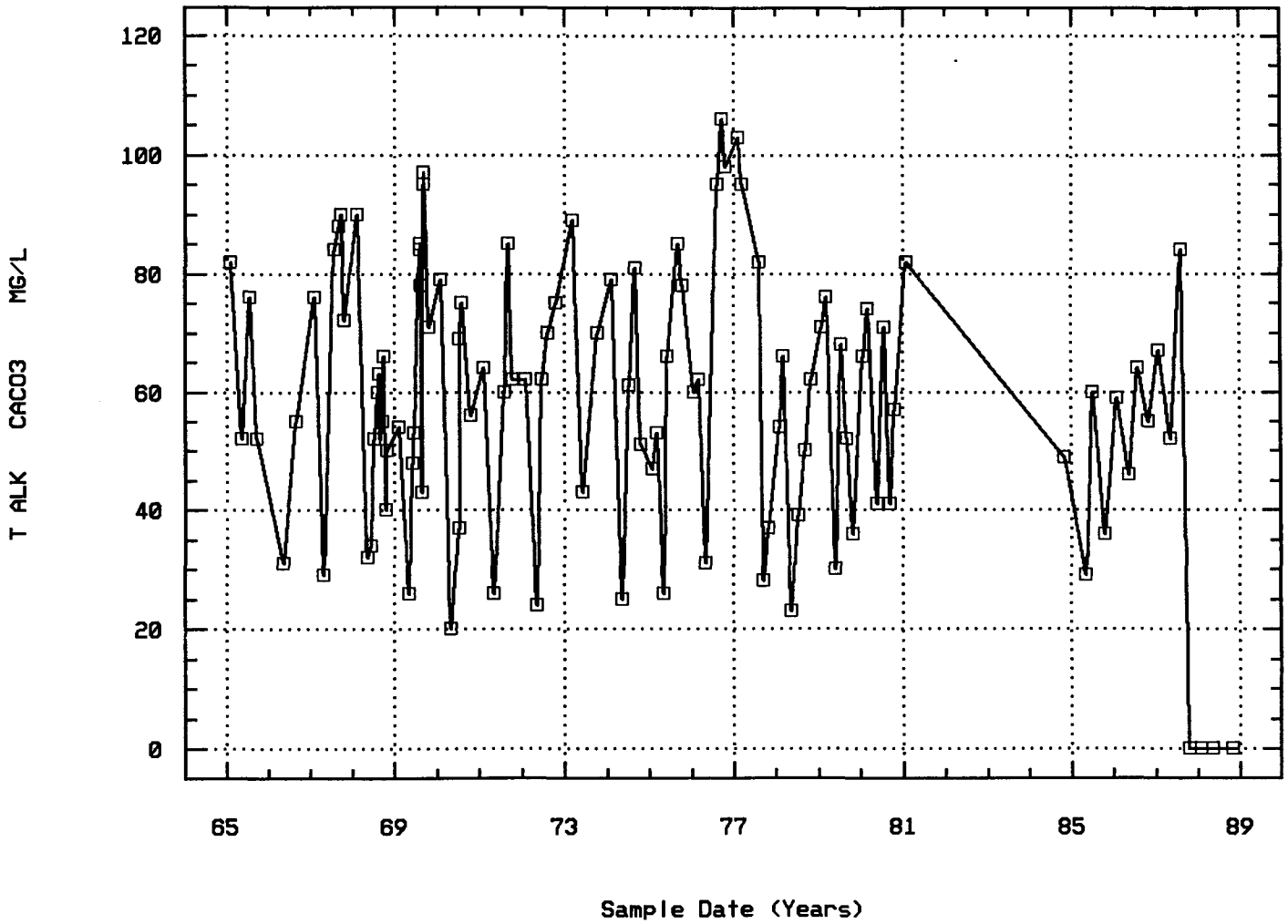
PH, LAB, STANDARD UNITS



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00410

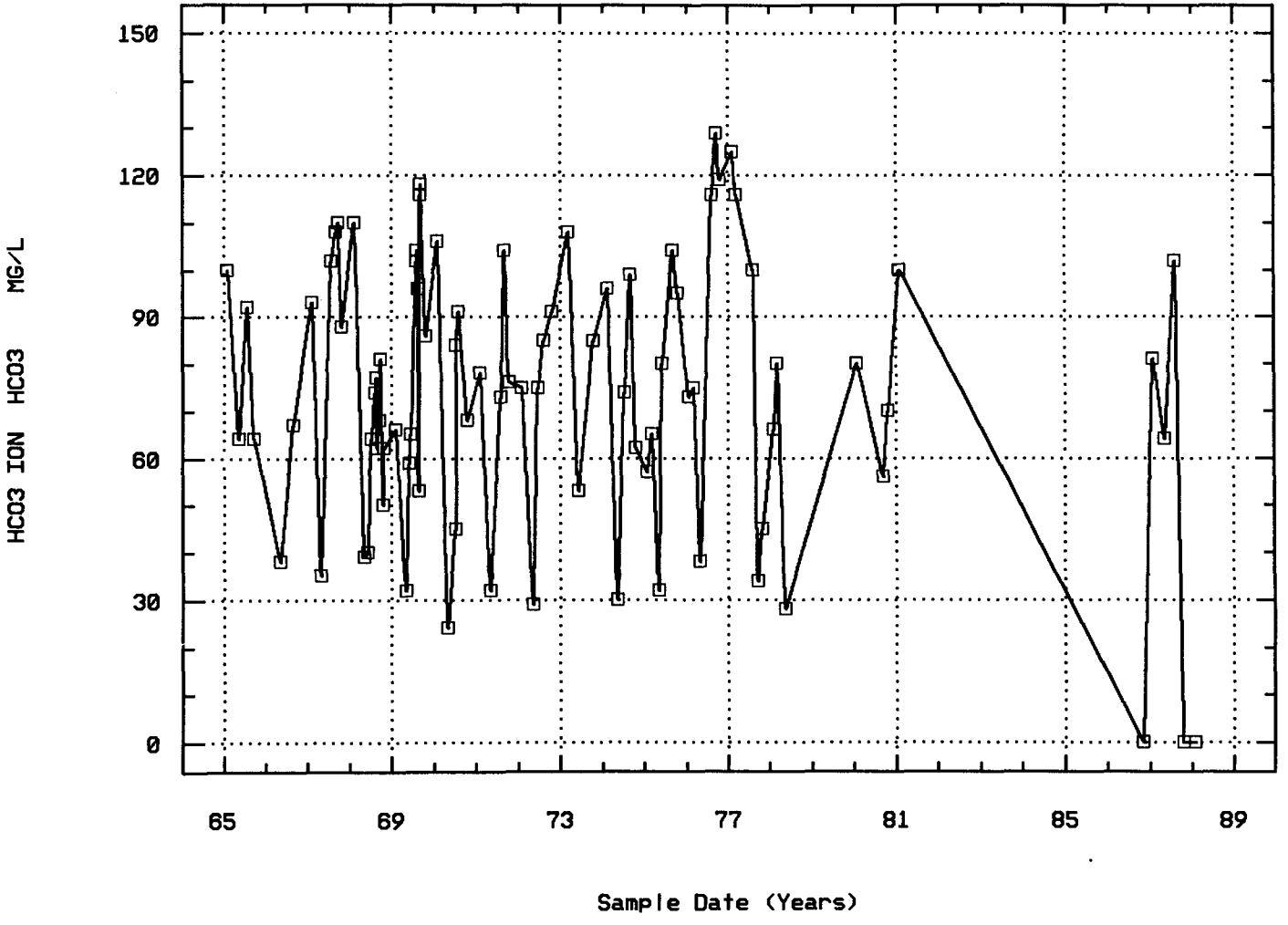
ALKALINITY, TOTAL (MG/L AS CACO3)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00440

BICARBONATE ION (MG/L AS HCO3)

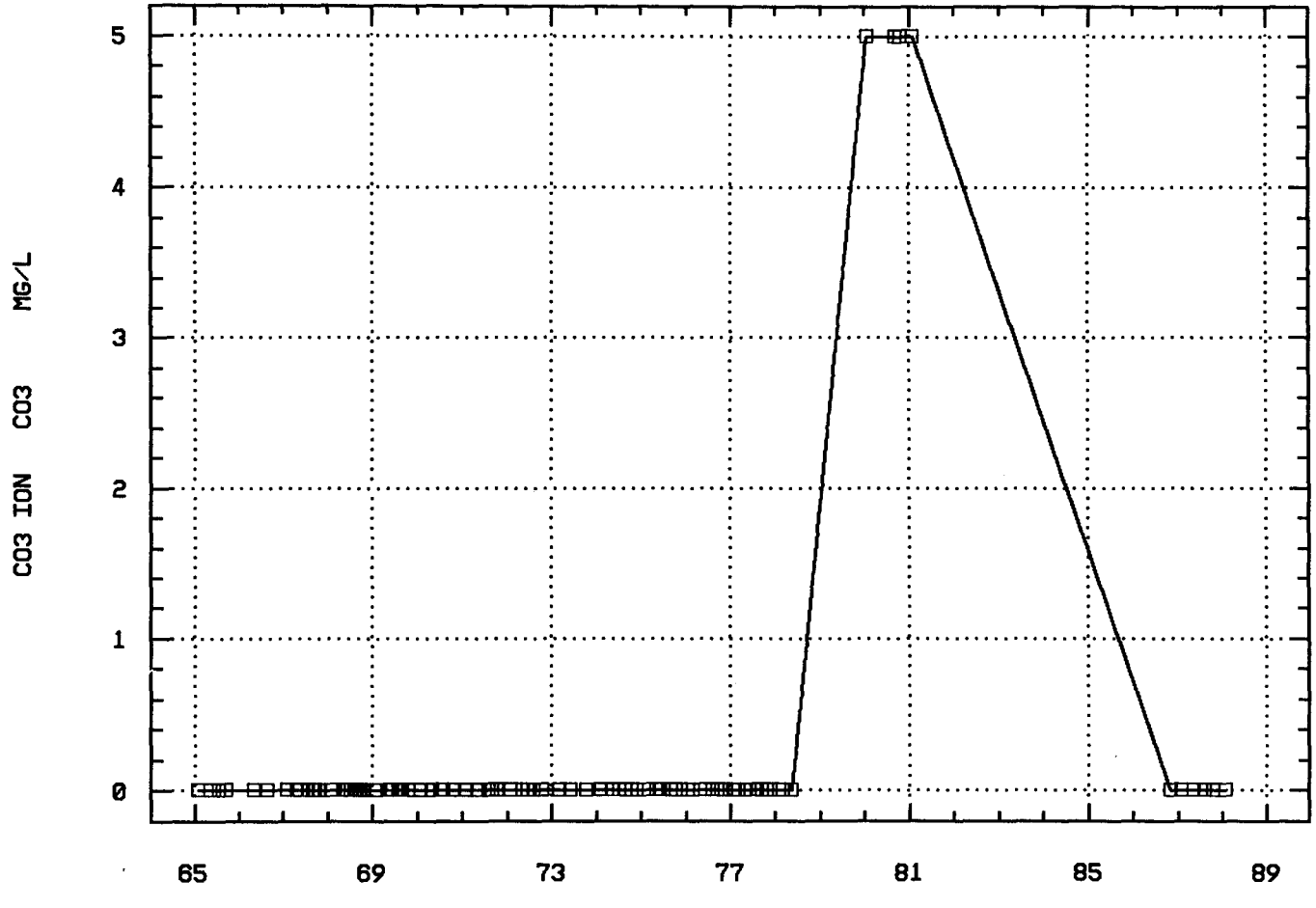


WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00445

CARBONATE ION (MG/L AS CO3)

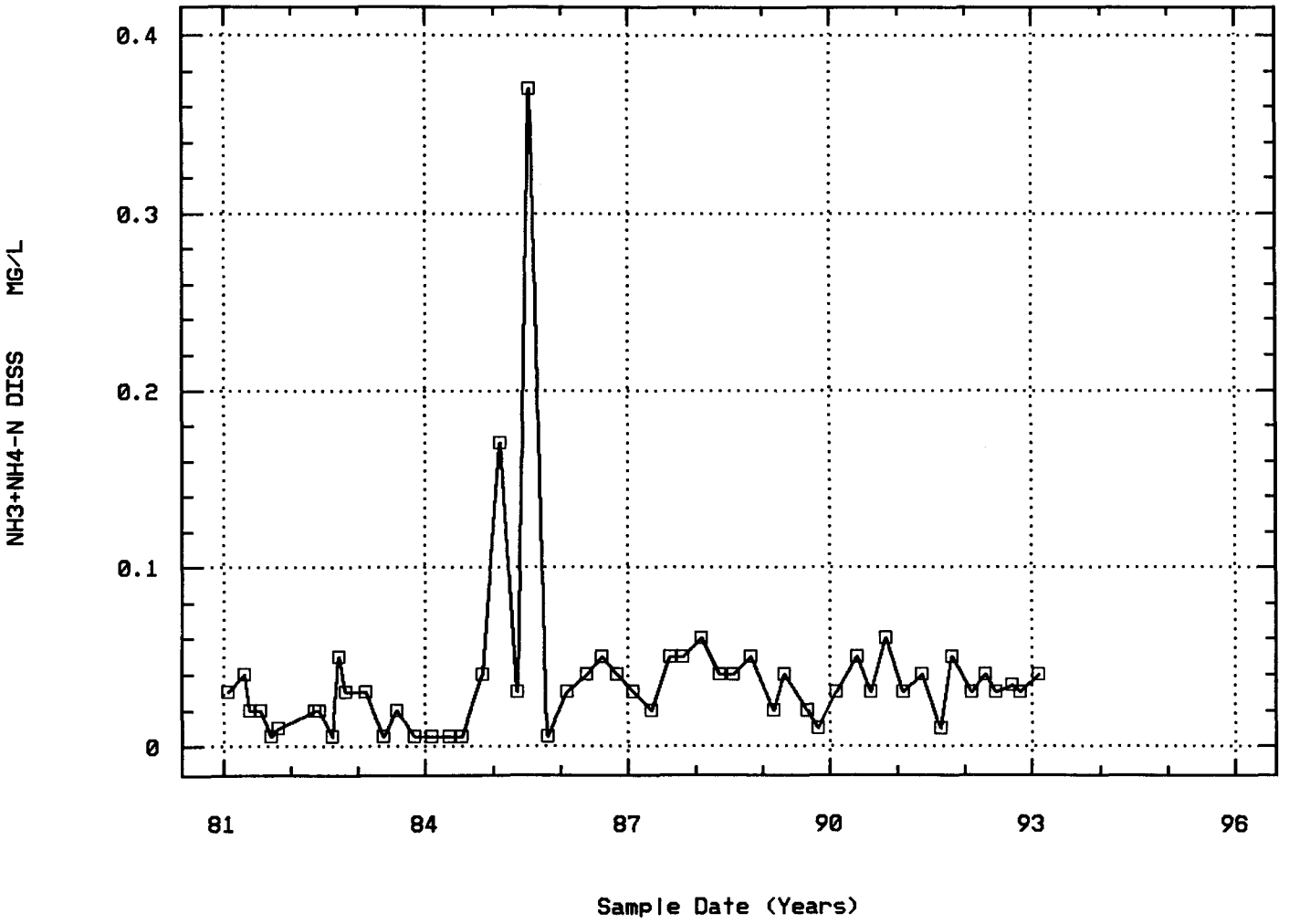
(X 0.000001)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00608

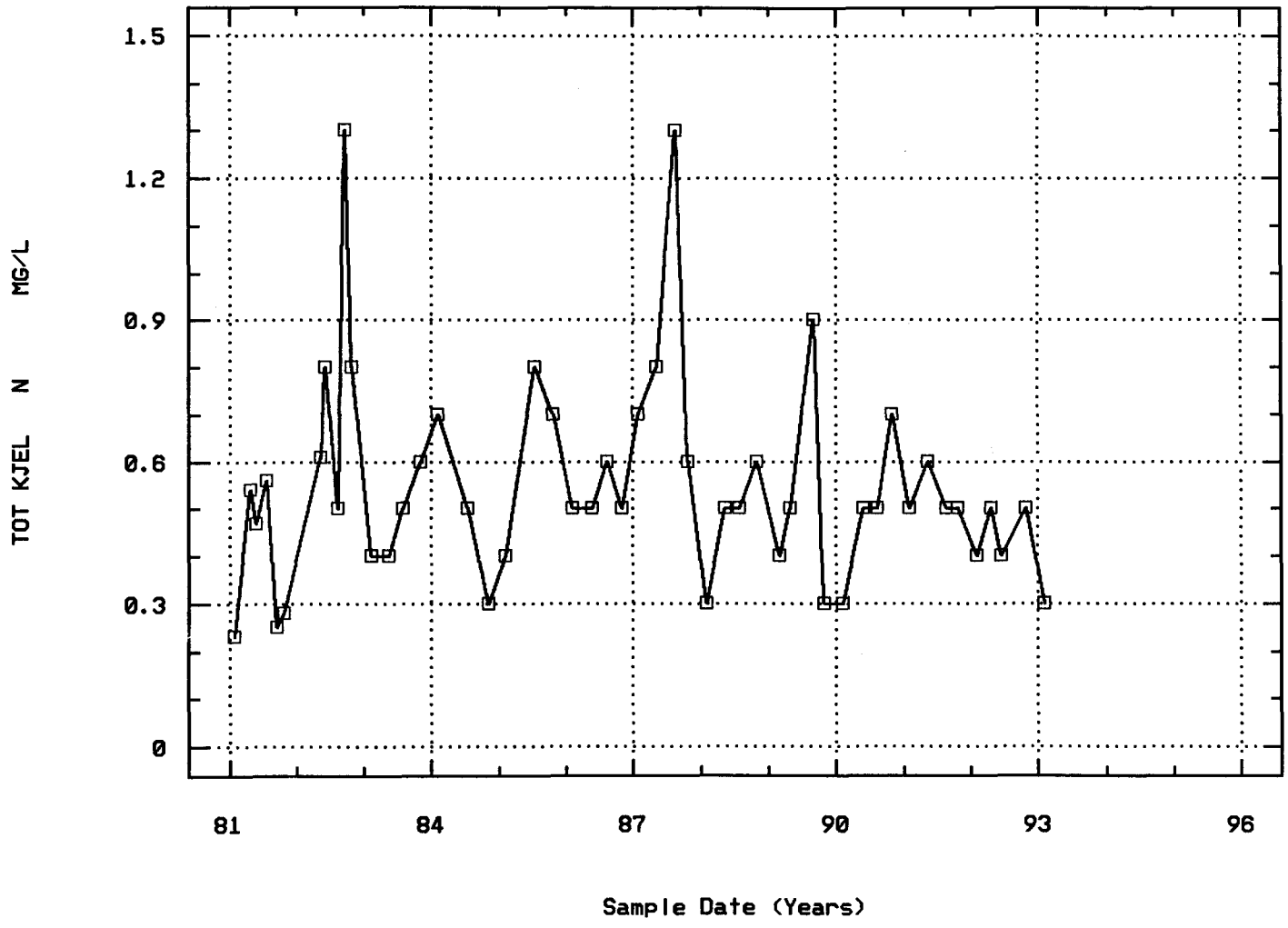
NITROGEN, AMMONIA, DISSOLVED (MG/L AS N



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00625

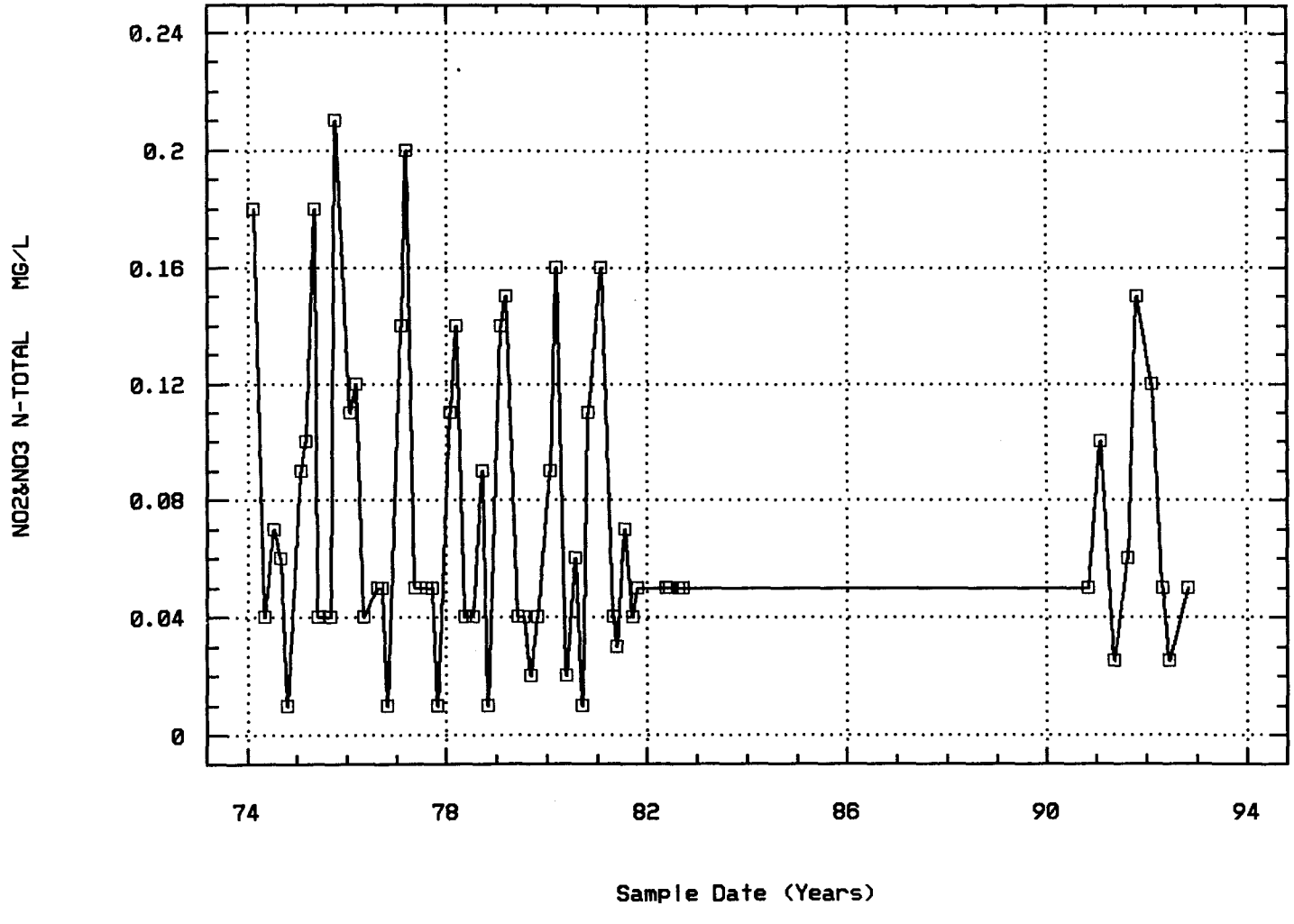
NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 00630

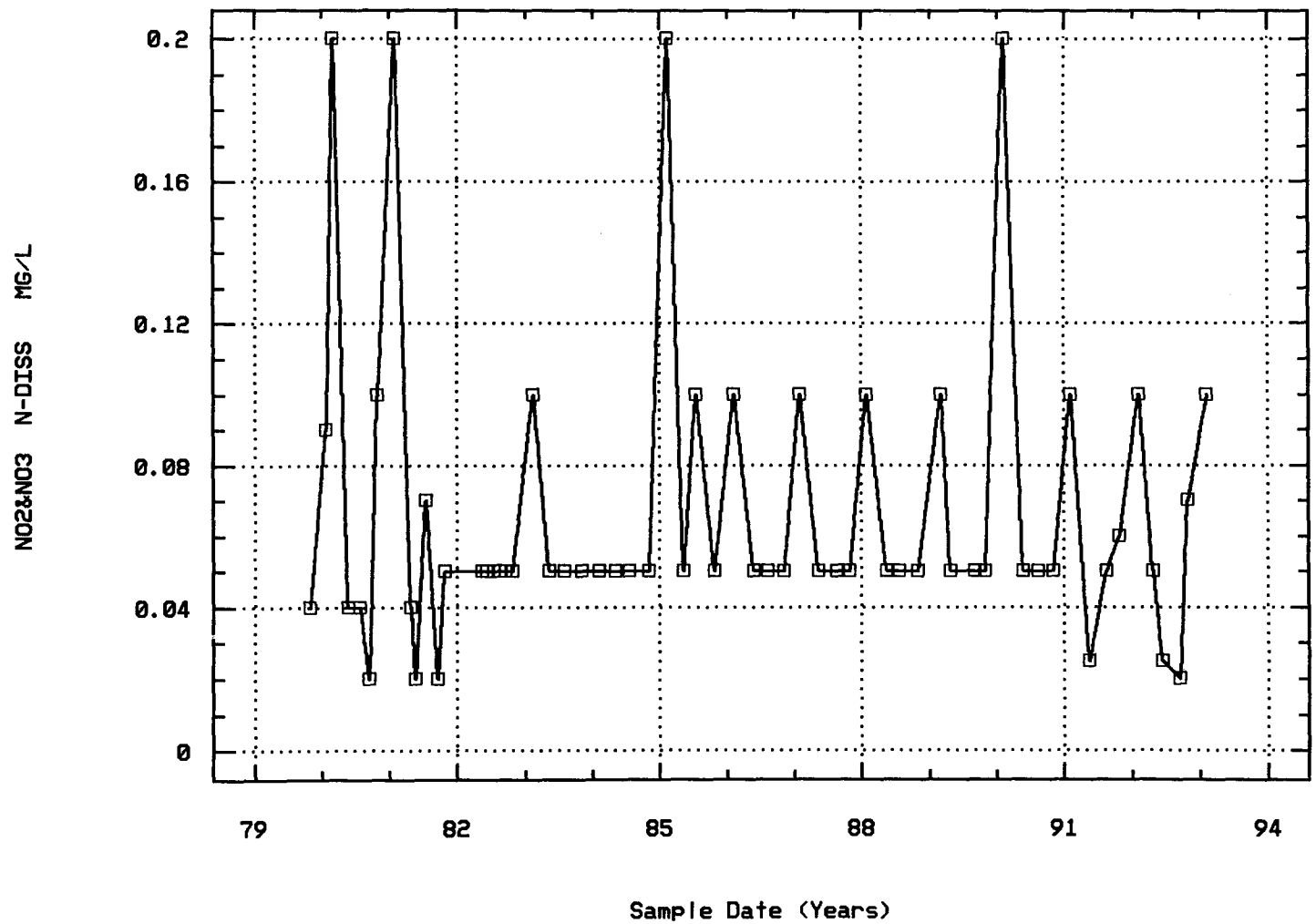
NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00631

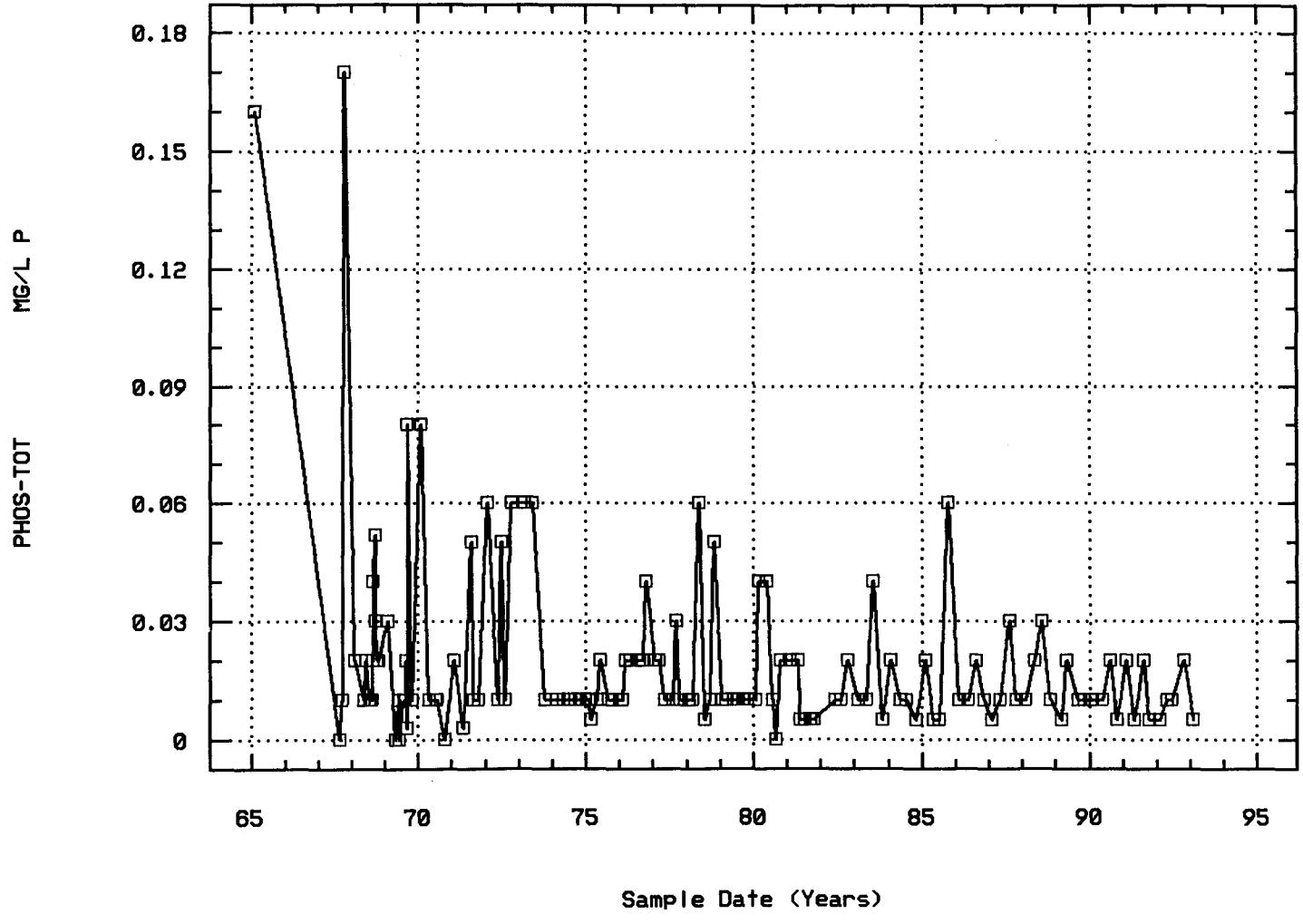
NITRITE PLUS NITRATE, DISS. 1 DET. (MG/



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00665

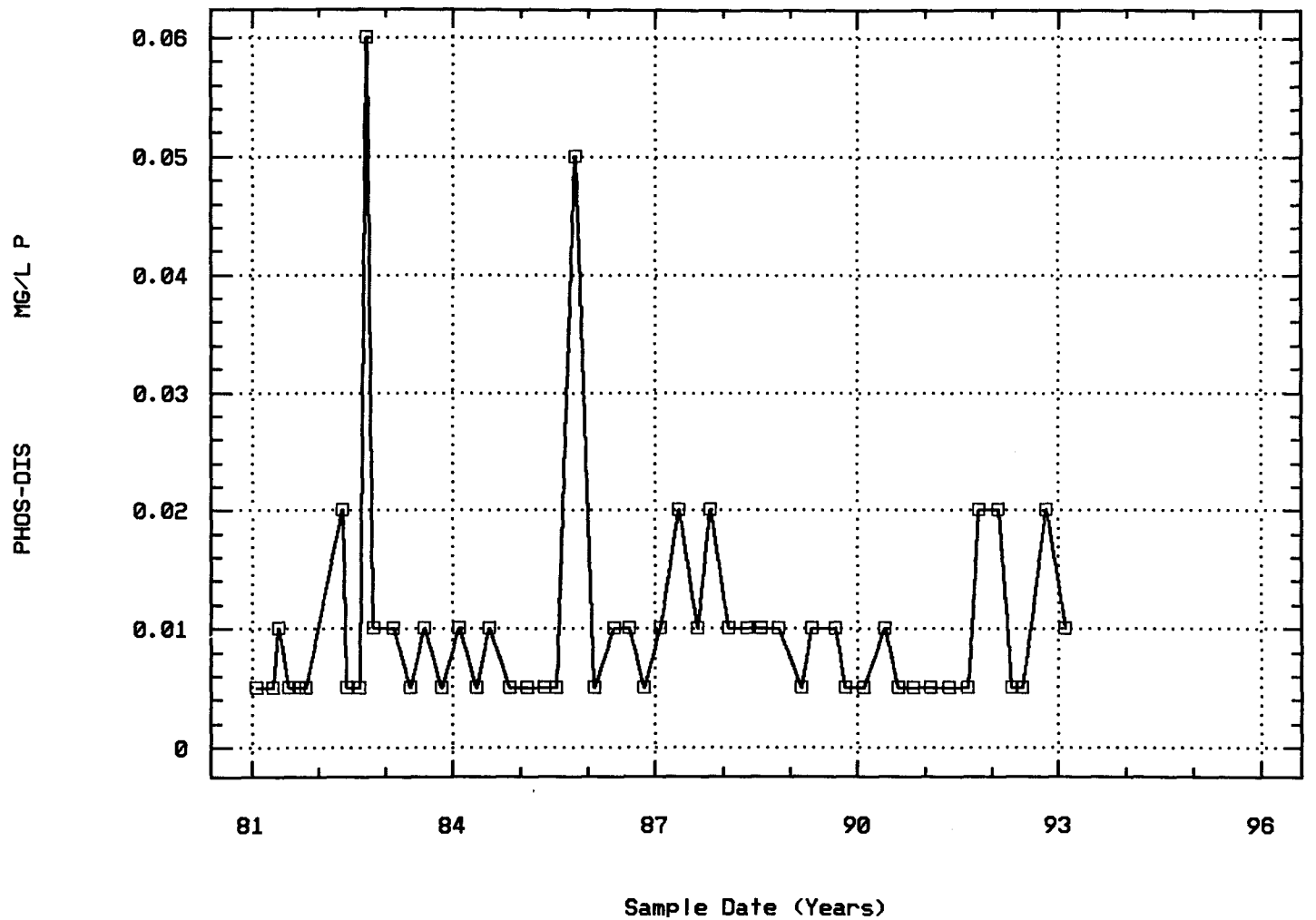
PHOSPHORUS, TOTAL (MG/L AS P)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 00666

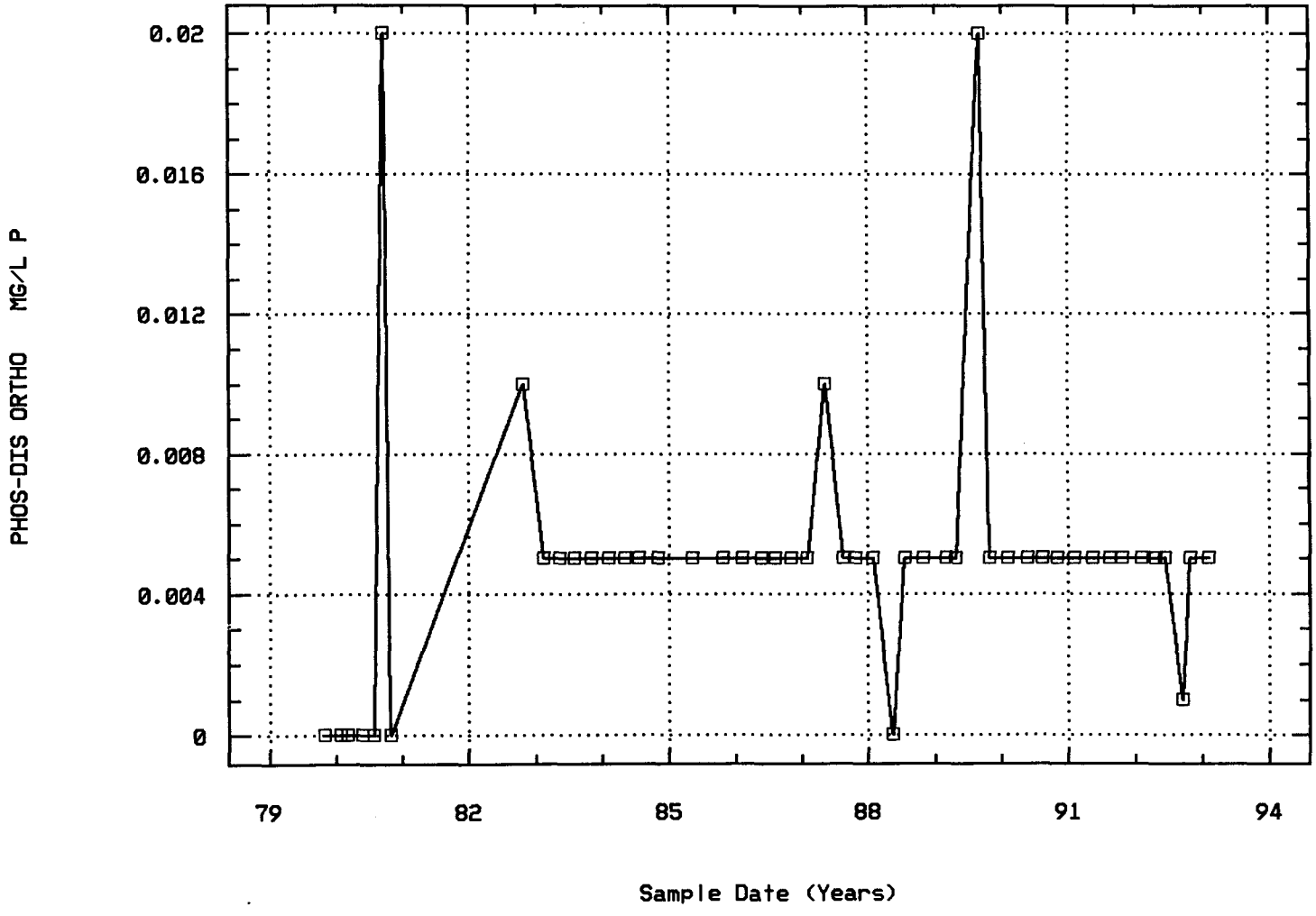
PHOSPHORUS, DISSOLVED (MG/L AS P)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00671

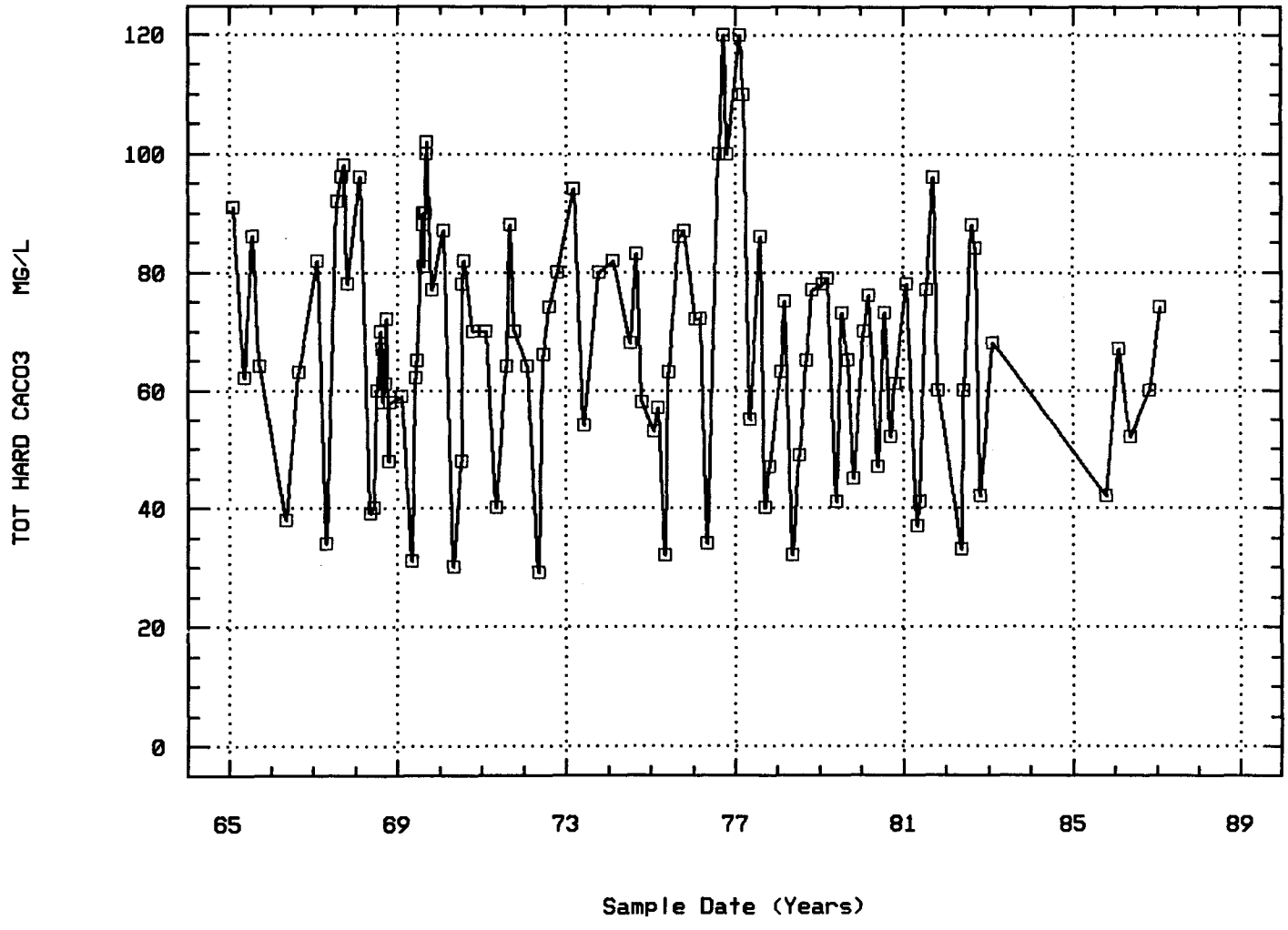
PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (M



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 00900

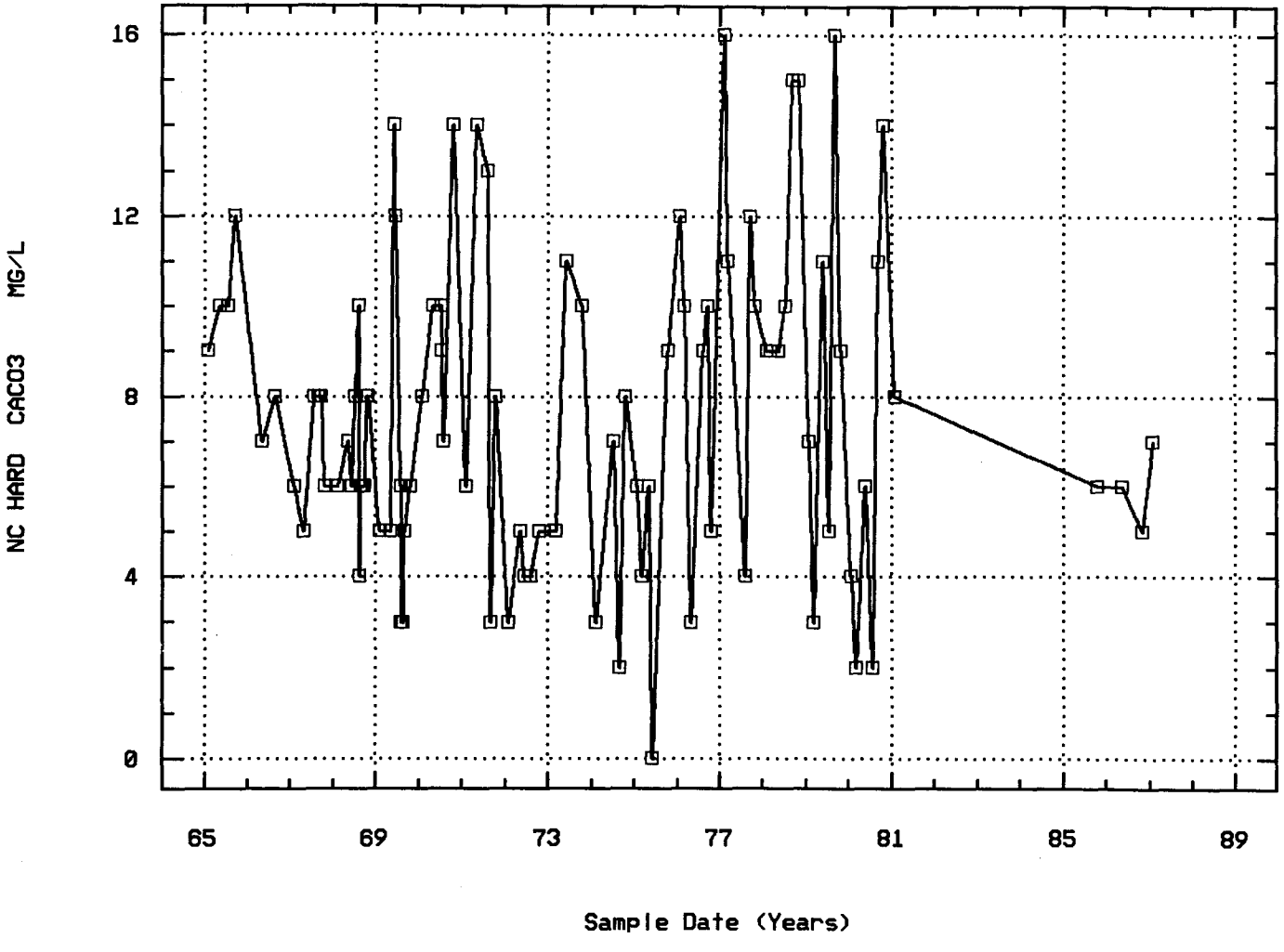
HARDNESS, TOTAL (MG/L AS CACO3)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 00902

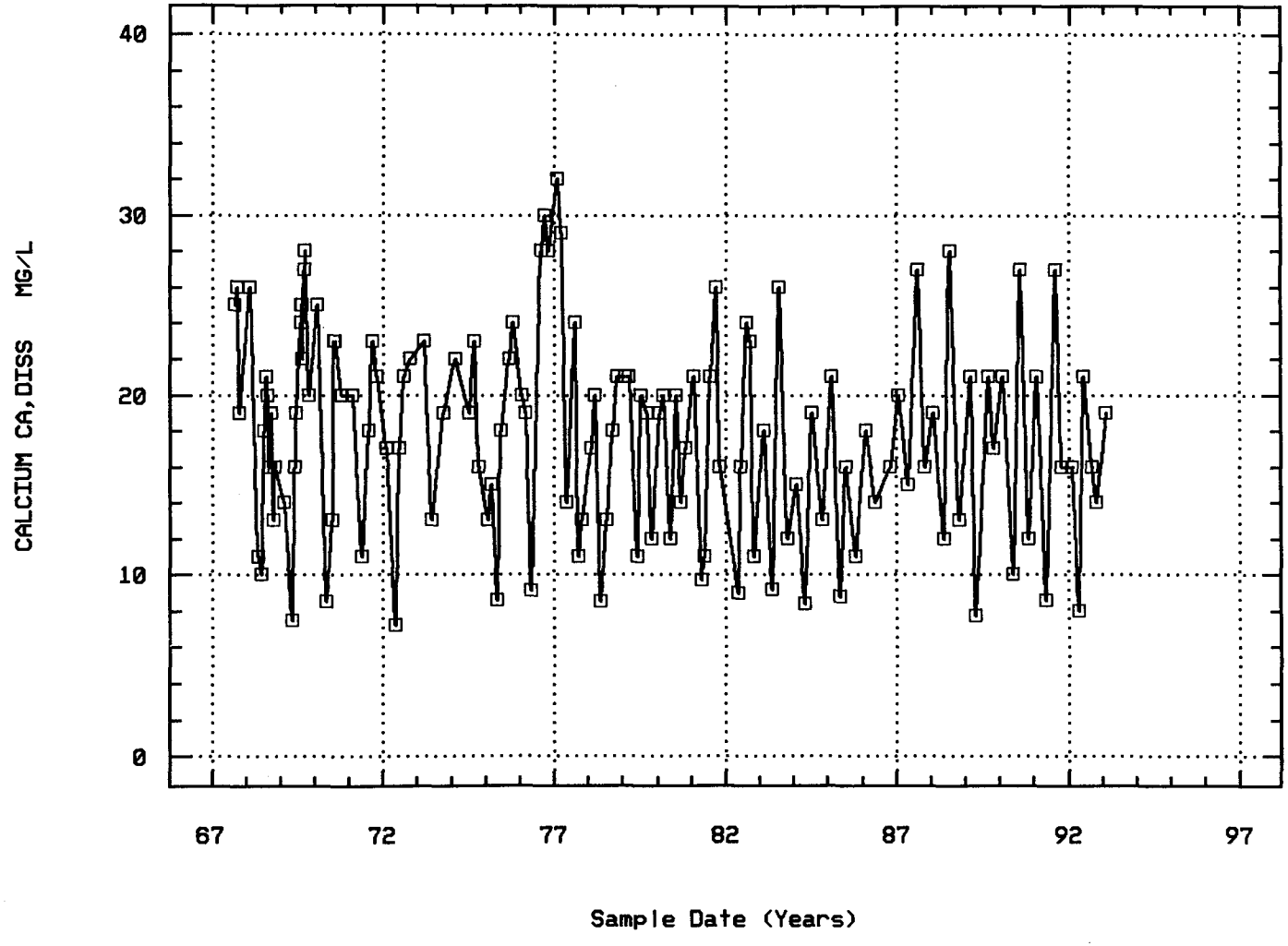
HARDNESS, NON-CARBONATE (MG/L AS CACO3)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00915

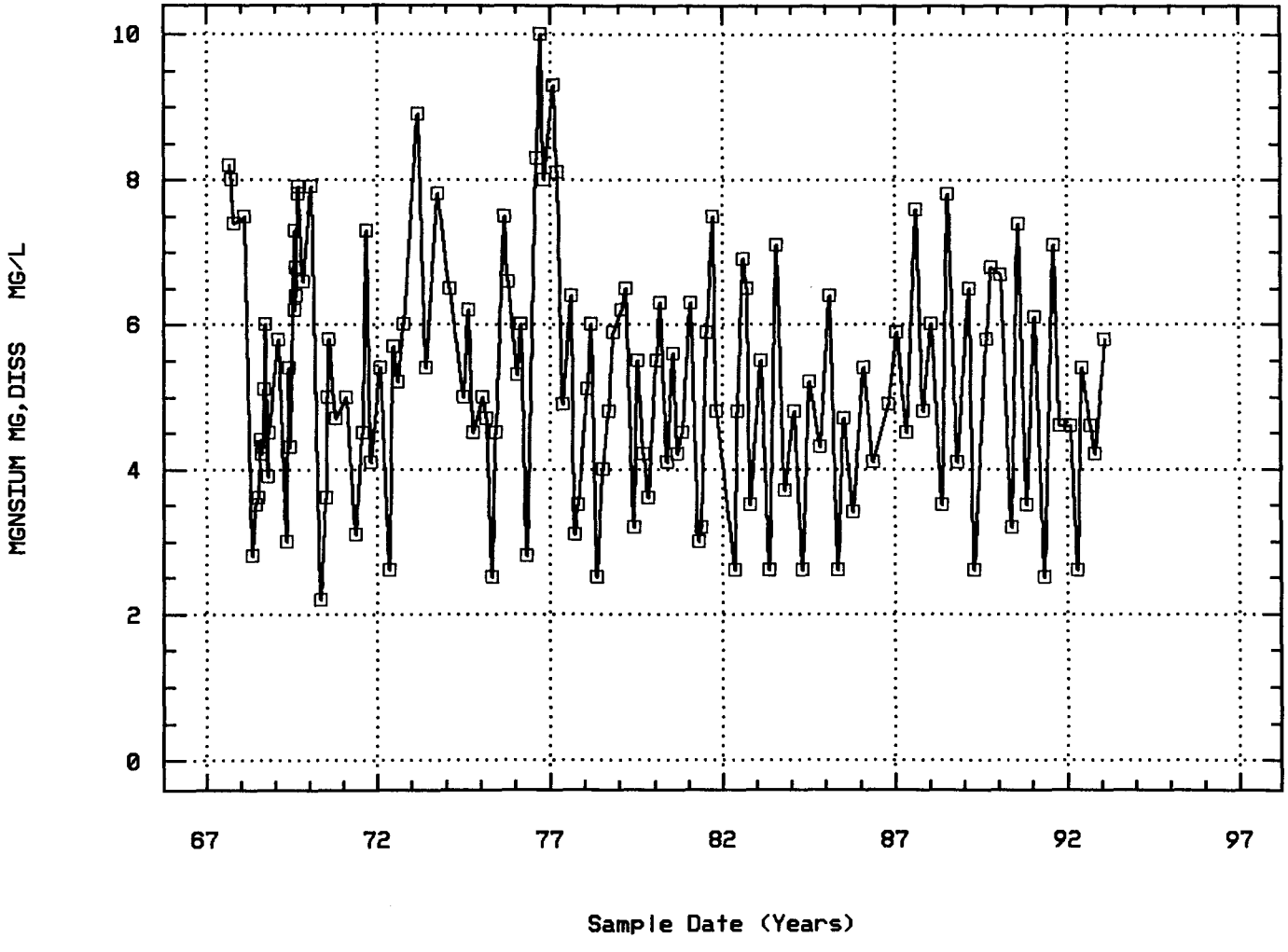
CALCIUM, DISSOLVED (MG/L AS CA)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00925

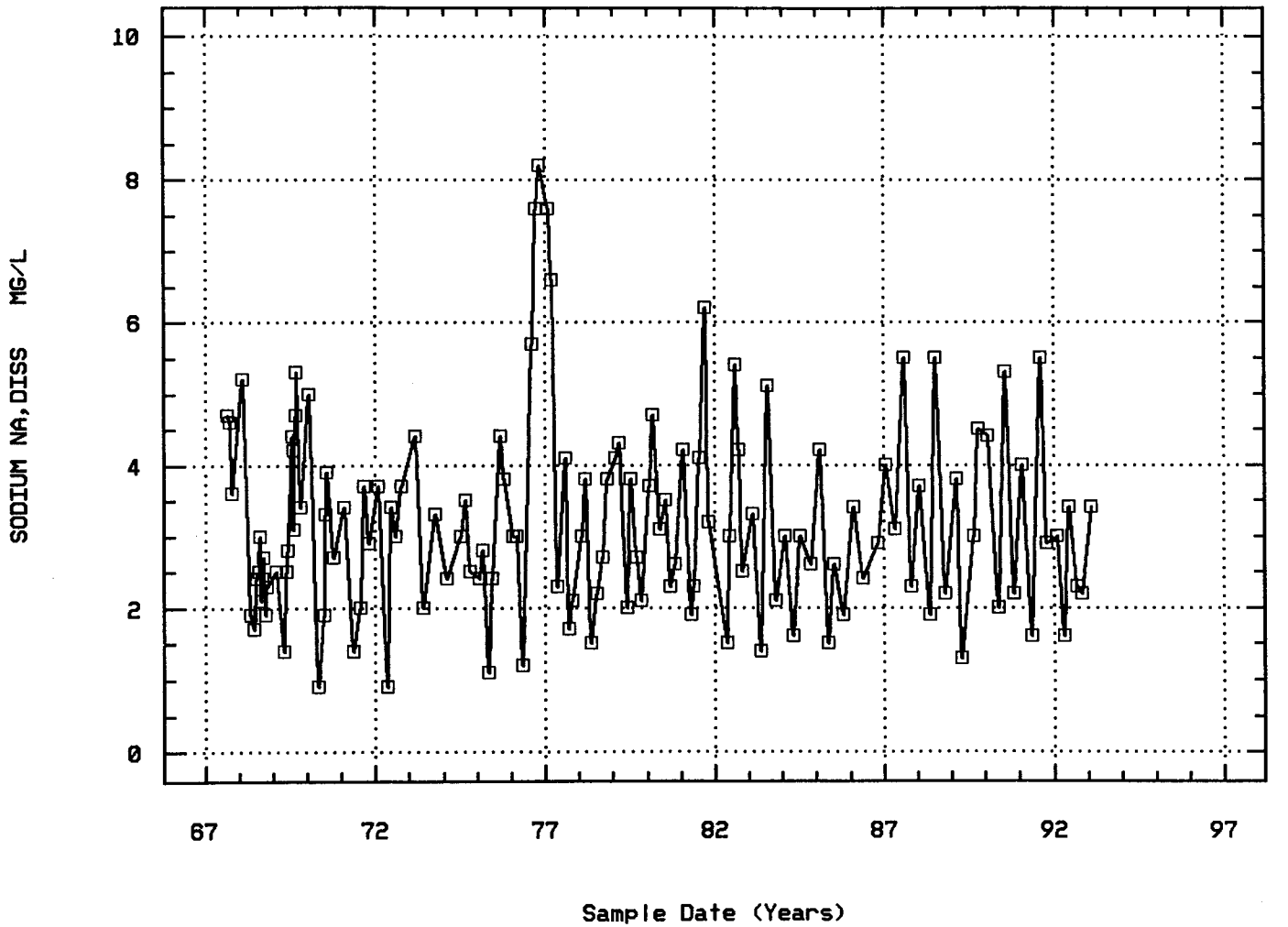
MAGNESIUM, DISSOLVED (MG/L AS MG)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00930

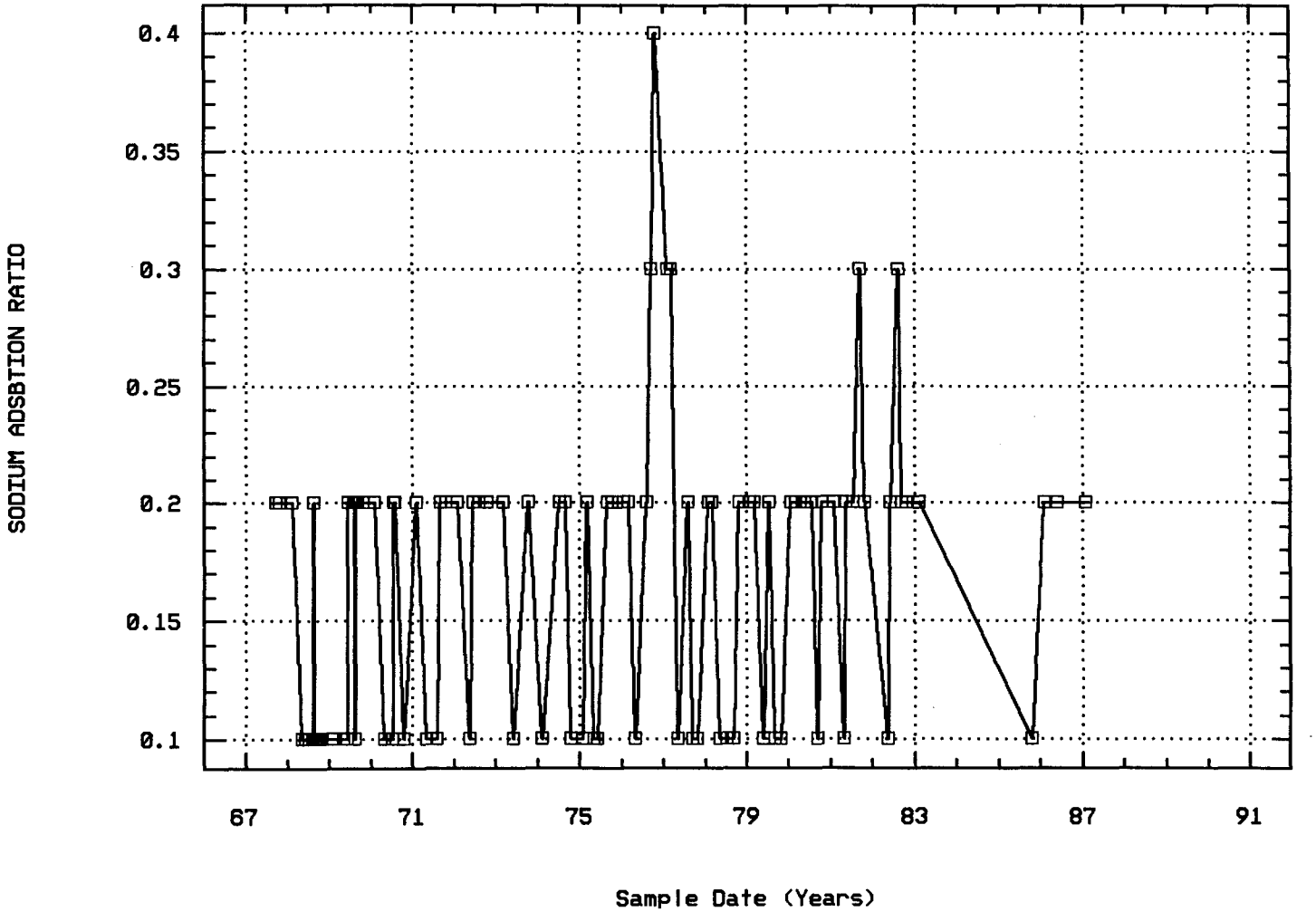
SODIUM, DISSOLVED (MG/L AS NA)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00931

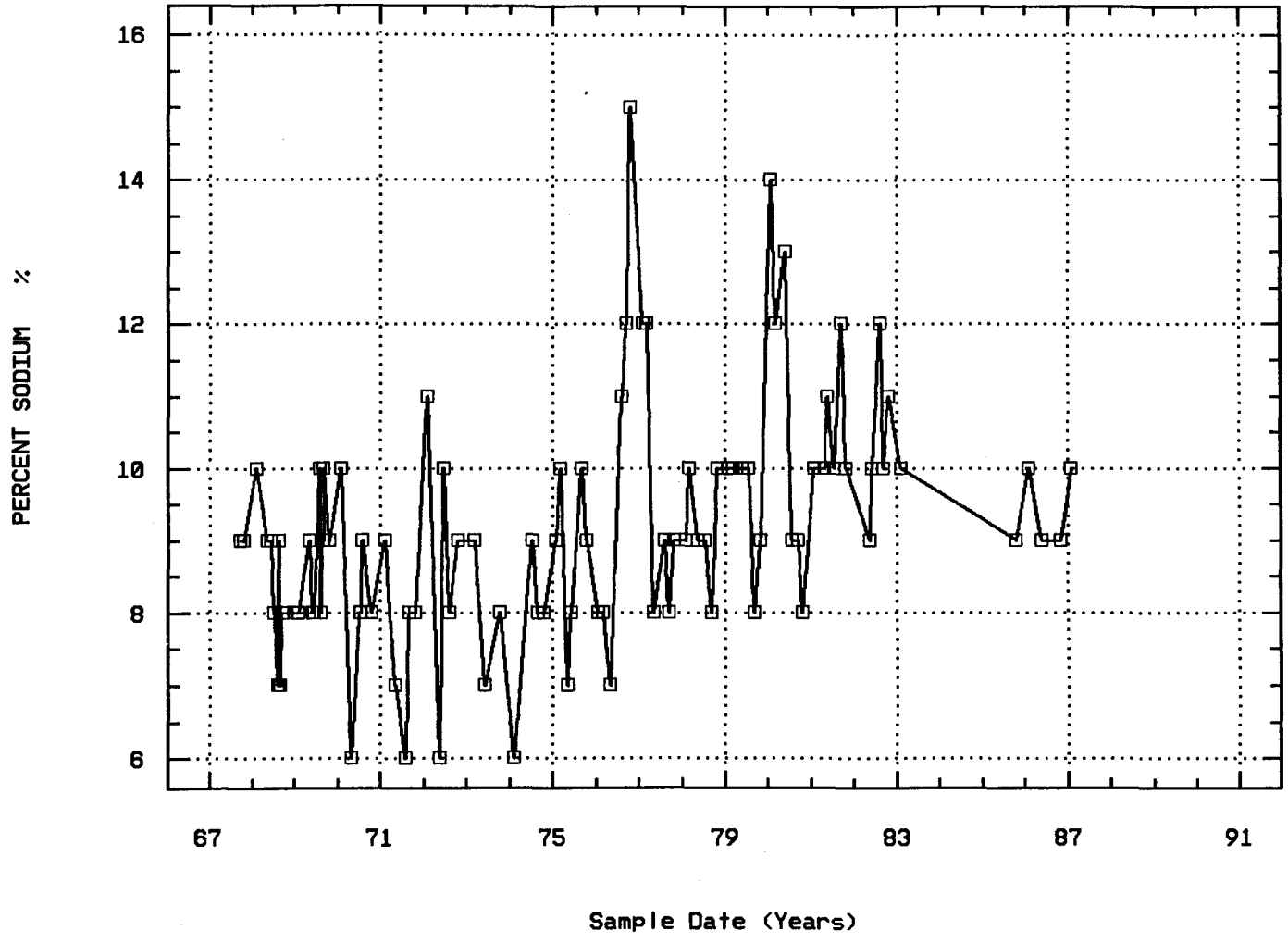
SODIUM ADSORPTION RATIO



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 00932

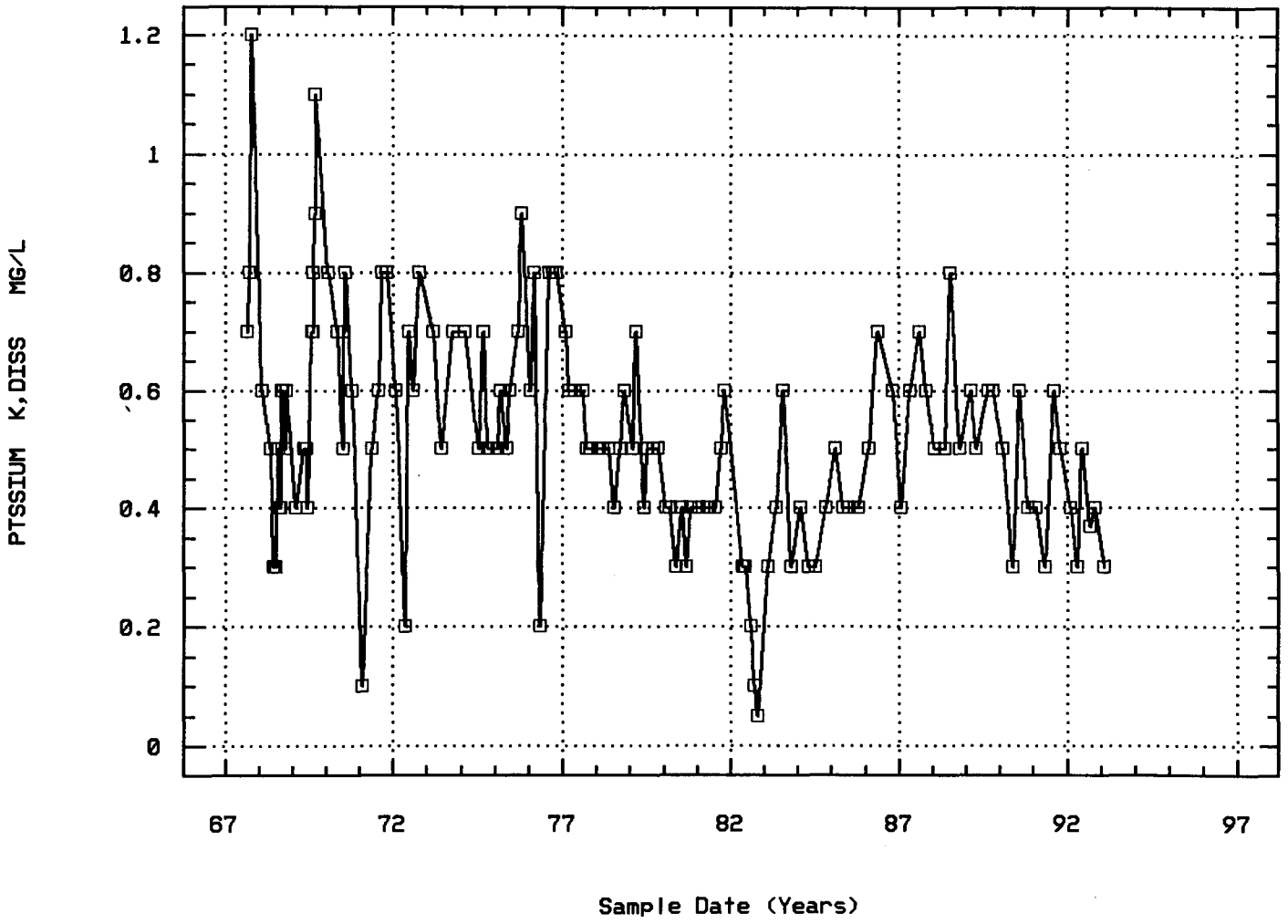
SODIUM, PERCENT



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 00935

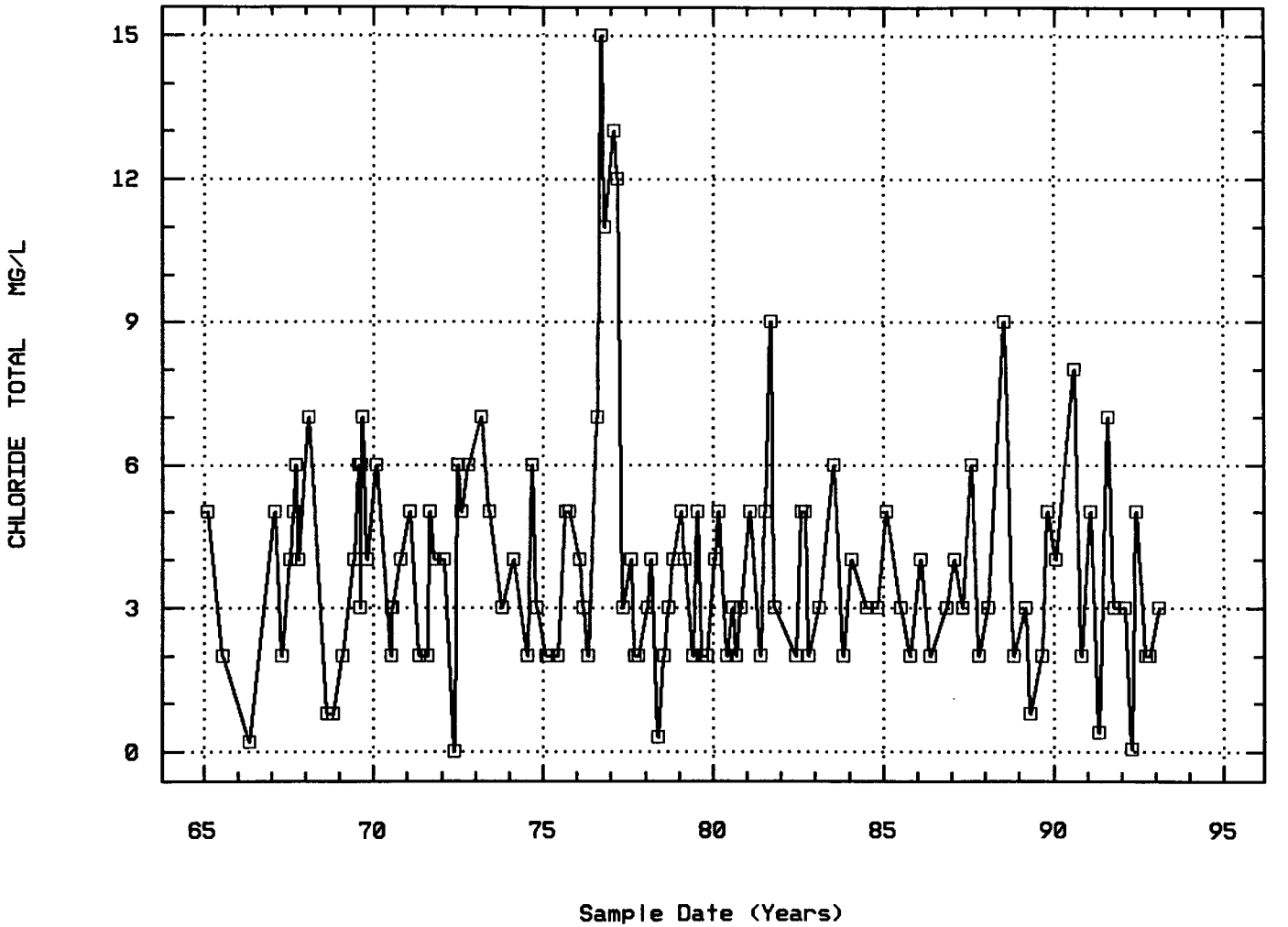
POTASSIUM, DISSOLVED (MG/L AS K)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00940

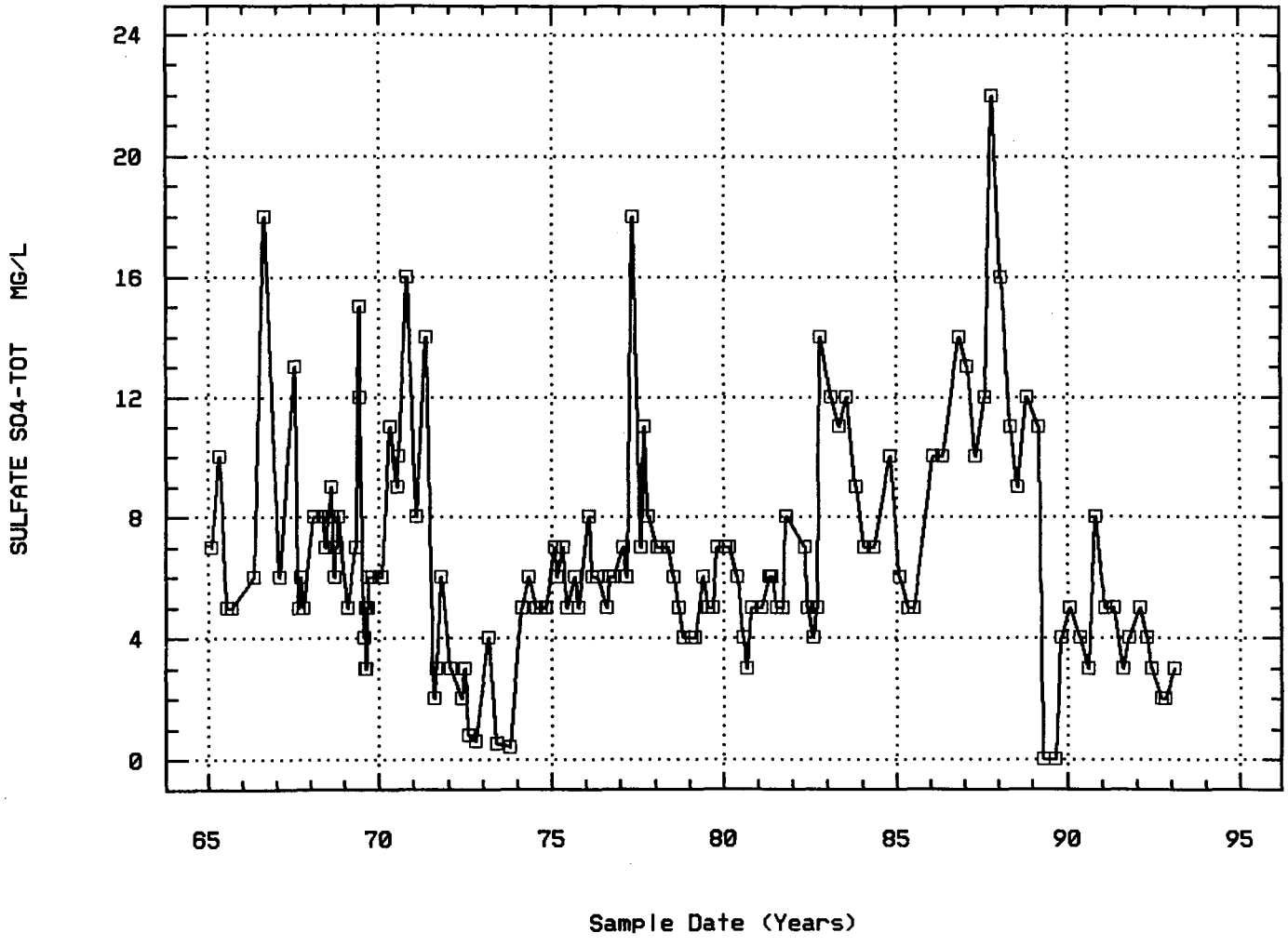
CHLORIDE,TOTAL IN WATER



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00945

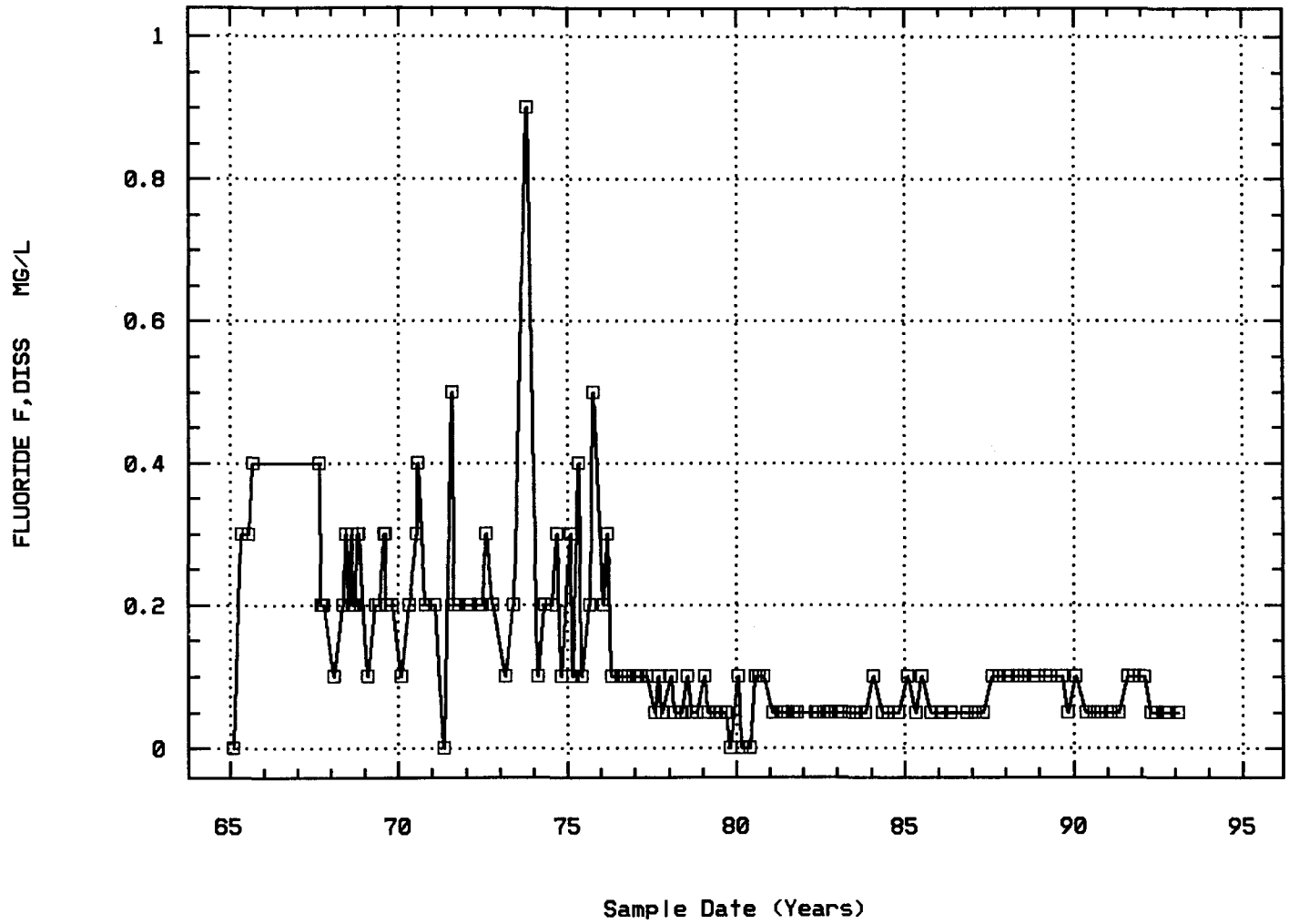
SULFATE, TOTAL (MG/L AS SO4)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00950

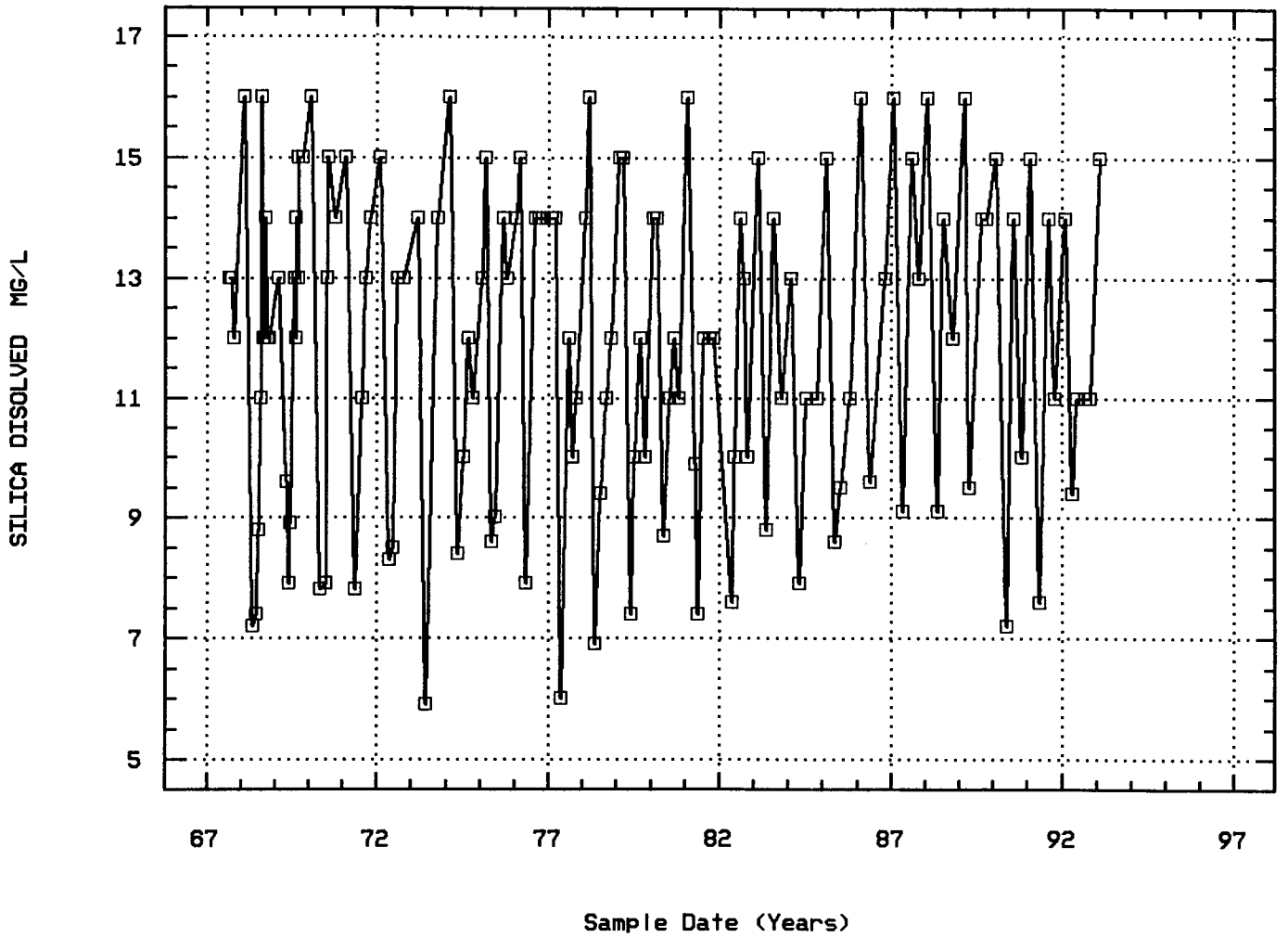
FLUORIDE, DISSOLVED (MG/L AS F)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00955

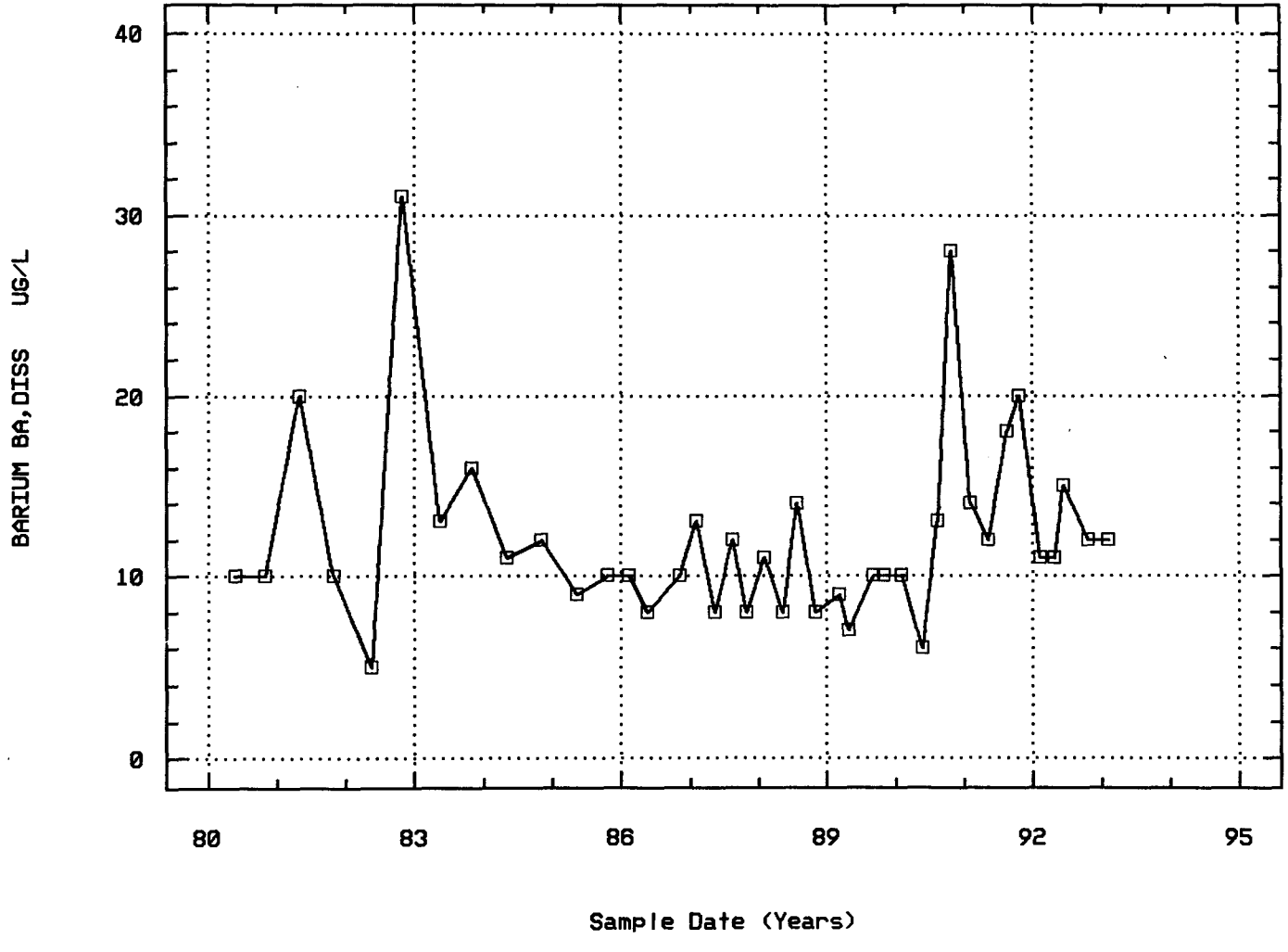
SILICA, DISSOLVED (MG/L AS SI02)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 01005

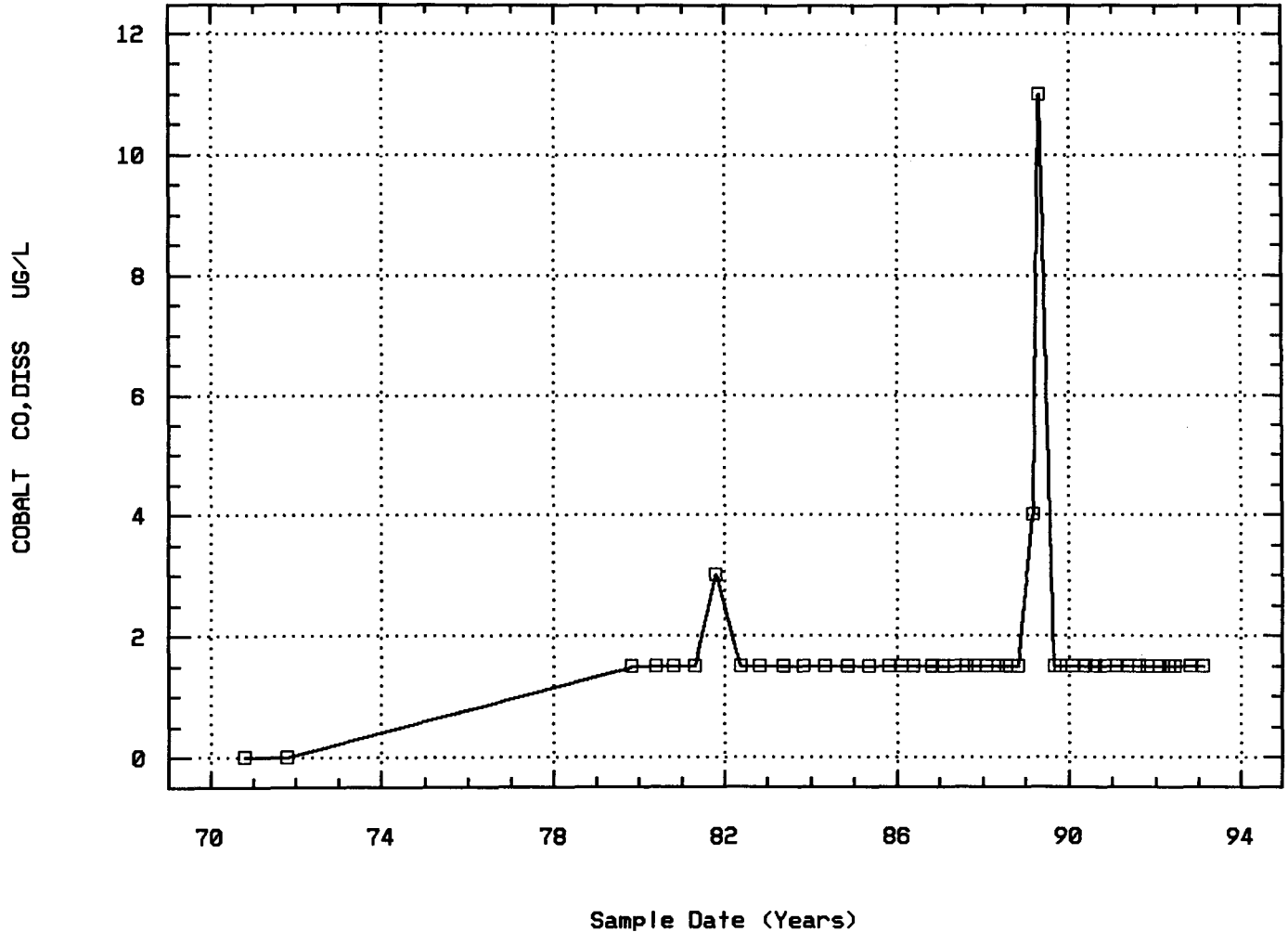
BARIUM, DISSOLVED (UG/L AS BA)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 01035

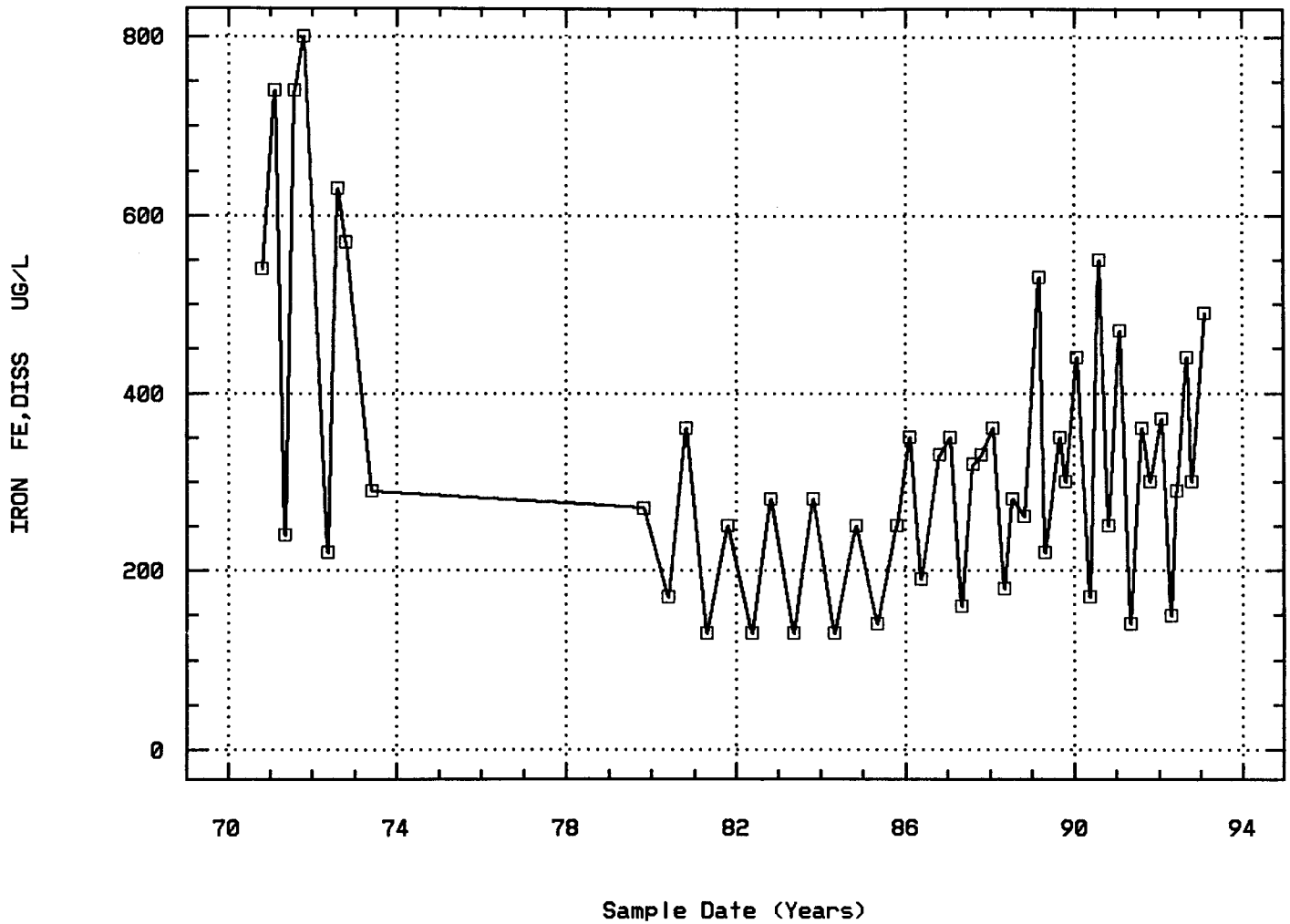
COBALT, DISSOLVED (UG/L AS CO)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 01046

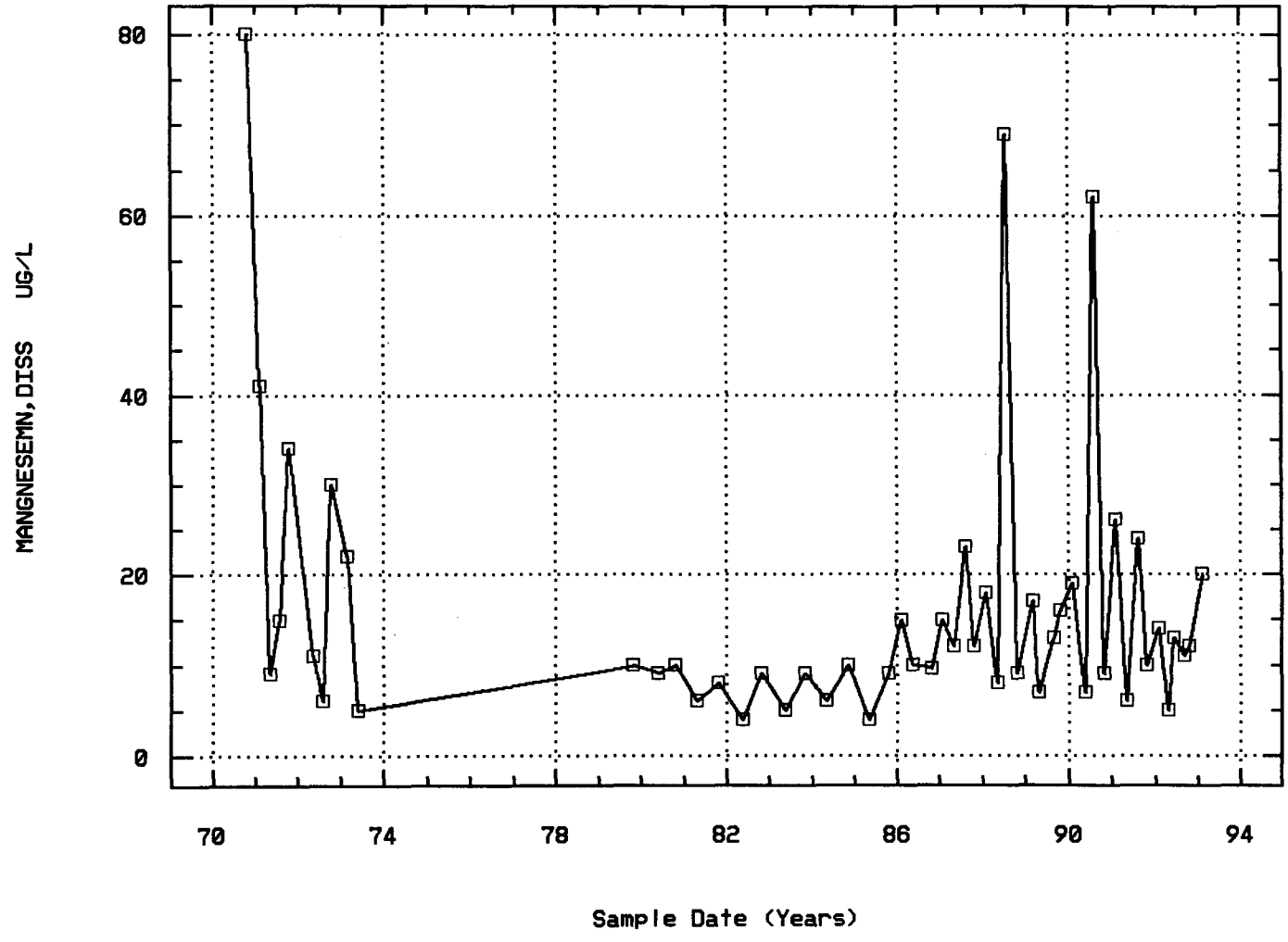
IRON, DISSOLVED (UG/L AS FE)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 01056

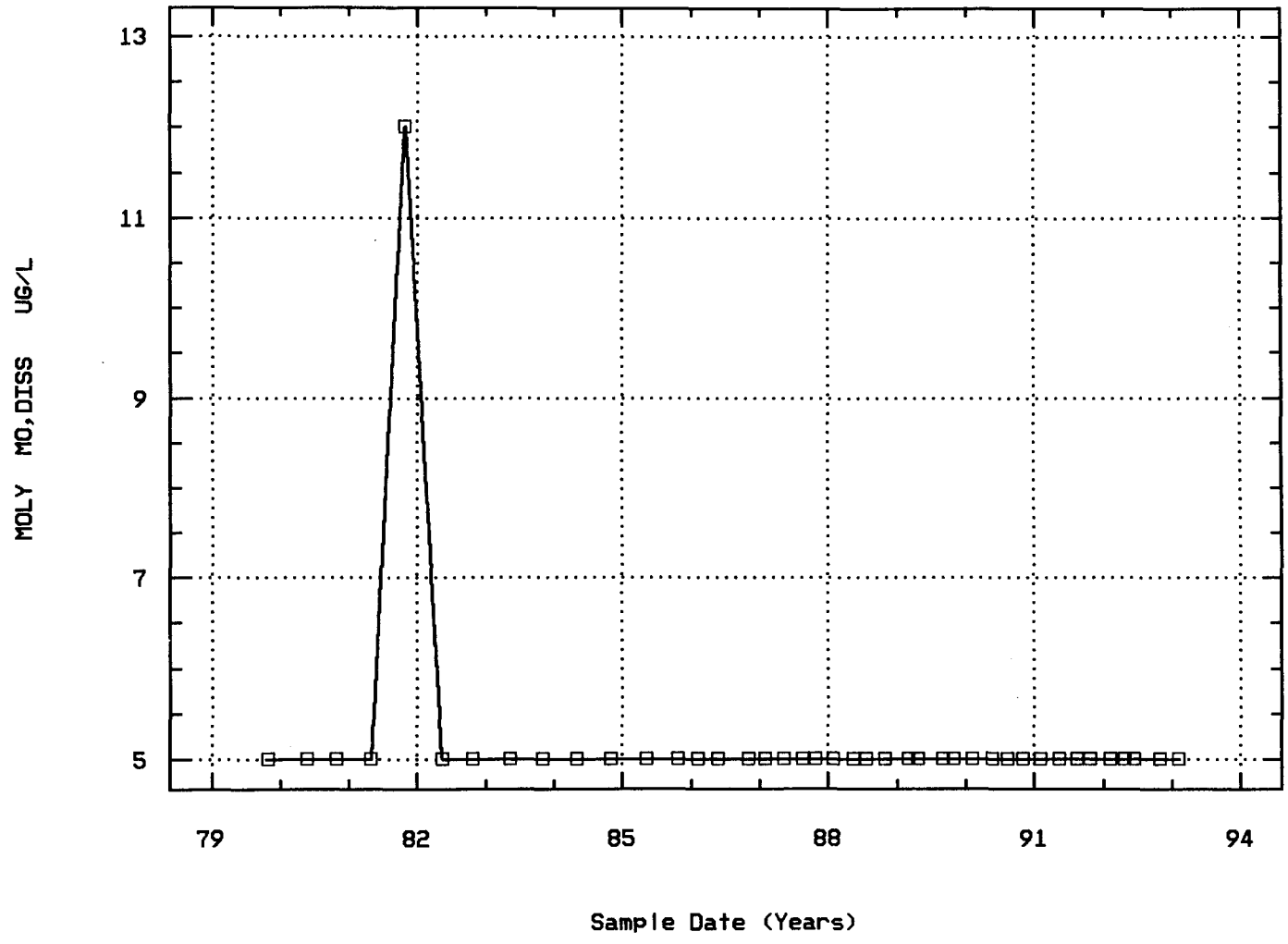
MANGANESE, DISSOLVED (UG/L AS MN)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 01060

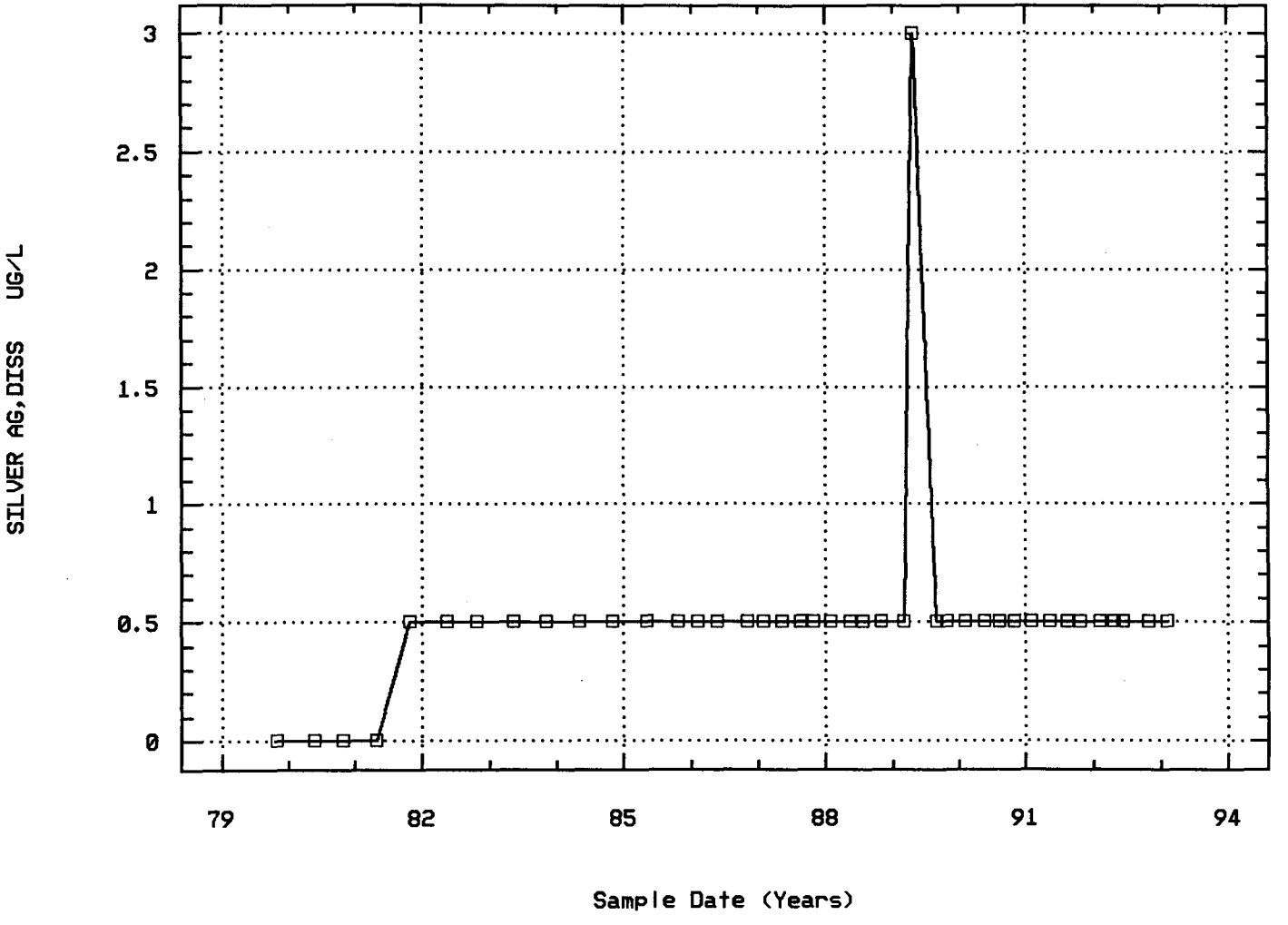
MOLYBDENUM, DISSOLVED (UG/L AS MO)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 01075

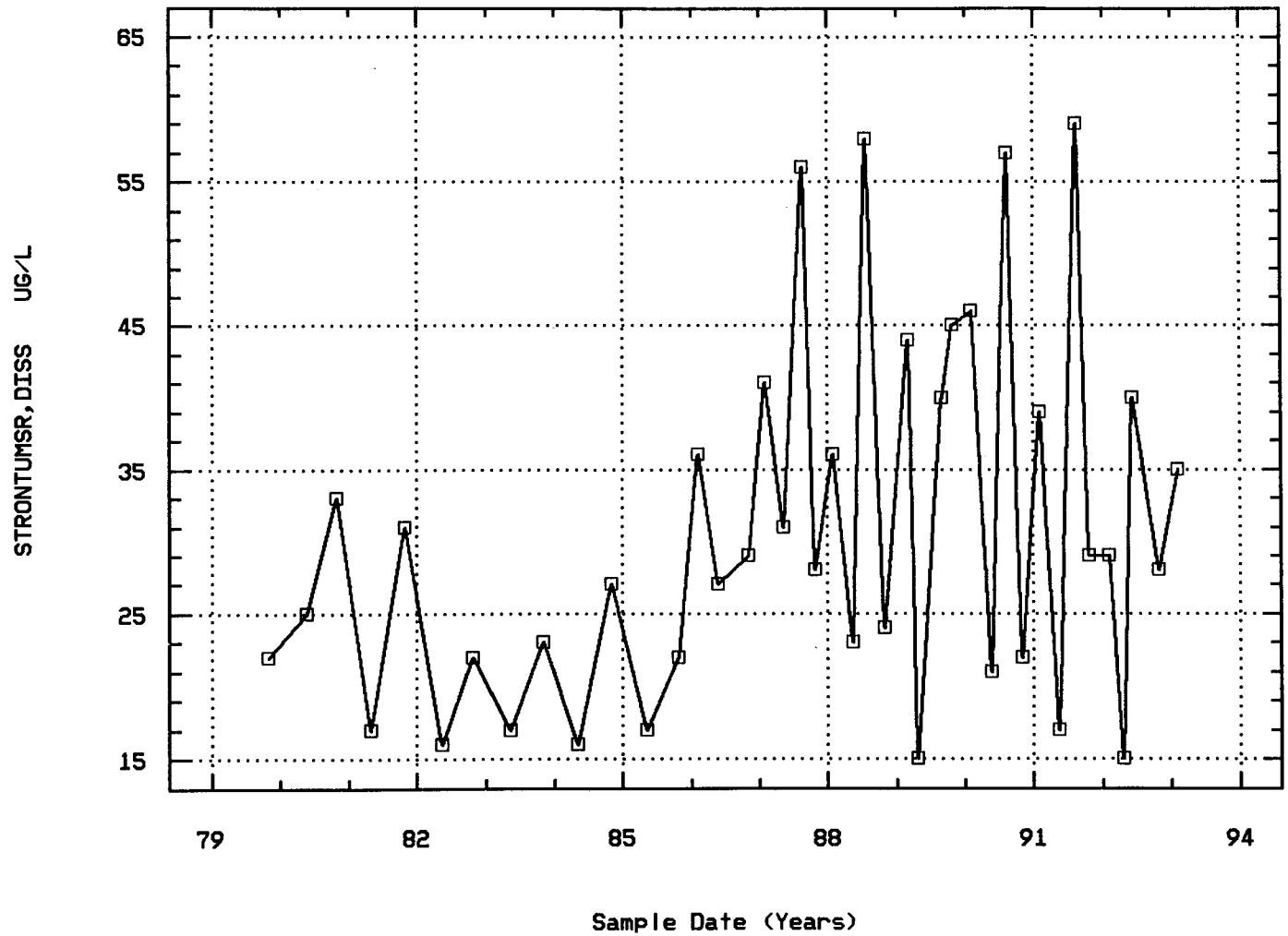
SILVER, DISSOLVED (UG/L AS AG)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 01080

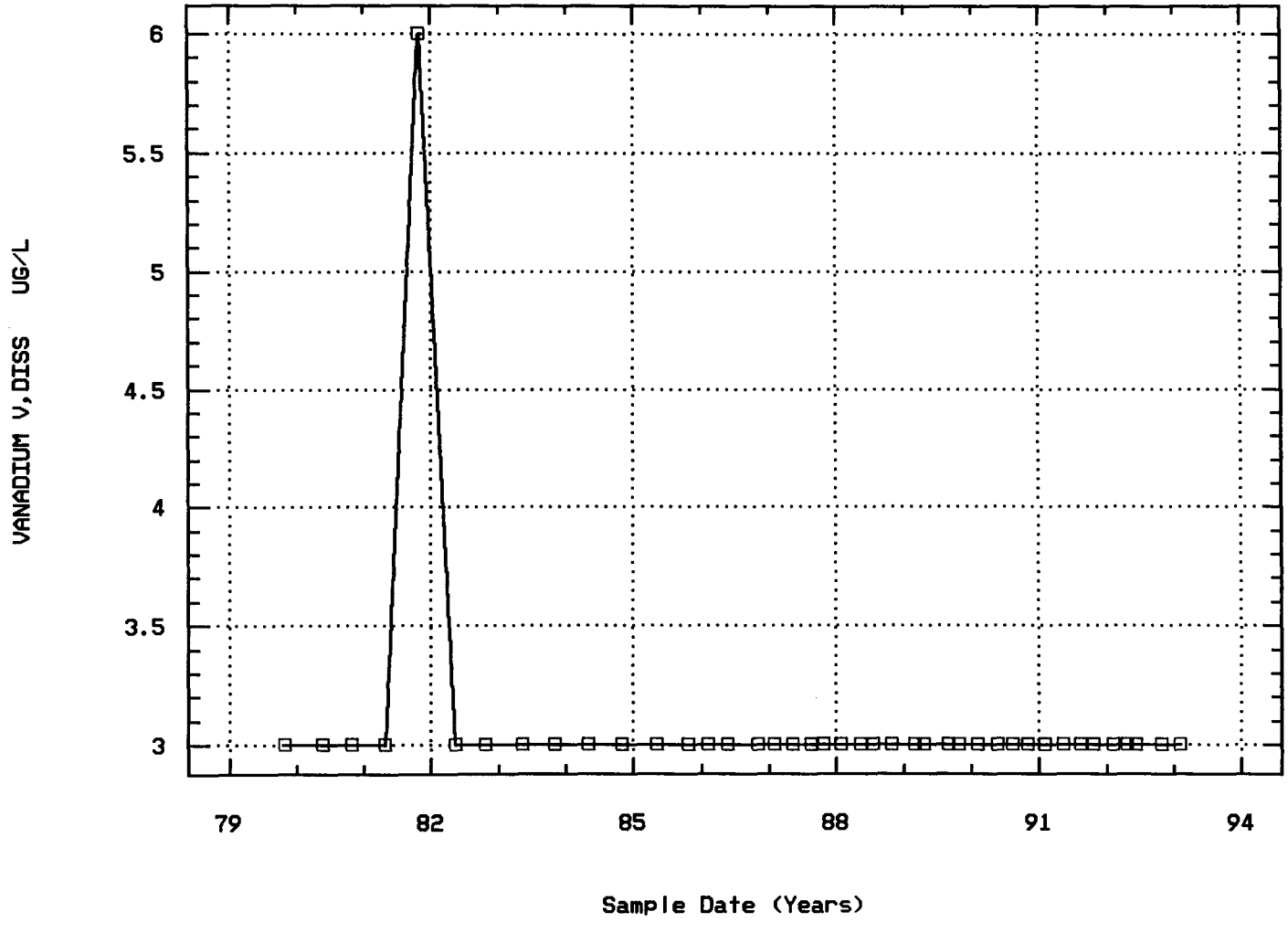
STRONTIUM, DISSOLVED (UG/L AS SR)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 01085

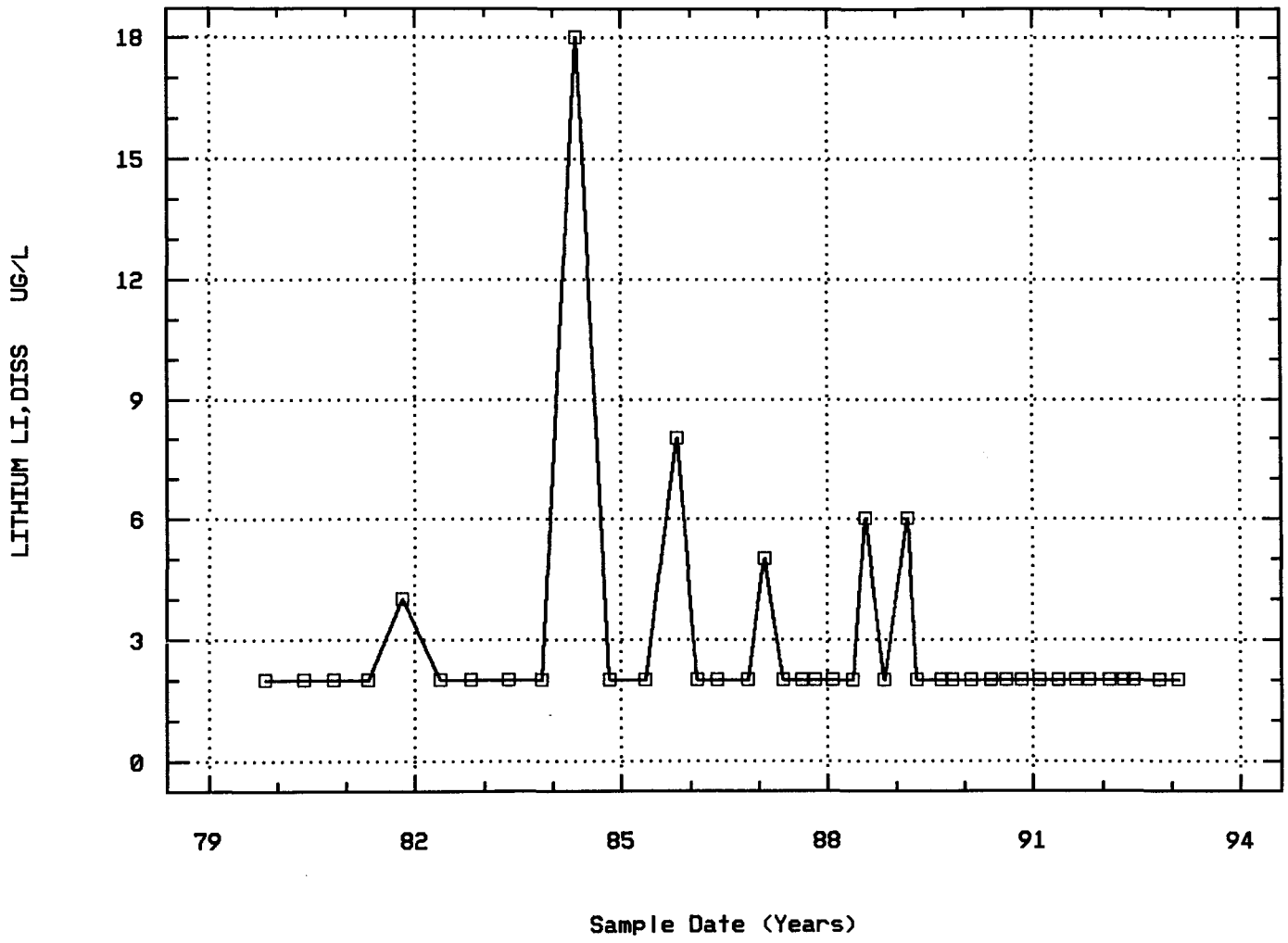
VANADIUM, DISSOLVED (UG/L AS V)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 01130

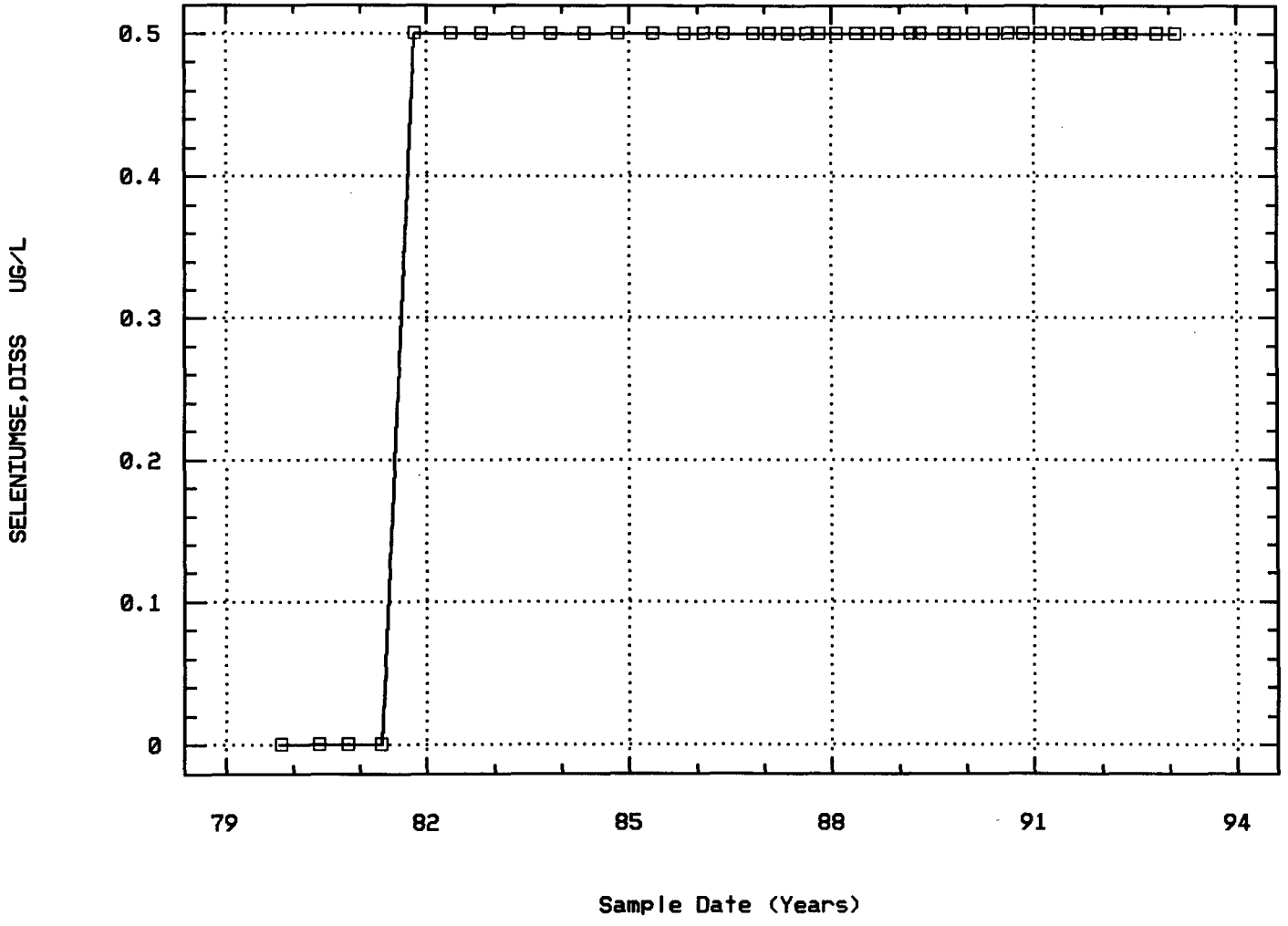
LITHIUM, DISSOLVED (UG/L AS LI)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 01145

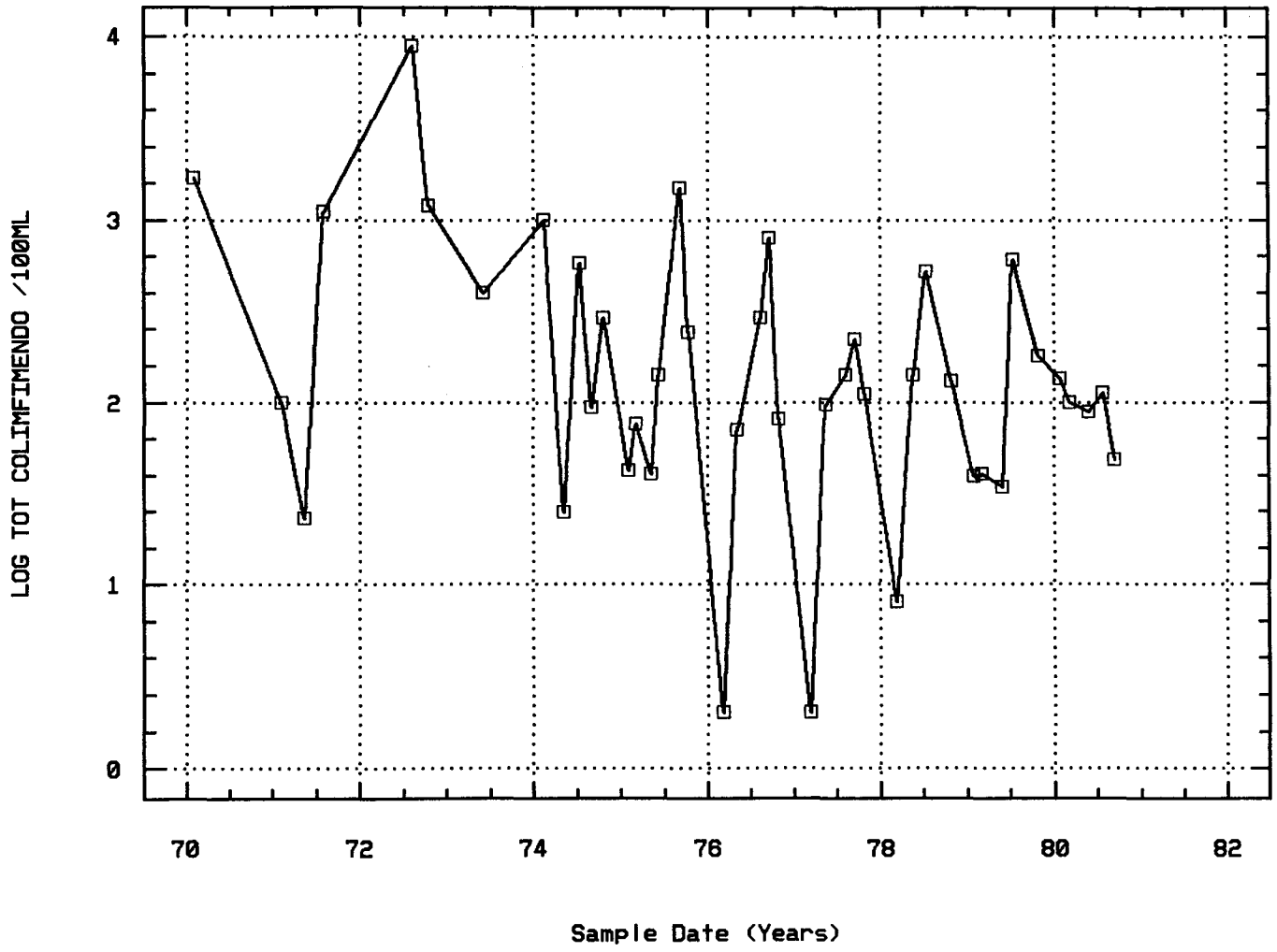
SELENIUM, DISSOLVED (UG/L AS SE)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 31501

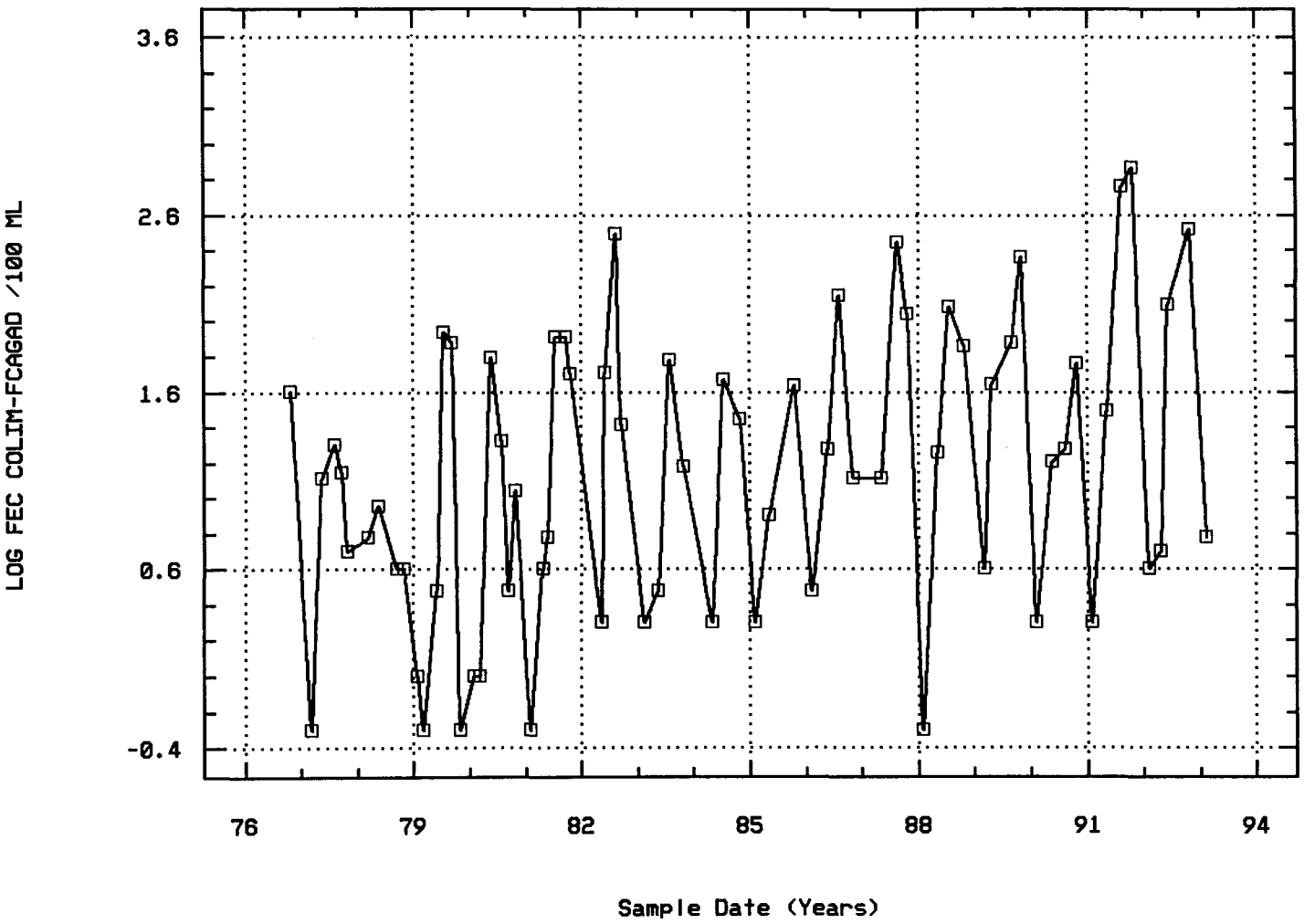
LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 31625

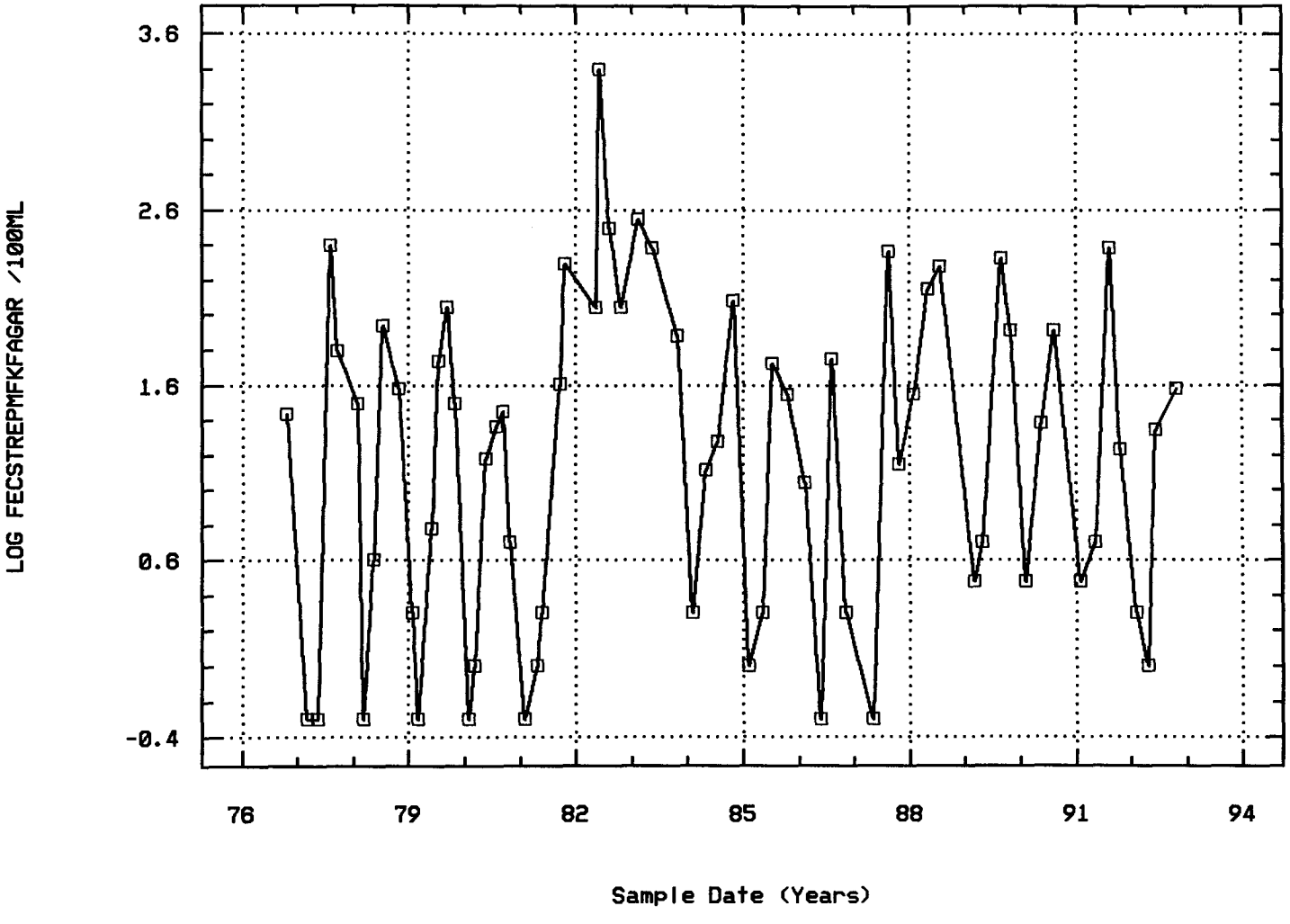
LOG FECAL COLIFORM, MF,M-FC, 0.7 UM



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 31673

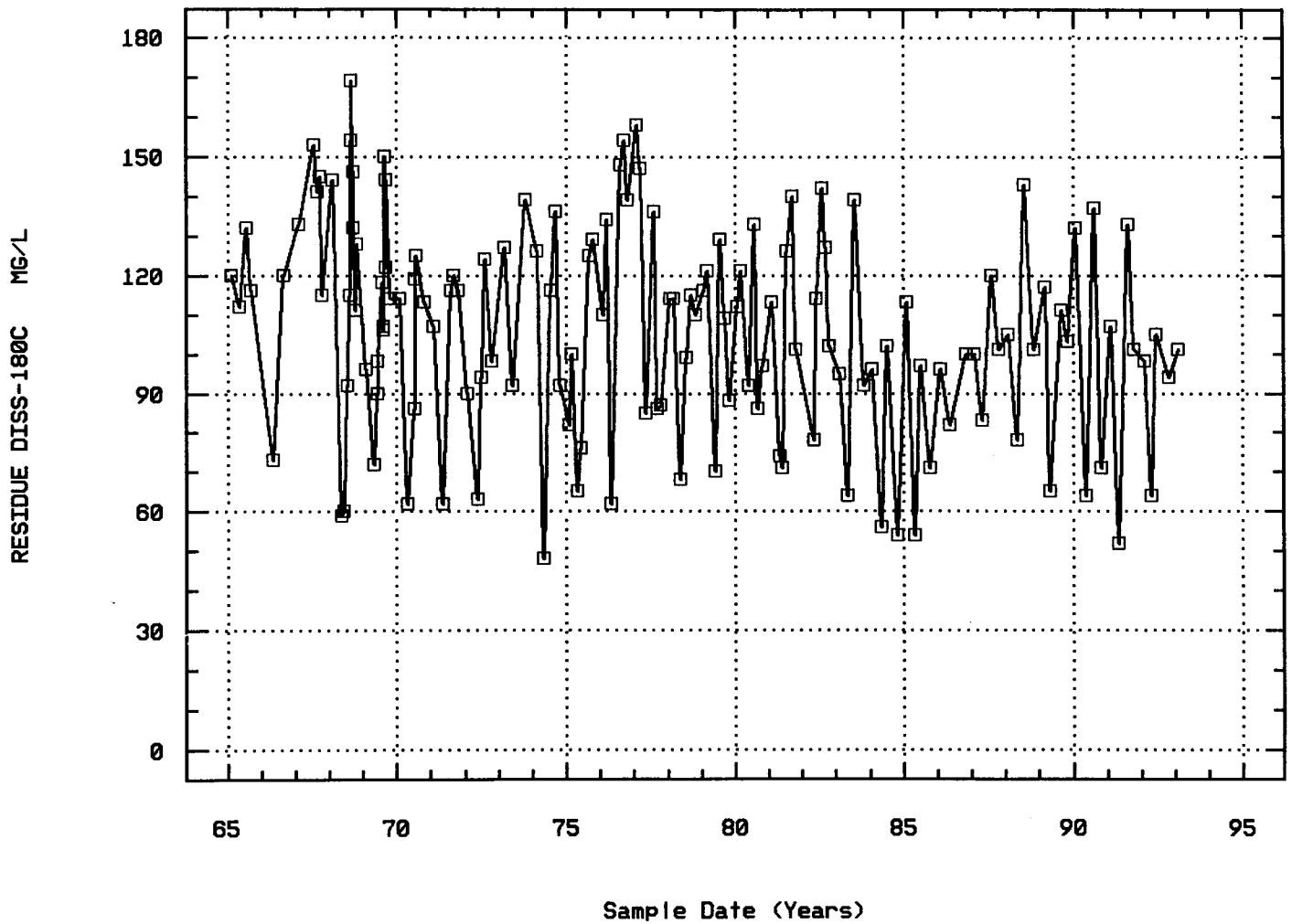
LOG FECAL STREPTOCOCCI, MBR FILT,KF AGA



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 70300

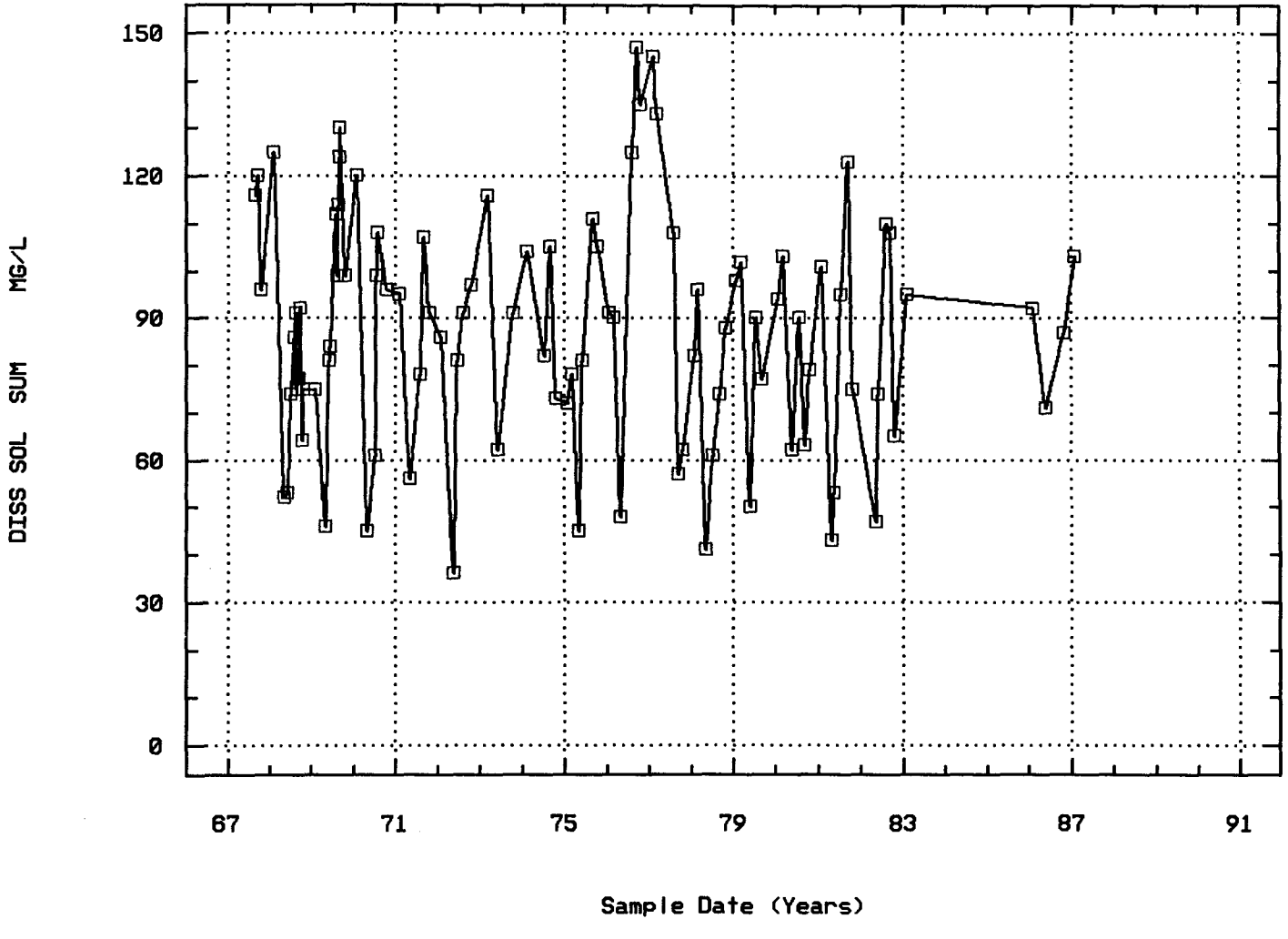
RESIDUE,TOTAL FILTRABLE (DRIED AT 180C)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 70301

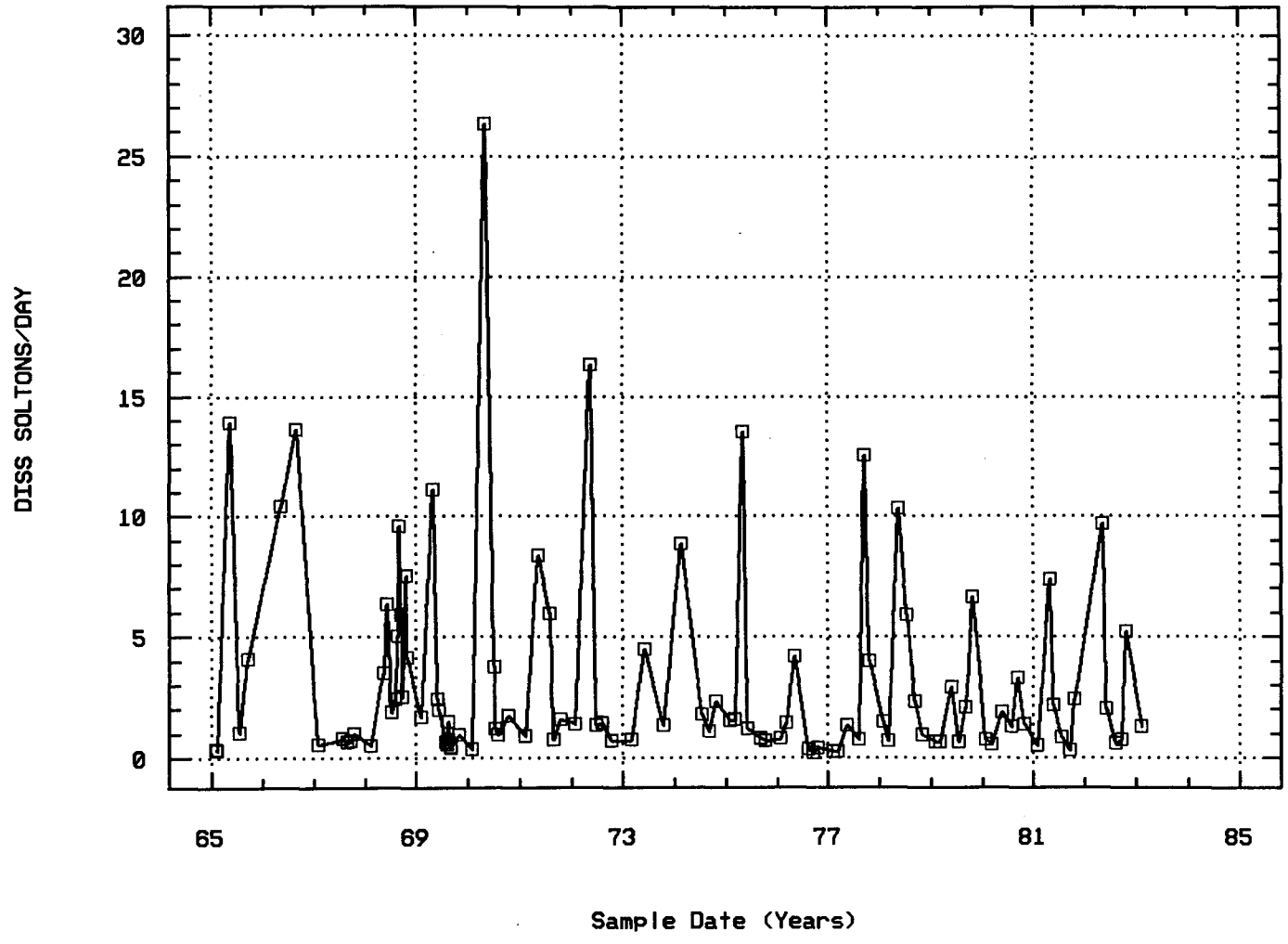
SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 70302

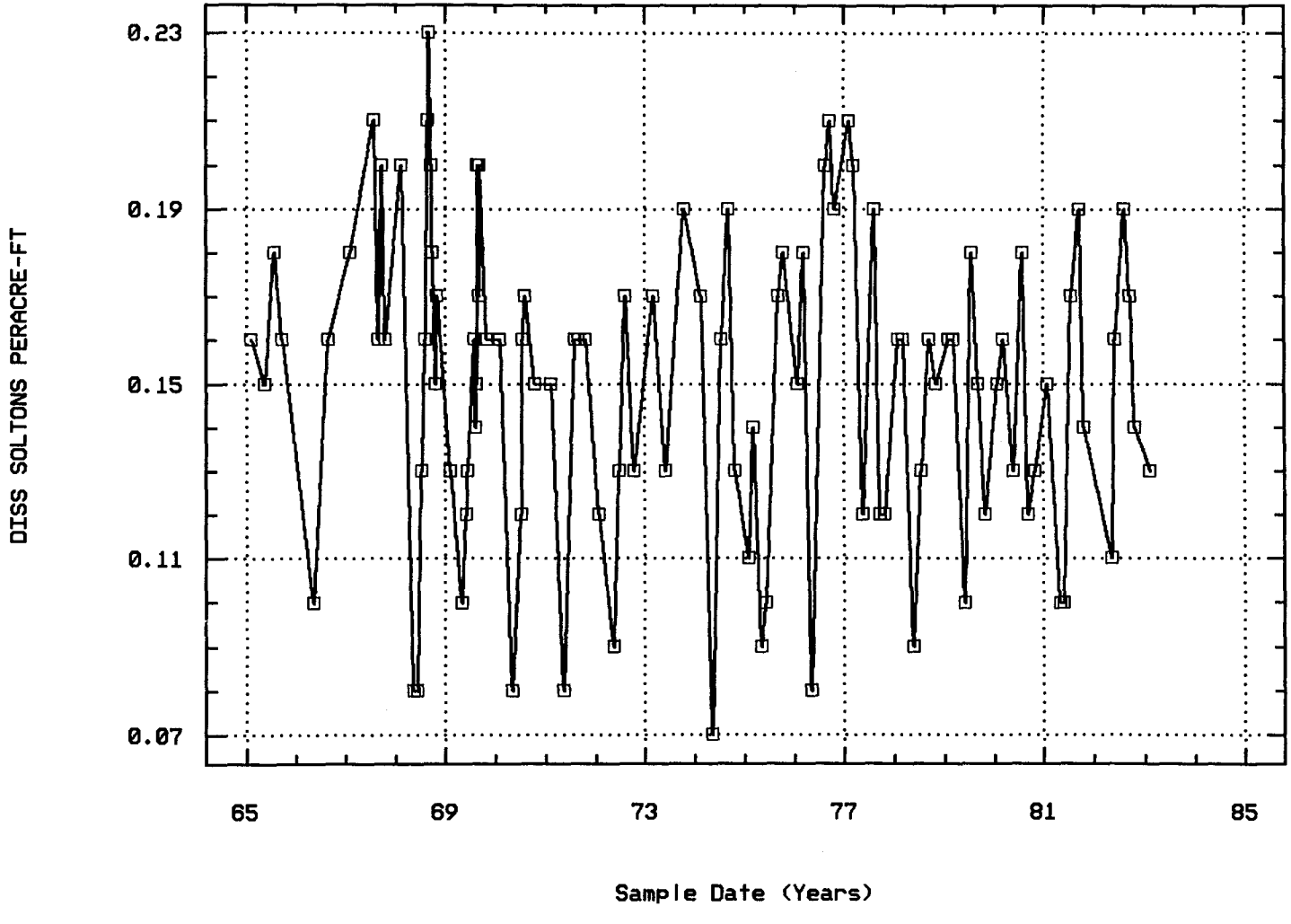
SOLIDS, DISSOLVED-TONS PER DAY



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 70303

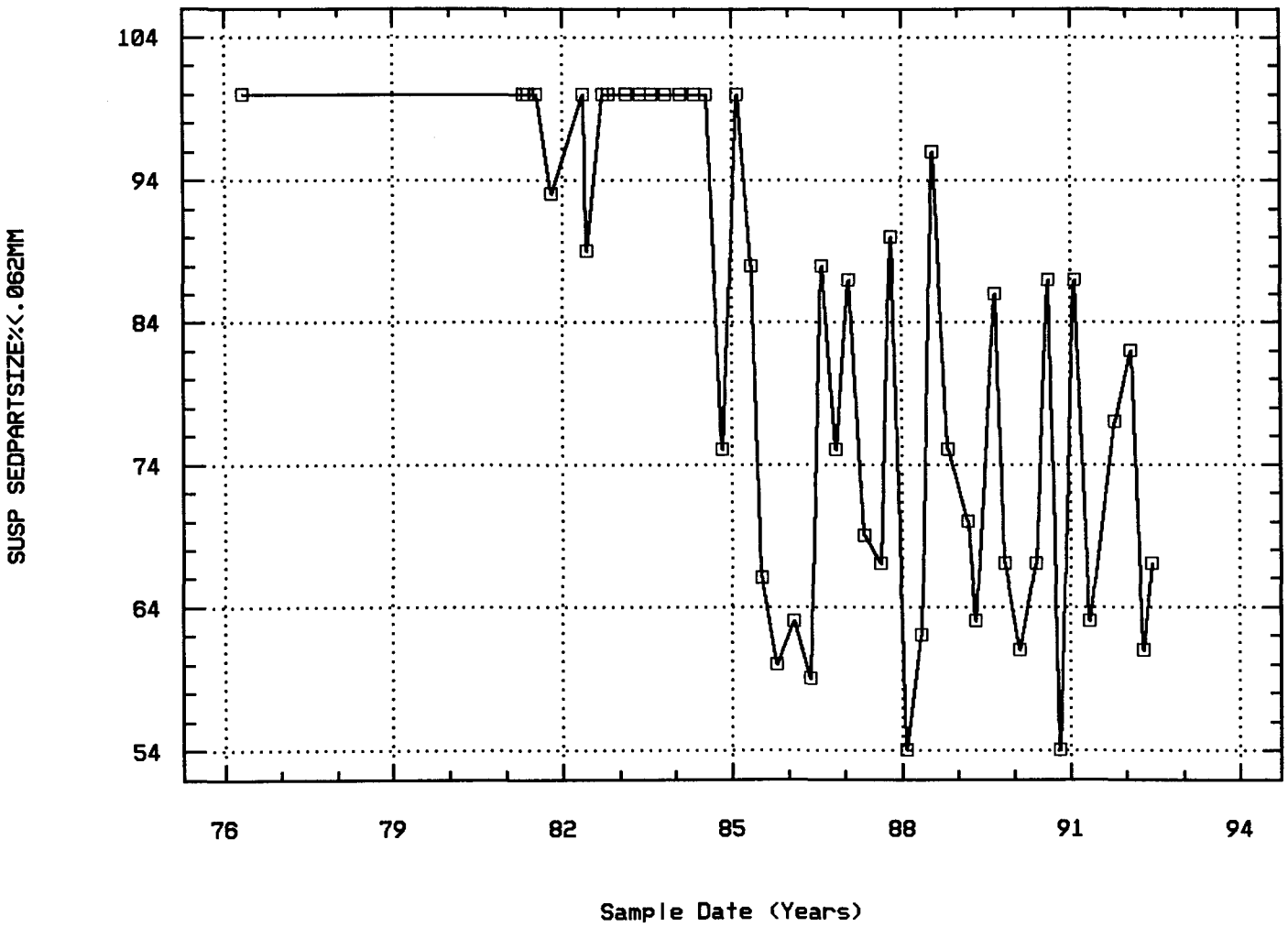
SOLIDS, DISSOLVED-TONS PER ACRE-FT



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 70331

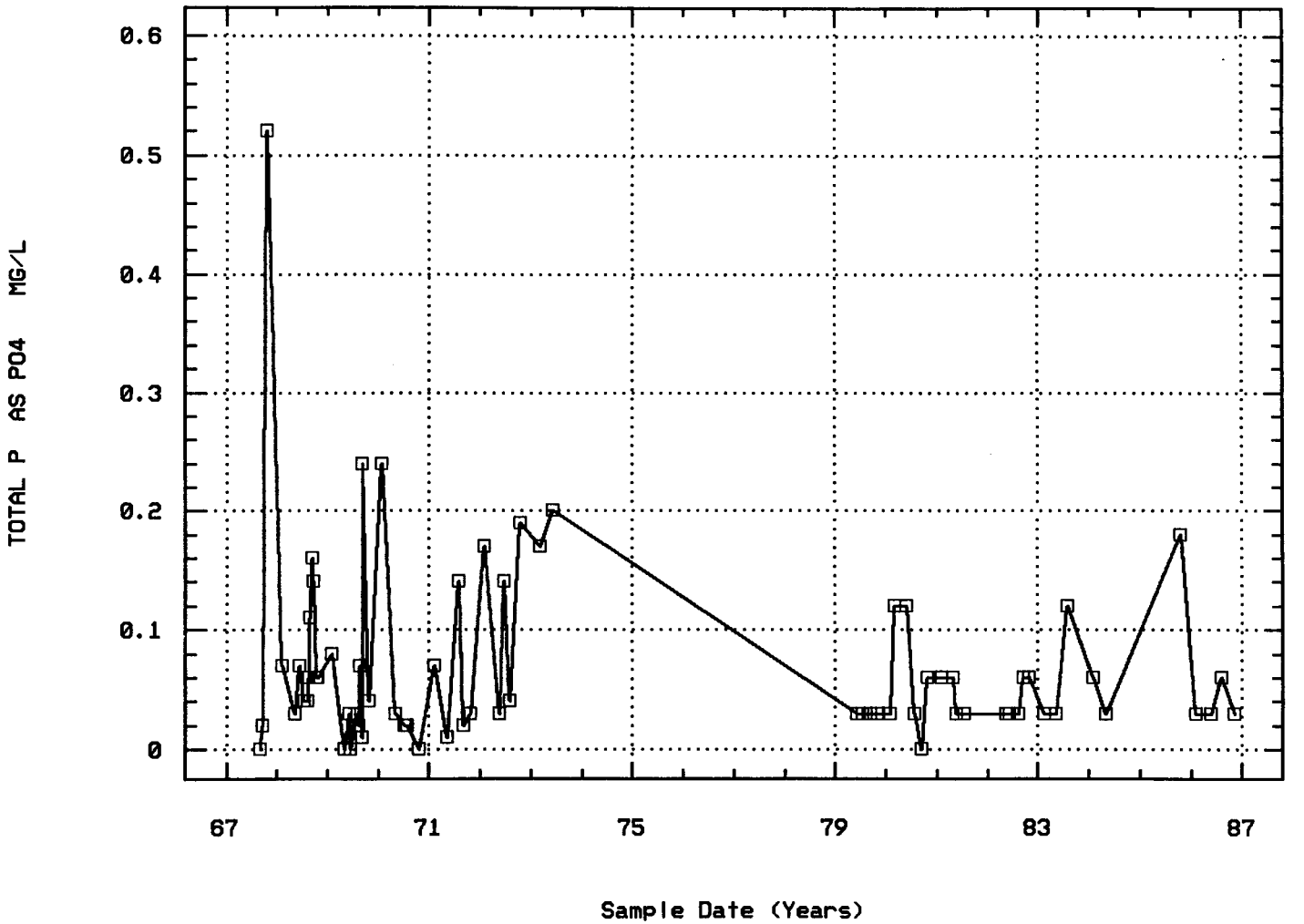
SUSPENDED SED SIEVE DIAMETER,% FINER TH



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 71886

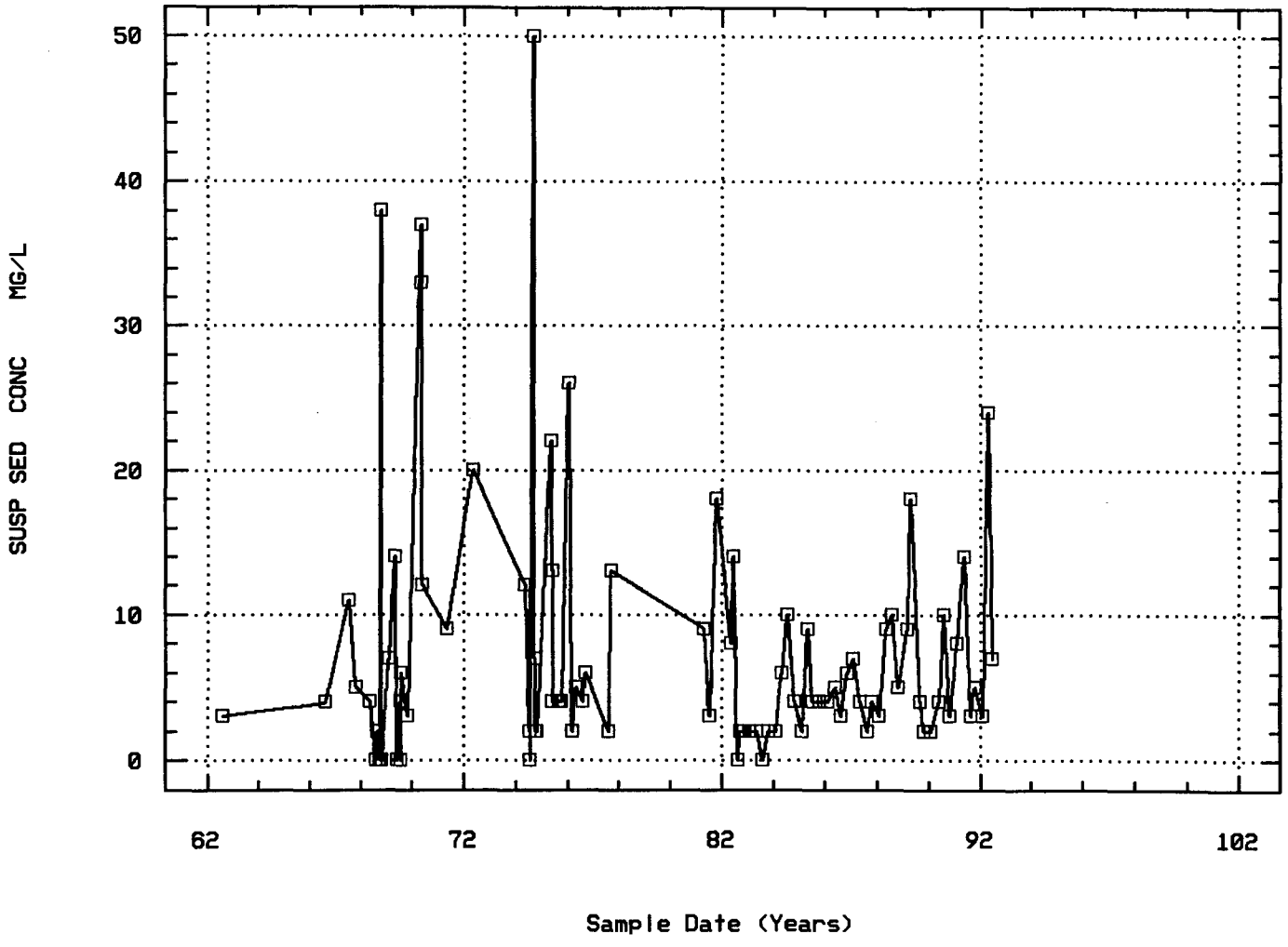
PHOSPHORUS, TOTAL, AS PO4 - MG/L



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 80154

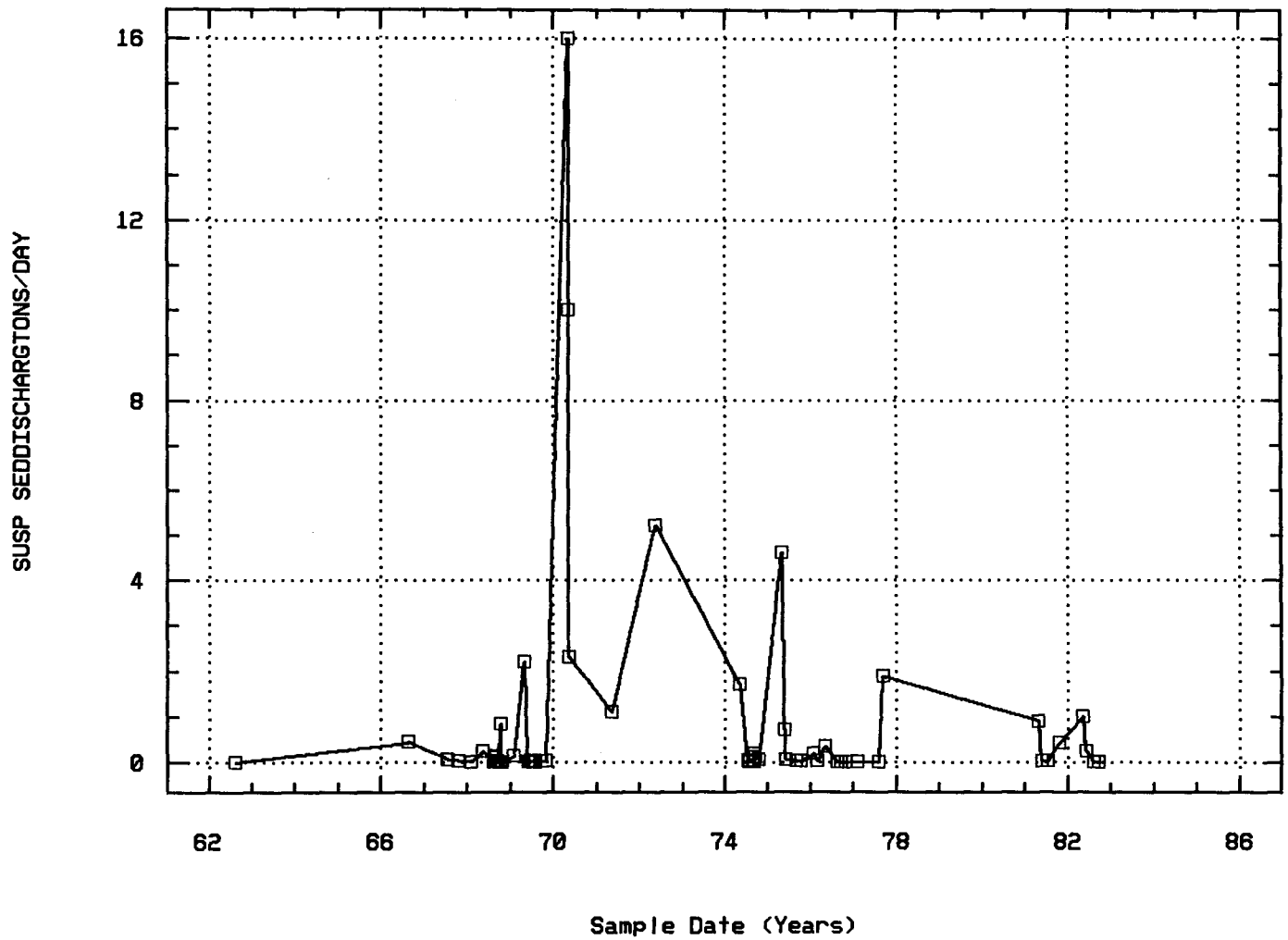
SUSP. SEDIMENT CONCENTRATION-EVAP. AT 1



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 80155

SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Annual Analysis for 1962 - Station ISR00005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/06/62-02/10/93	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 box-and-whisker plot

Annual Analysis for 1965 - Station ISR00005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/11/65-02/10/93	4	8.75	7.75	13.5	0.	32.083	5.664	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/06/62-02/10/93	4	8.	15.75	46.	1.	434.25	20.839	**	**	**	**
00065 STAGE, STREAM (FEET)		05/12/65-02/10/93	3	3.55	3.53	4.01	3.03	0.24	0.49	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		02/11/65-02/10/93	4	146.5	150.75	193.	117.	1214.917	34.856	**	**	**	**
00400p PH (STANDARD UNITS)		02/11/65-02/10/93	4	7.3	7.125	7.6	6.3	0.322	0.568	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)		02/11/65-02/10/93	4	7.3	6.805	7.6	6.3	0.459	0.677	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		02/11/65-02/10/93	4	0.05	0.157	0.501	0.025	0.053	0.23	**	**	**	**

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

Annual Analysis for 1966 - Station ISR00005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/11/65-02/10/93	2	9.	9.	13.	5.	32.	5.657	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/06/62-02/10/93	2	47.5	47.5	53.	42.	60.5	7.778	**	**	**	**
00065 STAGE, STREAM (FEET)		05/12/65-02/10/93	2	4.	4.	4.06	3.94	0.007	0.085	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		02/11/65-02/10/93	2	97.5	97.5	120.	75.	1012.5	31.82	**	**	**	**
00400p PH (STANDARD UNITS)		02/11/65-02/10/93	2	7.2	7.2	7.3	7.1	0.02	0.141	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)		02/11/65-02/10/93	2	7.189	7.189	7.3	7.1	0.02	0.142	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		02/11/65-02/10/93	2	0.065	0.065	0.079	0.05	0.	0.021	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 ISR00005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/11/65-02/10/93	7	6.	7.643	16.5	0.	31.476	5.61	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/06/62-02/10/93	6	2.	2.333	3.	2.	0.267	0.516	**	**	**	**
00065 STAGE, STREAM (FEET)		05/12/65-02/10/93	5	3.05	3.234	4.	2.84	0.203	0.451	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		02/11/65-02/10/93	7	170.	166.571	201.	75.	1906.286	43.661	**	**	**	**
00400p PH (STANDARD UNITS)		02/11/65-02/10/93	7	7.5	7.571	8.	7.2	0.059	0.243	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)		02/11/65-02/10/93	7	7.5	7.517	8.	7.2	0.063	0.25	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		02/11/65-02/10/93	7	0.032	0.03	0.063	0.01	0.	0.016	**	**	**	**

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

Annual Analysis for 1968 - Station ISR00005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/11/65-02/10/93	16	12.5	11.625	18.	0.	19.75	4.444	3.85	9.25	14.875	16.6
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/06/62-02/10/93	15	12.	14.2	39.	1.	100.171	10.009	4.	7.	22.	30.6
00065 STAGE, STREAM (FEET)		05/12/65-02/10/93	14	3.5	3.303	3.9	1.79	0.443	0.665	1.79	3.333	3.705	3.82
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		02/11/65-02/10/93	14	121.	120.5	202.	78.	1088.731	32.996	78.5	91.75	137.75	176.
00400p PH (STANDARD UNITS)		02/11/65-02/10/93	14	7.2	7.229	7.5	6.9	0.027	0.164	7.	7.1	7.4	7.45

** - 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

Annual Analysis for 1968 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p CONVERTED PH (STANDARD UNITS)	02/11/65-02/10/93	14	7.2	7.2	7.5	6.9	0.028	0.166	7.	7.1	7.4	7.45
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/65-02/10/93	14	0.063	0.063	0.126	0.032	0.001	0.025	0.036	0.04	0.079	0.103

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

Annual Analysis for 1969 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/11/65-02/10/93	13	14.	11.885	19.	0.	36.756	6.063	0.8	7.5	16.	18.2
00061 FLOW, STREAM, INSTANTANEOUS CFS	08/06/62-02/10/93	15	3.	7.8	57.	1.	192.886	13.888	1.	2.	7.	28.8
00065 STAGE, STREAM (FEET)	05/12/65-02/10/93	13	3.42	3.425	4.25	2.85	0.158	0.398	2.858	3.155	3.715	4.106
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/65-02/10/93	11	162.	157.273	219.	66.	2280.618	47.756	75.	118.	190.	217.
00400p PH (STANDARD UNITS)	02/11/65-02/10/93	11	7.4	7.464	8.	7.2	0.055	0.234	7.22	7.3	7.5	7.96
00400p CONVERTED PH (STANDARD UNITS)	02/11/65-02/10/93	11	7.4	7.418	8.	7.2	0.057	0.238	7.22	7.3	7.5	7.96
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/65-02/10/93	11	0.04	0.038	0.063	0.01	0.	0.015	0.011	0.032	0.05	0.061

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

Annual Analysis for 1970 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/11/65-02/10/93	8	4.75	8.625	20.5	0.	68.125	8.254	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	08/06/62-02/10/93	8	11.	46.5	157.	1.	3672.286	60.599	**	**	**	**
00065 STAGE, STREAM (FEET)	05/12/65-02/10/93	7	3.39	3.753	5.39	2.74	1.05	1.025	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/65-02/10/93	8	113.5	114.	201.	50.	3121.143	55.867	**	**	**	**
00400p PH (STANDARD UNITS)	02/11/65-02/10/93	8	7.05	7.1	7.7	6.7	0.174	0.417	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)	02/11/65-02/10/93	8	6.982	6.95	7.7	6.7	0.2	0.447	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/65-02/10/93	8	0.104	0.112	0.2	0.02	0.007	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 box-and-whisker plot

Annual Analysis for 1971 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/11/65-02/10/93	5	7.5	7.5	12.	0.	23.375	4.835	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	08/06/62-02/10/93	5	5.	15.8	50.	2.	412.7	20.315	**	**	**	**
00065 STAGE, STREAM (FEET)	05/12/65-02/10/93	4	3.435	3.498	4.06	3.06	0.206	0.453	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/65-02/10/93	5	132.	130.2	176.	71.	1490.2	38.603	**	**	**	**
00400p PH (STANDARD UNITS)	02/11/65-02/10/93	5	7.3	7.26	7.5	7.	0.043	0.207	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)	02/11/65-02/10/93	5	7.3	7.22	7.5	7.	0.045	0.212	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/65-02/10/93	5	0.05	0.06	0.1	0.032	0.001	0.029	**	**	**	**

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Annual Analysis for 1972 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/11/65-02/10/93	5	7.	8.3	15.	0.	38.95	6.241	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	08/06/62-02/10/93	5	5.	22.8	96.	3.	1675.7	40.935	**	**	**	**
00065 STAGE, STREAM (FEET)	05/12/65-02/10/93	5	3.21	3.39	4.4	3.	0.327	0.571	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/65-02/10/93	5	135.	125.6	158.	61.	1397.3	37.38	**	**	**	**

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Annual Analysis for 1972 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p PH (STANDARD UNITS)	02/11/65-02/10/93	5	7.3	7.26	7.5	7.	0.033	0.182	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)	02/11/65-02/10/93	5	7.3	7.229	7.5	7.	0.034	0.185	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/65-02/10/93	5	0.05	0.059	0.1	0.032	0.001	0.026	**	**	**	**

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Annual Analysis for 1973 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/11/65-02/10/93	3	9.	7.333	13.	0.	44.333	6.658	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	08/06/62-02/10/93	3	4.	8.	18.	2.	76.	8.718	**	**	**	**
00065 STAGE, STREAM (FEET)	05/12/65-02/10/93	2	3.355	3.355	3.63	3.08	0.151	0.389	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/65-02/10/93	3	144.	144.	190.	98.	2116.	46.	**	**	**	**
00400p PH (STANDARD UNITS)	02/11/65-02/10/93	3	7.3	7.3	7.4	7.2	0.01	0.1	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)	02/11/65-02/10/93	3	7.3	7.292	7.4	7.2	0.01	0.1	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/65-02/10/93	3	0.05	0.051	0.063	0.04	0.	0.012	**	**	**	**

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Annual Analysis for 1974 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/11/65-02/10/93	11	13.	9.727	18.5	0.	37.418	6.117	0.8	4.5	14.5	18.
00061 FLOW, STREAM, INSTANTANEOUS CFS	08/06/62-02/10/93	11	6.	11.182	53.	1.	243.364	15.6	1.2	2.	12.	47.6
00065 STAGE, STREAM (FEET)	05/12/65-02/10/93	10	3.035	3.162	4.11	2.82	0.15	0.388	2.822	2.87	3.318	4.042
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/65-02/10/93	6	145.	136.667	165.	80.	1206.667	34.737	**	**	**	**
00400p PH (STANDARD UNITS)	02/11/65-02/10/93	6	6.9	7.033	7.7	6.6	0.183	0.427	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)	02/11/65-02/10/93	6	6.9	6.896	7.7	6.6	0.205	0.453	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/65-02/10/93	6	0.126	0.127	0.251	0.02	0.008	0.089	**	**	**	**

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Annual Analysis for 1975 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/11/65-02/10/93	9	10.5	8.222	13.	0.	25.382	5.038	0.	3.	12.25	13.
00061 FLOW, STREAM, INSTANTANEOUS CFS	08/06/62-02/10/93	9	6.	14.222	77.	2.	584.694	24.18	2.	2.	13.5	77.
00065 STAGE, STREAM (FEET)	05/12/65-02/10/93	7	3.29	3.32	4.29	2.9	0.24	0.489	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/65-02/10/93	6	127.5	133.833	193.	75.	1846.167	42.967	**	**	**	**
00400p PH (STANDARD UNITS)	02/11/65-02/10/93	6	7.2	7.2	7.6	6.8	0.132	0.363	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)	02/11/65-02/10/93	6	7.189	7.082	7.6	6.8	0.149	0.386	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/65-02/10/93	6	0.065	0.083	0.158	0.025	0.004	0.062	**	**	**	**

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Annual Analysis for 1976 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/11/65-02/10/93	7	2.5	5.	17.	0.	40.083	6.331	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	08/06/62-02/10/93	6	2.	5.717	25.	0.5	91.162	9.548	**	**	**	**
00065 STAGE, STREAM (FEET)	05/12/65-02/10/93	7	3.13	3.029	3.74	2.61	0.155	0.394	**	**	**	**

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Annual Analysis for 1976 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/65-02/10/93	5	192.	172.	230.	85.	3404.5	58.348	**	**	**	**
00400p PH (STANDARD UNITS)	02/11/65-02/10/93	7	7.6	7.643	8.1	7.2	0.096	0.31	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)	02/11/65-02/10/93	7	7.6	7.553	8.1	7.2	0.106	0.325	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/65-02/10/93	7	0.025	0.028	0.063	0.008	0.	0.019	**	**	**	**

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Annual Analysis for 1977 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/11/65-02/10/93	6	8.	6.917	15.	0.	34.842	5.903	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	08/06/62-02/10/93	6	4.	13.367	54.	0.6	434.743	20.85	**	**	**	**
00065 STAGE, STREAM (FEET)	05/12/65-02/10/93	6	3.105	3.185	4.05	2.59	0.334	0.578	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/65-02/10/93	6	149.	157.333	246.	75.	4965.467	70.466	**	**	**	**
00400p PH (STANDARD UNITS)	02/11/65-02/10/93	6	7.35	7.233	7.6	6.7	0.107	0.327	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)	02/11/65-02/10/93	6	7.347	7.121	7.6	6.7	0.122	0.349	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/65-02/10/93	6	0.045	0.076	0.2	0.025	0.004	0.066	**	**	**	**

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Annual Analysis for 1978 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/11/65-02/10/93	6	8.	7.	15.	0.	36.9	6.075	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	08/06/62-02/10/93	6	6.5	16.	56.	2.	437.2	20.909	**	**	**	**
00065 STAGE, STREAM (FEET)	05/12/65-02/10/93	6	3.27	3.382	4.06	2.98	0.169	0.412	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/65-02/10/93	6	127.5	122.167	160.	70.	1022.167	31.971	**	**	**	**
00400p PH (STANDARD UNITS)	02/11/65-02/10/93	6	7.5	7.533	8.	7.	0.123	0.35	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)	02/11/65-02/10/93	6	7.489	7.415	8.	7.	0.139	0.373	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/65-02/10/93	6	0.032	0.038	0.1	0.01	0.001	0.033	**	**	**	**

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Annual Analysis for 1979 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/11/65-02/10/93	6	7.5	7.667	17.5	0.	59.667	7.724	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	08/06/62-02/10/93	6	4.5	9.333	28.	2.	109.467	10.463	**	**	**	**
00065 STAGE, STREAM (FEET)	05/12/65-02/10/93	6	3.12	3.213	3.73	2.86	0.15	0.387	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/65-02/10/93	6	146.	129.5	165.	73.	1654.7	40.678	**	**	**	**
00400p PH (STANDARD UNITS)	02/11/65-02/10/93	6	7.35	7.35	7.5	7.1	0.023	0.152	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)	02/11/65-02/10/93	6	7.347	7.327	7.5	7.1	0.024	0.154	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/65-02/10/93	6	0.045	0.047	0.079	0.032	0.	0.018	**	**	**	**

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Annual Analysis for 1980 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/11/65-02/10/93	6	6.	6.917	15.5	0.	47.842	6.917	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	08/06/62-02/10/93	6	4.5	5.667	14.	2.	20.267	4.502	**	**	**	**

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Annual Analysis for 1980 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00065 STAGE, STREAM (FEET)	05/12/65-02/10/93	6	3.115	3.13	3.55	2.79	0.075	0.273	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/65-02/10/93	6	132.	130.	168.	98.	886.8	29.779	**	**	**	**
00400p PH (STANDARD UNITS)	02/11/65-02/10/93	6	7.65	7.617	7.8	7.3	0.03	0.172	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)	02/11/65-02/10/93	6	7.647	7.585	7.8	7.3	0.031	0.176	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/65-02/10/93	6	0.023	0.026	0.05	0.016	0.	0.012	**	**	**	**

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Annual Analysis for 1981 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/11/65-02/10/93	6	5.	6.833	16.	0.	34.467	5.871	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	08/06/62-02/10/93	6	6.	10.467	37.	0.8	185.467	13.619	**	**	**	**
00065 STAGE, STREAM (FEET)	05/12/65-02/10/93	6	3.14	3.185	3.86	2.63	0.197	0.444	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/65-02/10/93	6	143.	138.5	205.	65.	2886.7	53.728	**	**	**	**
00400p PH (STANDARD UNITS)	02/11/65-02/10/93	6	7.6	7.617	7.9	7.4	0.058	0.24	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)	02/11/65-02/10/93	6	7.555	7.564	7.9	7.4	0.061	0.247	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/65-02/10/93	6	0.028	0.027	0.04	0.013	0.	0.014	**	**	**	**

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Annual Analysis for 1982 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/11/65-02/10/93	5	10.	8.9	13.	3.5	12.925	3.595	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	08/06/62-02/10/93	5	7.	15.2	46.	2.	344.7	18.566	**	**	**	**
00065 STAGE, STREAM (FEET)	05/12/65-02/10/93	5	3.3	3.298	3.95	2.78	0.248	0.498	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/65-02/10/93	5	116.	121.4	176.	67.	2377.8	48.763	**	**	**	**
00400p PH (STANDARD UNITS)	02/11/65-02/10/93	4	7.55	7.45	7.7	7.	0.11	0.332	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)	02/11/65-02/10/93	4	7.525	7.347	7.7	7.	0.124	0.352	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/65-02/10/93	4	0.03	0.045	0.1	0.02	0.001	0.038	**	**	**	**

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Annual Analysis for 1983 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/11/65-02/10/93	4	6.75	8.25	19.	0.5	60.417	7.773	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	08/06/62-02/10/93	4	10.5	15.25	38.	2.	266.25	16.317	**	**	**	**
00065 STAGE, STREAM (FEET)	05/12/65-02/10/93	4	3.39	3.378	3.89	2.84	0.206	0.453	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/65-02/10/93	4	111.	117.5	180.	68.	2633.	51.313	**	**	**	**
00400p PH (STANDARD UNITS)	02/11/65-02/10/93	4	7.6	7.625	7.8	7.5	0.016	0.126	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)	02/11/65-02/10/93	4	7.6	7.612	7.8	7.5	0.016	0.127	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/65-02/10/93	4	0.025	0.024	0.032	0.016	0.	0.006	**	**	**	**

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

Annual Analysis for 1984 - Station ISR00005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/11/65-02/10/93	15	1.5	7.733	17.	0.	61.781	7.86	0.9	1.5	17.	17.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/06/62-02/10/93	4	8.5	15.25	39.	5.	261.583	16.174	**	**	**	**
00065 STAGE, STREAM (FEET)		05/12/65-02/10/93	4	3.345	3.433	3.87	3.17	0.104	0.323	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		02/11/65-02/10/93	15	102.	93.467	128.	58.	1144.552	33.831	58.6	59.	128.	128.
00400p PH (STANDARD UNITS)		02/11/65-02/10/93	12	7.6	7.692	7.9	7.6	0.017	0.131	7.6	7.6	7.85	7.9
00400p CONVERTED PH (STANDARD UNITS)		02/11/65-02/10/93	12	7.6	7.675	7.9	7.6	0.017	0.132	7.6	7.6	7.85	7.9
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		02/11/65-02/10/93	12	0.025	0.021	0.025	0.013	0.	0.006	0.013	0.014	0.025	0.025

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

Annual Analysis for 1985 - Station ISR00005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/11/65-02/10/93	9	5.2	5.744	15.	0.	15.1	3.886	0.	5.	5.5	15.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/06/62-02/10/93	4	15.5	20.	47.	2.	438.	20.928	**	**	**	**
00065 STAGE, STREAM (FEET)		05/12/65-02/10/93	4	3.465	3.445	3.95	2.9	0.238	0.488	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		02/11/65-02/10/93	9	70.	86.111	169.	65.	1225.361	35.005	65.	69.5	95.	169.
00400p PH (STANDARD UNITS)		02/11/65-02/10/93	9	7.6	7.656	8.	7.6	0.018	0.133	7.6	7.6	7.65	8.
00400p CONVERTED PH (STANDARD UNITS)		02/11/65-02/10/93	9	7.6	7.641	8.	7.6	0.018	0.134	7.6	7.6	7.65	8.
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		02/11/65-02/10/93	9	0.025	0.023	0.025	0.01	0.	0.005	0.01	0.023	0.025	0.025

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

Annual Analysis for 1986 - Station ISR00005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/11/65-02/10/93	4	8.	7.75	15.	0.	45.75	6.764	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/06/62-02/10/93	4	5.	5.75	9.	4.	4.917	2.217	**	**	**	**
00065 STAGE, STREAM (FEET)		05/12/65-02/10/93	3	3.18	3.24	3.37	3.17	0.013	0.113	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		02/11/65-02/10/93	4	128.	125.	146.	98.	420.	20.494	**	**	**	**
00400p PH (STANDARD UNITS)		02/11/65-02/10/93	4	7.7	7.675	7.8	7.5	0.016	0.126	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)		02/11/65-02/10/93	4	7.7	7.661	7.8	7.5	0.016	0.127	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		02/11/65-02/10/93	4	0.02	0.022	0.032	0.016	0.	0.007	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 ISR00005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/11/65-02/10/93	4	6.75	7.625	17.	0.	56.229	7.499	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/06/62-02/10/93	4	4.	6.75	18.	1.	58.917	7.676	**	**	**	**
00065 STAGE, STREAM (FEET)		05/12/65-02/10/93	1	3.65	3.65	3.65	3.65	0.	0.	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		02/11/65-02/10/93	4	135.5	145.	200.	109.	1682.	41.012	**	**	**	**
00400p PH (STANDARD UNITS)		02/11/65-02/10/93	4	7.615	7.645	7.95	7.4	0.074	0.273	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)		02/11/65-02/10/93	4	7.577	7.585	7.95	7.4	0.079	0.282	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		02/11/65-02/10/93	4	0.027	0.026	0.04	0.011	0.	0.015	**	**	**	**

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

Annual Analysis for 1988 - Station ISR00005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/11/65-02/10/93	4	7.5	8.	16.5	0.5	56.5	7.517	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/06/62-02/10/93	4	11.	12.475	27.	0.9	159.103	12.614	**	**	**	**
00065 STAGE, STREAM (FEET)		05/12/65-02/10/93	4	3.39	3.3	3.76	2.66	0.251	0.501	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		02/11/65-02/10/93	3	134.	148.333	218.	93.	4060.333	63.721	**	**	**	**
00400p PH (STANDARD UNITS)		02/11/65-02/10/93	4	7.815	7.805	8.08	7.51	0.054	0.233	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)		02/11/65-02/10/93	4	7.815	7.758	8.08	7.51	0.057	0.24	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		02/11/65-02/10/93	4	0.015	0.017	0.031	0.008	0.	0.01	**	**	**	**

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

Annual Analysis for 1989 - Station ISR00005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/11/65-02/10/93	13	15.	11.577	15.	0.	38.16	6.177	0.	7.75	15.	15.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/06/62-02/10/93	4	6.	27.75	97.	2.	2137.583	46.234	**	**	**	**
00065 STAGE, STREAM (FEET)		05/12/65-02/10/93	11	3.08	3.195	4.35	2.86	0.157	0.397	2.9	3.08	3.08	4.144
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		02/11/65-02/10/93	13	149.	144.615	180.	57.	789.256	28.094	89.8	149.	149.	173.2
00400p PH (STANDARD UNITS)		02/11/65-02/10/93	13	7.78	7.728	7.95	7.29	0.029	0.169	7.354	7.765	7.78	7.882
00400p CONVERTED PH (STANDARD UNITS)		02/11/65-02/10/93	13	7.78	7.69	7.95	7.29	0.03	0.174	7.354	7.765	7.78	7.882
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		02/11/65-02/10/93	13	0.017	0.02	0.051	0.011	0.	0.011	0.013	0.017	0.017	0.045

** - Less than 9 observations ## - Computed with 50% or 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 ISR00005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/11/65-02/10/93	4	7.	7.5	16.	0.	49.	7.	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/06/62-02/10/93	4	9.5	9.475	18.	0.9	86.236	9.286	**	**	**	**
00065 STAGE, STREAM (FEET)		05/12/65-02/10/93	4	3.545	3.383	3.61	2.83	0.139	0.372	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		02/11/65-02/10/93	4	133.	131.5	187.	73.	3519.	59.321	**	**	**	**
00400p PH (STANDARD UNITS)		02/11/65-02/10/93	4	7.675	7.683	7.94	7.44	0.045	0.213	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)		02/11/65-02/10/93	4	7.669	7.644	7.94	7.44	0.047	0.218	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		02/11/65-02/10/93	4	0.021	0.023	0.036	0.011	0.	0.011	**	**	**	**

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

Annual Analysis for 1991 - Station ISR00005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/11/65-02/10/93	10	4.	5.1	17.5	0.5	20.378	4.514	0.85	4.	4.25	16.25
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/06/62-02/10/93	10	7.	11.	58.	1.	278.	16.673	1.1	5.75	7.	52.9
00065 STAGE, STREAM (FEET)		05/12/65-02/10/93	4	3.075	3.238	4.05	2.75	0.319	0.565	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		02/11/65-02/10/93	10	124.	129.8	200.	64.	1200.4	34.647	70.	124.	134.5	196.6
00400p PH (STANDARD UNITS)		02/11/65-02/10/93	10	7.7	7.643	7.75	7.1	0.037	0.192	7.157	7.693	7.703	7.746
00400p CONVERTED PH (STANDARD UNITS)		02/11/65-02/10/93	10	7.7	7.589	7.75	7.1	0.04	0.2	7.157	7.692	7.703	7.746
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		02/11/65-02/10/93	10	0.02	0.026	0.079	0.018	0.	0.019	0.018	0.02	0.02	0.074

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

Annual Analysis for 1992 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/11/65-02/10/93	4	2.	4.5	14.	0.	41.667	6.455	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	08/06/62-02/10/93	4	8.	24.5	79.	3.	1336.333	36.556	**	**	**	**
00065 STAGE, STREAM (FEET)	05/12/65-02/10/93	4	3.17	3.325	4.06	2.9	0.269	0.519	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/65-02/10/93	4	113.5	108.75	147.	61.	1282.917	35.818	**	**	**	**
00400p PH (STANDARD UNITS)	02/11/65-02/10/93	4	7.61	7.658	7.97	7.44	0.058	0.241	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)	02/11/65-02/10/93	4	7.596	7.612	7.97	7.44	0.061	0.246	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/65-02/10/93	4	0.025	0.024	0.036	0.011	0.	0.012	**	**	**	**

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

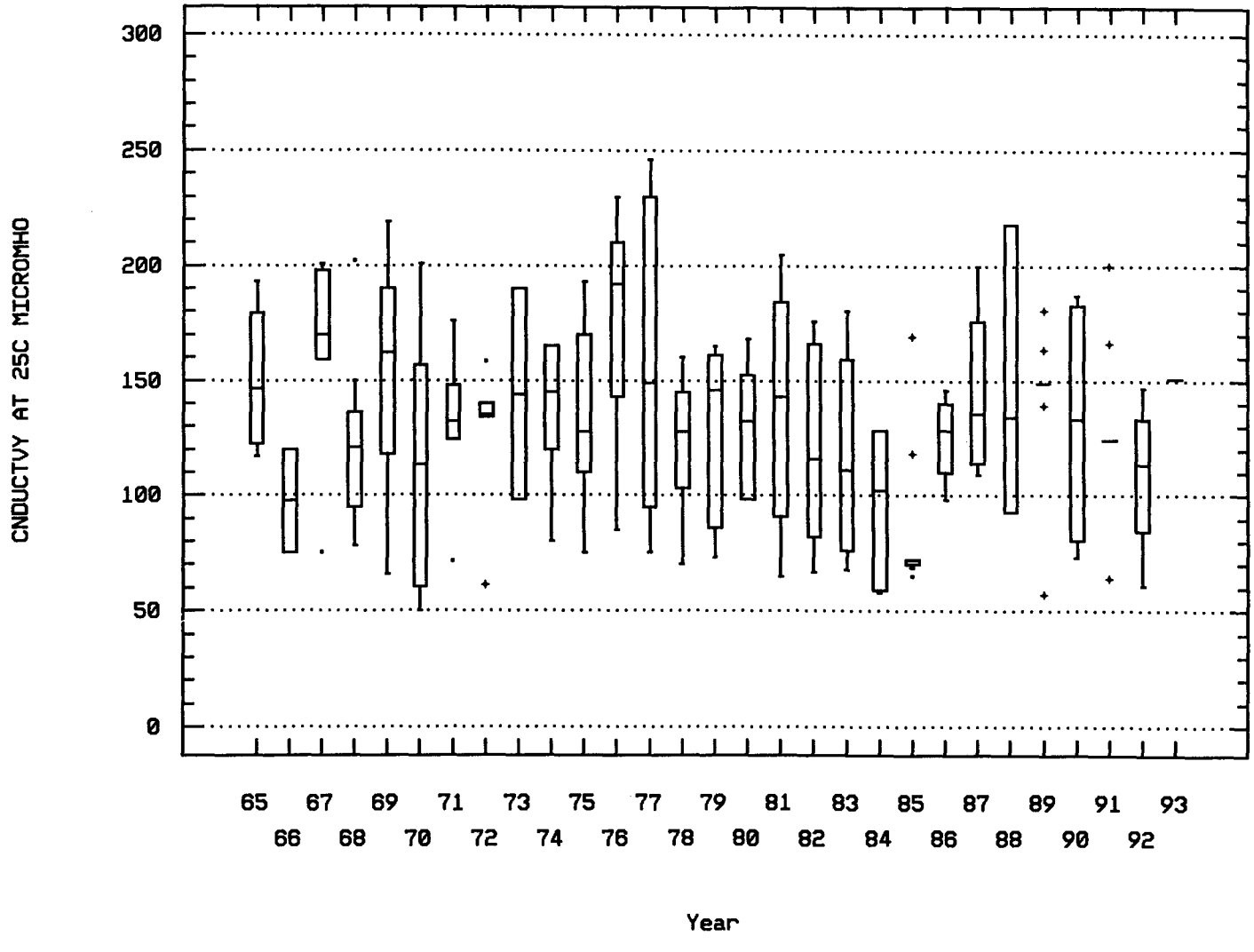
Annual Analysis for 1993 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/11/65-02/10/93	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	08/06/62-02/10/93	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00065 STAGE, STREAM (FEET)	05/12/65-02/10/93	1	2.97	2.97	2.97	2.97	0.	0.	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/65-02/10/93	1	151.	151.	151.	151.	0.	0.	**	**	**	**
00400p PH (STANDARD UNITS)	02/11/65-02/10/93	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)	02/11/65-02/10/93	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/65-02/10/93	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**

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Station: ISRO0005 Parameter Code: 00095

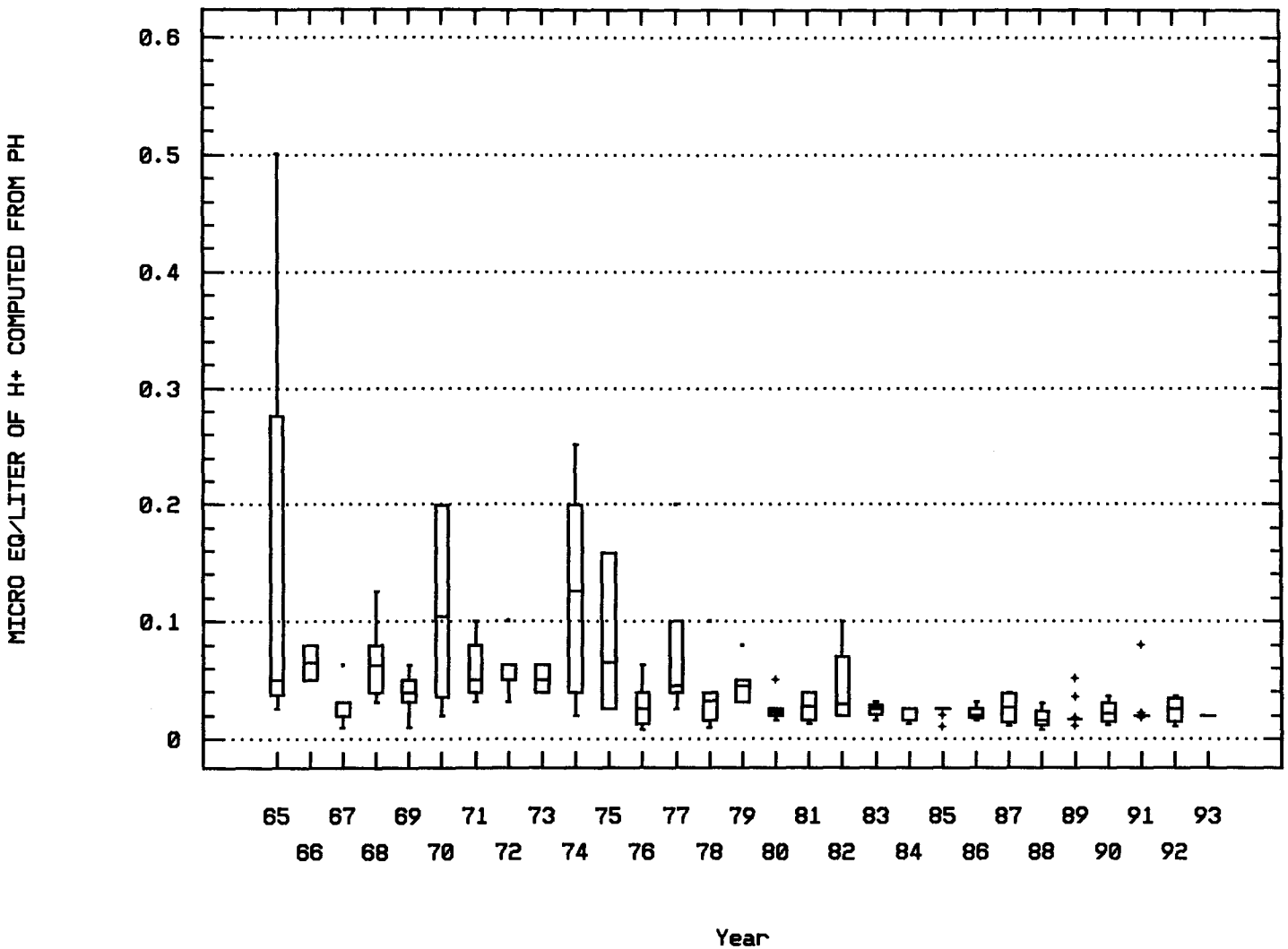
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00400

MICRO EQ/LITER OF H+ COMPUTED FROM PH



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Seasonal Analysis for Season #1: 1/01 to 2/29 - Station ISRO0005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/11/65-02/10/93	26	0.	0.058	0.5	0.	0.027	0.163	0.	0.	0.	0.5
00061 FLOW, STREAM, INSTANTANEOUS CFS	08/06/62-02/10/93	25	3.	4.064	26.	0.6	24.186	4.918	1.	2.	5.	7.
00065 STAGE, STREAM (FEET)	05/12/65-02/10/93	25	3.03	2.958	3.46	1.79	0.163	0.404	2.27	2.885	3.2	3.324
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/21/82-02/10/93	10	1.4	1.42	2.	1.	0.093	0.305	1.01	1.1	1.625	1.97
00080 COLOR (PLATINUM-COBALT UNITS)	05/12/65-10/07/73	6	50.	48.333	70.	30.	256.667	16.021	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/65-02/10/93	25	152.	156.64	246.	110.	1009.49	31.772	120.2	134.	173.5	201.4
00300p OXYGEN, DISSOLVED MG/L	09/27/67-02/10/93	19	13.3	13.053	16.8	9.8	2.178	1.476	10.9	12.2	13.6	14.4
00301p OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/27/67-02/16/83	12	91.	89.333	117.	68.	163.152	12.773	70.4	78.25	95.75	111.3
00400p PH (STANDARD UNITS)	02/11/65-02/10/93	26	7.5	7.525	7.9	7.1	0.038	0.195	7.27	7.4	7.7	7.8
00400p CONVERTED PH (STANDARD UNITS)	02/11/65-02/10/93	26	7.5	7.483	7.9	7.1	0.04	0.2	7.27	7.4	7.7	7.8
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/65-02/10/93	26	0.032	0.033	0.079	0.013	0.	0.015	0.016	0.02	0.04	0.054
00403 PH, LAB, STANDARD UNITS SU	10/22/80-02/10/93	11	7.8	7.691	7.9	7.2	0.061	0.247	7.22	7.6	7.9	7.9
00403 CONVERTED PH, LAB, STANDARD UNITS	10/22/80-02/10/93	11	7.8	7.617	7.9	7.2	0.067	0.259	7.22	7.6	7.9	7.9
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/22/80-02/10/93	11	0.016	0.024	0.063	0.013	0.	0.017	0.013	0.013	0.025	0.061
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	02/11/65-10/26/88	18	66.5	66.389	103.	0.	472.252	21.731	42.3	57.75	79.75	91.3
00440p BICARBONATE ION (MG/L AS HCO3)	02/11/65-02/03/88	16	80.5	81.625	125.	0.	812.25	28.5	39.9	67.75	100.	114.5
00445p CARBONATE ION (MG/L AS CO3)	02/11/65-02/03/88	17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00608 NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	02/03/81-02/10/93	11	0.03	0.044	0.17	0.005	0.002	0.044	0.01	0.03	0.04	0.148
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/03/81-10/21/92	6	0.025	0.022	0.03	0.	0.	0.012	**	**	**	**
00618 NITRATE NITROGEN, DISSOLVED (MG/L AS N)	02/11/65-06/06/73	8	0.16	0.146	0.25	0.	0.005	0.073	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/03/81-02/10/93	11	0.4	0.43	0.7	0.23	0.025	0.158	0.244	0.3	0.5	0.7
00630p NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/19/74-10/21/92	10	0.115	0.124	0.18	0.09	0.001	0.03	0.09	0.098	0.145	0.178
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/24/79-02/10/93	12	0.1	0.12	0.2	0.05	0.003	0.05	0.062	0.1	0.175	0.2
00665p PHOSPHORUS, TOTAL (MG/L AS P)	02/11/65-02/10/93	25	0.01	0.024	0.16	0.005	0.001	0.033	0.005	0.01	0.02	0.068
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	02/03/81-02/10/93	11	0.01	0.009	0.02	0.005	0.	0.005	0.005	0.005	0.01	0.018
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/24/79-02/10/93	10##	0.005	0.005	0.005	0.	0.	0.002	0.001	0.005	0.005	0.005
00900p HARDNESS, TOTAL (MG/L AS CACO3)	02/11/65-02/03/87	18	73.	76.333	120.	53.	242.824	15.583	58.4	66.25	83.25	98.4
00902p HARDNESS, NON-CARBONATE (MG/L AS CACO3)	02/11/65-02/03/87	16	6.5	7.188	16.	3.	10.963	3.311	3.	5.25	8.75	13.2
00915p CALCIUM, DISSOLVED (MG/L AS CA)	09/06/67-02/10/93	23	20.	19.783	32.	13.	16.723	4.089	14.4	17.	21.	25.6
00925p MAGNESIUM, DISSOLVED (MG/L AS MG)	09/06/67-02/10/93	23	5.8	6.	9.3	4.6	1.173	1.083	4.88	5.3	6.4	7.74
00930p SODIUM, DISSOLVED (MG/L AS NA)	09/06/67-02/10/93	23	3.7	3.765	7.6	2.4	1.254	1.12	2.44	3.	4.2	5.12
00931p SODIUM ADSORPTION RATIO	09/27/67-02/03/87	16	0.2	0.188	0.3	0.1	0.003	0.05	0.1	0.2	0.2	0.23
00932p SODIUM, PERCENT	09/27/67-02/03/87	16	10.	9.75	14.	6.	3.133	1.77	7.4	9.	10.	12.6
00935p POTASSIUM, DISSOLVED (MG/L AS K)	09/06/67-02/10/93	23	0.5	0.478	0.8	0.1	0.023	0.151	0.3	0.4	0.6	0.7
00940p CHLORIDE,TOTAL IN WATER MG/L	02/11/65-02/10/93	25	4.	4.48	13.	2.	4.51	2.124	2.6	3.	5.	6.4
00945p SULFATE, TOTAL (MG/L AS SO4)	02/11/65-02/10/93	25	7.	7.	16.	3.	9.25	3.041	3.6	5.	8.	12.4
00950p FLUORIDE, DISSOLVED (MG/L AS F)	02/11/65-02/10/93	24	0.1	0.104	0.3	0.	0.004	0.064	0.05	0.05	0.1	0.2
00955p SILICA, DISSOLVED (MG/L AS SIO2)	09/06/67-02/10/93	23	15.	14.826	16.	13.	1.059	1.029	13.	14.	16.	16.
01000p ARSENIC, DISSOLVED (UG/L AS AS)	10/15/70-08/13/91	5##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	10/22/68-05/12/82	1##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01007 BARIUM, TOTAL (UG/L AS BA)	05/06/74-05/12/82	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01010 BERYLLIUM, DISSOLVED (UG/L AS BE)	10/24/79-08/13/91	5##	0.25	0.62	2.1	0.25	0.685	0.827	**	**	**	**
01025p CADMIUM, DISSOLVED (UG/L AS CD)	10/15/70-08/13/91	5##	0.5	0.6	1.	0.5	0.05	0.224	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	05/10/68-05/12/82	1##	1.	1.	1.	1.	0.	0.	**	**	**	**
01030p CHROMIUM, DISSOLVED (UG/L AS CR)	10/14/71-08/13/91	5##	0.5	0.4	0.5	0.	0.05	0.224	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	05/10/68-05/12/82	1##	10.	10.	10.	10.	0.	0.	**	**	**	**
01040p COPPER, DISSOLVED (UG/L AS CU)	10/14/71-08/13/91	5##	0.5	0.8	2.	0.	0.575	0.758	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	05/10/68-05/12/82	1##	1.	1.	1.	1.	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	05/10/68-05/12/82	1	430.	430.	430.	430.	0.	0.	**	**	**	**
01049p LEAD, DISSOLVED (UG/L AS PB)	10/15/70-08/13/91	5##	2.5	1.6	2.5	0.	1.55	1.245	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)	05/10/68-05/12/82	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	05/10/68-05/12/82	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	05/06/74-05/12/82	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
01090p ZINC, DISSOLVED (UG/L AS ZN)	10/15/70-08/13/91	5	12.	13.7	34.	1.5	152.2	12.337	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	05/10/68-05/12/82	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01147 SELENIUM, TOTAL (UG/L AS SE)	05/06/74-05/12/82	1##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
03515p BETA, DISSOLVED GROSS, AS CS-137, PC/L	10/17/67-10/21/92	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
03516p BETA, SUSPENDED GROSS, AS CS-137, PC/L	10/17/67-10/21/92	1##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
09511p RADIUM 226, DISSOLVED, RADON METHOD	10/17/67-10/21/92	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**

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

Seasonal Analysis for Season #1: 1/01 to 2/29 - Station ISR00005

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	02/03/70-09/17/80	6	117.	502.5	1700.	39.	481240.7	693.715	**	**	**	**
31501 LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	02/03/70-09/17/80	6	2.064	2.262	3.23	1.591	0.486	0.697	**	**	**	**
31501 GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3			GEOMETRIC MEAN =	182.801								
31625p FECAL COLIFORM, MF,M-FC, 0.7 UM	10/20/76-02/10/93	12	2.	2.833	10.	0.5	7.561	2.75	0.5	1.	3.75	8.8
31625p LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	10/20/76-02/10/93	12	0.301	0.288	1.	-0.301	0.158	0.398	-0.301	0.	0.571	0.933
31625p GM FECAL COLIFORM, MF,M-FC, 0.7 UM			GEOMETRIC MEAN =	1.942								
31673p FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/20/76-10/21/92	12	2.5	36.75	350.	0.5	9875.614	99.376	0.5	1.25	26.	255.5
31673p LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/20/76-10/21/92	12	0.389	0.656	2.544	-0.301	0.719	0.848	-0.301	0.075	1.379	2.244
31673p GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR			GEOMETRIC MEAN =	4.533								
70300p RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/11/65-02/10/93	26	111.	112.385	158.	82.	331.686	18.212	93.5	97.5	121.5	144.
70301p SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/06/67-02/03/87	16	95.	98.625	145.	72.	347.317	18.636	74.1	87.25	103.75	131.
70302p SOLIDS, DISSOLVED-TONS PER DAY	02/11/65-02/16/83	17	0.73	1.3	8.85	0.26	4.007	2.002	0.308	0.43	1.435	3.114
70303p SOLIDS, DISSOLVED-TONS PER ACRE-FT	02/11/65-02/16/83	17	0.16	0.158	0.21	0.11	0.001	0.028	0.118	0.14	0.175	0.202
70331p SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	05/04/76-06/16/92	9	87.	81.556	100.	54.	325.778	18.049	54.	62.	100.	100.
71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	02/11/65-06/06/73	8	0.7	0.638	1.1	0.	0.106	0.325	**	**	**	**
71886p PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/06/67-10/29/86	10	0.065	0.084	0.24	0.03	0.005	0.068	0.03	0.03	0.103	0.233
71890p MERCURY, DISSOLVED (UG/L AS HG)	07/11/70-08/13/91	5##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	10/15/70-05/12/82	1##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
80030p ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	10/17/67-10/21/92	1##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
80040p ALPHA,SUSPENDED GROSS, AS URANIUM-NATURAL, UG/L	10/17/67-10/21/92	1##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
80050p BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	10/17/67-10/21/92	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
80060p BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L	10/17/67-10/21/92	1##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
80154p SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	08/06/62-06/16/92	13	3.	5.231	26.	1.	44.526	6.673	1.	2.	7.	18.8
80155p SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	08/06/62-09/22/82	4	0.06	0.078	0.19	0.	0.009	0.094	**	**	**	**

** - Less than 9 observations ## - Computed 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: 3/01 to 4/20 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/11/65-02/10/93	8	0.	0.125	0.5	0.	0.054	0.231	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	08/06/62-02/10/93	8	2.	2.825	6.	0.6	2.931	1.712	**	**	**	**
00065 STAGE, STREAM (FEET)	05/12/65-02/10/93	7	2.98	2.996	3.42	2.64	0.065	0.255	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/21/82-02/10/93	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	05/12/65-10/07/73	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/65-02/10/93	7	165.	171.571	230.	140.	930.952	30.512	**	**	**	**
00300p OXYGEN, DISSOLVED MG/L	09/27/67-02/10/93	8	12.75	12.475	13.8	10.2	1.482	1.217	**	**	**	**
00301p OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/27/67-02/16/83	7	89.	86.286	95.	71.	69.905	8.361	**	**	**	**
00400p PH (STANDARD UNITS)	02/11/65-02/10/93	8	7.425	7.394	7.8	6.8	0.096	0.31	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)	02/11/65-02/10/93	8	7.424	7.286	7.8	6.8	0.109	0.331	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/65-02/10/93	8	0.038	0.052	0.158	0.016	0.002	0.046	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	10/22/80-02/10/93	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	10/22/80-02/10/93	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/22/80-02/10/93	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	02/11/65-10/26/88	7	74.	73.571	95.	53.	219.619	14.82	**	**	**	**
00440p BICARBONATE ION (MG/L AS HCO3)	02/11/65-02/03/88	5	80.	88.8	116.	65.	485.7	22.039	**	**	**	**
00445p CARBONATE ION (MG/L AS CO3)	02/11/65-02/03/88	5	0.	0.	0.	0.	0.	0.	**	**	**	**
00608 NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	02/03/81-02/10/93	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/03/81-10/21/92	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00618 NITRATE NITROGEN, DISSOLVED (MG/L AS N)	02/11/65-06/06/73	1	0.32	0.32	0.32	0.32	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/03/81-02/10/93	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00630p NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/19/74-10/21/92	6	0.145	0.145	0.2	0.1	0.001	0.034	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/24/79-02/10/93	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
00665p PHOSPHORUS, TOTAL (MG/L AS P)	02/11/65-02/10/93	8	0.015	0.021	0.06	0.005	0.	0.019	**	**	**	**
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	02/03/81-02/10/93	1##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/24/79-02/10/93	2##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
00900p HARDNESS, TOTAL (MG/L AS CACO3)	02/11/65-02/03/87	7	76.	80.429	110.	57.	288.286	16.979	**	**	**	**

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Seasonal Analysis for Season #2: 3/01 to 4/20 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00902p HARDNESS, NON-CARBONATE (MG/L AS CACO3)	02/11/65-02/03/87	7	5.	6.286	11.	2.	13.238	3.638	**	**	**	**
00915p CALCIUM, DISSOLVED (MG/L AS CA)	09/06/67-02/10/93	8	20.5	21.	29.	15.	15.714	3.964	**	**	**	**
00925p MAGNESIUM, DISSOLVED (MG/L AS MG)	09/06/67-02/10/93	8	6.4	6.625	8.9	4.7	1.711	1.308	**	**	**	**
00930p SODIUM, DISSOLVED (MG/L AS NA)	09/06/67-02/10/93	8	4.05	4.175	6.6	2.8	1.396	1.182	**	**	**	**
00931p SODIUM ADSORPTION RATIO	09/27/67-02/03/87	7	0.2	0.214	0.3	0.2	0.001	0.038	**	**	**	**
00932p SODIUM, PERCENT	09/27/67-02/03/87	7	10.	10.143	12.	8.	2.143	1.464	**	**	**	**
00935p POTASSIUM, DISSOLVED (MG/L AS K)	09/06/67-02/10/93	8	0.6	0.613	0.8	0.4	0.016	0.125	**	**	**	**
00940p CHLORIDE,TOTAL IN WATER MG/L	02/11/65-02/10/93	8	4.	5.	12.	2.	10.286	3.207	**	**	**	**
00945p SULFATE, TOTAL (MG/L AS SO4)	02/11/65-02/10/93	8	6.	6.375	11.	4.	4.839	2.2	**	**	**	**
00950p FLUORIDE, DISSOLVED (MG/L AS F)	02/11/65-02/10/93	8	0.1	0.1	0.3	0.	0.008	0.089	**	**	**	**
00955p SILICA, DISSOLVED (MG/L AS SIO2)	09/06/67-02/10/93	8	15.	14.875	16.	14.	0.696	0.835	**	**	**	**
01000p ARSENIC, DISSOLVED (UG/L AS AS)	10/15/70-08/13/91	1##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01010 BERYLLIUM, DISSOLVED (UG/L AS BE)	10/24/79-08/13/91	1##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01025p CADMIUM, DISSOLVED (UG/L AS CD)	10/15/70-08/13/91	1##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030p CHROMIUM, DISSOLVED (UG/L AS CR)	10/14/71-08/13/91	1##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040p COPPER, DISSOLVED (UG/L AS CU)	10/14/71-08/13/91	1##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	05/10/68-05/12/82	1	710.	710.	710.	710.	0.	0.	**	**	**	**
01049p LEAD, DISSOLVED (UG/L AS PB)	10/15/70-08/13/91	1##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01090p ZINC, DISSOLVED (UG/L AS ZN)	10/15/70-08/13/91	1	5.	5.	5.	5.	0.	0.	**	**	**	**
31501 COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	02/03/70-09/17/80	6	24.	37.833	99.	2.	1732.167	41.619	**	**	**	**
31501 LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,	02/03/70-09/17/80	6	1.253	1.164	1.996	0.301	0.591	0.769	**	**	**	**
31501 GM COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,3			GEOMETRIC MEAN =	14.586								
31625p FECAL COLIFORM, MF,M-FC, 0.7 UM	10/20/76-02/10/93	5	1.	2.4	6.	0.5	6.175	2.485	**	**	**	**
31625p LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	10/20/76-02/10/93	5	0.	0.156	0.778	-0.301	0.257	0.507	**	**	**	**
31625p GM FECAL COLIFORM, MF,M-FC, 0.7 UM			GEOMETRIC MEAN =	1.431								
31673p FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/20/76-10/21/92	5##	0.5	1.1	3.	0.5	1.175	1.084	**	**	**	**
31673p LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/20/76-10/21/92	5##	-0.301	-0.085	0.477	-0.301	0.116	0.34	**	**	**	**
31673p GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR			GEOMETRIC MEAN =	0.822								
70300p RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/11/65-02/10/93	8	121.	122.625	147.	100.	195.125	13.969	**	**	**	**
70301p SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/06/67-02/03/87	7	102.	102.571	133.	78.	318.619	17.85	**	**	**	**
70302p SOLIDS, DISSOLVED-TONS PER DAY	02/11/65-02/16/83	7	0.68	0.834	1.59	0.24	0.237	0.486	**	**	**	**
70303p SOLIDS, DISSOLVED-TONS PER ACRE-FT	02/11/65-02/16/83	7	0.16	0.167	0.2	0.14	0.	0.019	**	**	**	**
70331p SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	05/04/76-06/16/92	1	70.	70.	70.	70.	0.	0.	**	**	**	**
71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	02/11/65-06/06/73	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
71886p PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/06/67-10/29/86	2	0.145	0.145	0.17	0.12	0.001	0.035	**	**	**	**
71890p MERCURY, DISSOLVED (UG/L AS HG)	07/11/70-08/13/91	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
80154p SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	08/06/62-06/16/92	2	5.5	5.5	9.	2.	24.5	4.95	**	**	**	**
80155p SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	08/06/62-09/22/82	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**

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

Seasonal Analysis for Season #3: 4/21 to 8/10 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/11/65-02/10/93	90	13.	11.272	20.5	0.	29.422	5.424	1.55	6.25	15.	17.
00061 FLOW, STREAM, INSTANTANEOUS CFS	08/06/62-02/10/93	70	8.	24.24	157.	0.9	983.133	31.355	2.	3.75	39.	69.7
00065 STAGE, STREAM (FEET)	05/12/65-02/10/93	71	3.35	3.489	5.39	2.66	0.283	0.532	2.876	3.08	3.89	4.1
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/21/82-02/10/93	16	1.95	2.475	5.6	1.	2.033	1.426	1.21	1.6	3.425	5.46
00080 COLOR (PLATINUM-COBALT UNITS)	05/12/65-10/07/73	22	75.	79.545	120.	50.	449.784	21.208	50.	67.5	100.	117.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/65-02/10/93	84	118.5	113.429	218.	50.	1779.742	42.187	60.	71.5	149.	167.5
00300p OXYGEN, DISSOLVED MG/L	09/27/67-02/10/93	61	10.	10.236	14.1	7.6	2.583	1.607	8.1	9.2	11.6	12.38
00301p OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/27/67-02/16/83	32	92.5	93.125	109.	77.	60.887	7.803	83.3	88.	98.75	104.
00400p PH (STANDARD UNITS)	02/11/65-02/10/93	81	7.6	7.488	8.1	6.3	0.149	0.386	7.	7.2	7.78	7.948
00400p CONVERTED PH (STANDARD UNITS)	02/11/65-02/10/93	81	7.6	7.287	8.1	6.3	0.19	0.436	7.	7.2	7.78	7.948
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/65-02/10/93	81	0.025	0.052	0.501	0.008	0.005	0.069	0.011	0.017	0.063	0.1
00403 PH, LAB, STANDARD UNITS SU	10/22/80-02/10/93	22	7.65	7.595	8.1	7.	0.096	0.309	7.2	7.275	7.825	7.97
00403 CONVERTED PH, LAB, STANDARD UNITS	10/22/80-02/10/93	22	7.647	7.488	8.1	7.	0.108	0.328	7.2	7.275	7.825	7.97

** - Less than 9 observations ## - Computed 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: 4/21 to 8/10 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/22/80-02/10/93	22	0.023	0.032	0.1	0.008	0.001	0.024	0.011	0.015	0.053	0.063
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	02/11/65-10/26/88	43	52.	49.395	85.	0.	461.34	21.479	24.4	30.	68.	80.4
00440p BICARBONATE ION (MG/L AS HCO3)	02/11/65-02/03/88	33	64.	61.909	104.	24.	685.21	26.177	29.4	36.5	84.5	101.2
00445p CARBONATE ION (MG/L AS CO3)	02/11/65-02/03/88	34	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/17/67-10/20/77	3	70.	70.667	78.	64.	49.333	7.024	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/17/67-10/20/77	3	8.	11.	23.	2.	117.	10.817	**	**	**	**
00608 NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	02/03/81-02/10/93	23	0.03	0.043	0.37	0.005	0.005	0.073	0.005	0.02	0.04	0.05
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/03/81-10/21/92	15	0.04	0.037	0.06	0.01	0.	0.013	0.016	0.03	0.05	0.054
00618 NITRATE NITROGEN, DISSOLVED (MG/L AS N)	02/11/65-06/06/73	24	0.14	0.172	0.34	0.07	0.006	0.078	0.09	0.11	0.245	0.295
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/03/81-02/10/93	22	0.5	0.572	1.	0.4	0.022	0.149	0.421	0.5	0.603	0.8
00630p NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/19/74-10/21/92	22	0.04	0.05	0.18	0.02	0.001	0.032	0.025	0.04	0.05	0.07
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/24/79-02/10/93	25##	0.05	0.048	0.1	0.02	0.	0.015	0.025	0.045	0.05	0.058
00665p PHOSPHORUS, TOTAL (MG/L AS P)	02/11/65-02/10/93	55	0.01	0.015	0.06	0.	0.	0.014	0.005	0.01	0.02	0.04
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	02/03/81-02/10/93	23##	0.005	0.008	0.02	0.005	0.	0.004	0.005	0.005	0.01	0.016
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/24/79-02/10/93	18##	0.005	0.004	0.01	0.	0.	0.002	0.	0.005	0.005	0.006
00900p HARDNESS, TOTAL (MG/L AS CACO3)	02/11/65-02/03/87	44	60.	57.818	92.	29.	391.873	19.796	32.	39.25	73.75	87.
00902p HARDNESS, NON-CARBONATE (MG/L AS CACO3)	02/11/65-02/03/87	37	7.	7.297	14.	0.	11.715	3.423	3.	5.	10.	12.2
00915p CALCIUM, DISSOLVED (MG/L AS CA)	09/06/67-02/10/93	54	14.5	15.459	28.	7.2	37.075	6.089	8.45	9.575	21.	24.
00925p MAGNESIUM, DISSOLVED (MG/L AS MG)	09/06/67-02/10/93	54	4.35	4.367	7.8	2.2	2.348	1.532	2.6	2.95	5.425	6.65
00930p SODIUM, DISSOLVED (MG/L AS NA)	09/06/67-02/10/93	54	2.4	2.62	5.5	0.9	1.419	1.191	1.35	1.6	3.325	4.4
00931p SODIUM ADSORPTION RATIO	09/27/67-02/03/87	39	0.1	0.146	0.3	0.1	0.003	0.055	0.1	0.1	0.2	0.2
00932p SODIUM, PERCENT	09/27/67-02/03/87	39	9.	8.718	13.	6.	2.366	1.538	7.	8.	10.	10.
00935p POTASSIUM, DISSOLVED (MG/L AS K)	09/06/67-02/10/93	54	0.5	0.48	0.8	0.2	0.024	0.156	0.3	0.375	0.6	0.7
00940p CHLORIDE,TOTAL IN WATER MG/L	02/11/65-02/10/93	60	2.	2.613	9.	0.	4.041	2.01	0.82	1.	4.	5.9
00945p SULFATE, TOTAL (MG/L AS SO4)	02/11/65-02/10/93	58	6.	6.781	18.	0.	13.262	3.642	2.9	4.75	9.	12.
00950p FLUORIDE, DISSOLVED (MG/L AS F)	02/11/65-02/10/93	57	0.1	0.149	0.5	0.	0.014	0.119	0.05	0.05	0.2	0.3
00955p SILICA, DISSOLVED (MG/L AS SIO2)	09/06/67-02/10/93	55	9.1	9.7	15.	5.9	5.108	2.26	7.32	7.9	11.	13.4
01000p ARSENIC, DISSOLVED (UG/L AS AS)	10/15/70-08/13/91	14##	0.5	0.571	1.	0.	0.071	0.267	0.25	0.5	0.625	1.
01002 ARSENIC, TOTAL (UG/L AS AS)	10/22/68-05/12/82	12	0.5	0.542	1.	0.	0.203	0.45	0.	0.	1.	1.
01007 BARIUM, TOTAL (UG/L AS BA)	05/06/74-05/12/82	9##	50.	61.111	100.	50.	486.111	22.048	50.	50.	75.	100.
01010 BERYLLIUM, DISSOLVED (UG/L AS BE)	10/24/79-08/13/91	14##	0.25	0.596	4.	0.25	0.976	0.988	0.25	0.25	0.5	2.3
01025p CADMIUM, DISSOLVED (UG/L AS CD)	10/15/70-08/13/91	14##	0.5	0.679	3.	0.5	0.446	0.668	0.5	0.5	0.5	1.75
01027 CADMIUM, TOTAL (UG/L AS CD)	05/10/68-05/12/82	12##	0.	0.292	1.	0.	0.203	0.45	0.	0.	0.875	1.
01030p CHROMIUM, DISSOLVED (UG/L AS CR)	10/14/71-08/13/91	14##	0.5	1.25	9.	0.	5.452	2.335	0.25	0.5	0.5	6.
01034 CHROMIUM, TOTAL (UG/L AS CR)	05/10/68-05/12/82	13	10.	9.231	30.	0.	91.026	9.541	0.	0.	15.	26.
01040p COPPER, DISSOLVED (UG/L AS CU)	10/14/71-08/13/91	14	2.	2.821	5.	0.5	1.985	1.409	1.25	2.	4.25	5.
01042 COPPER, TOTAL (UG/L AS CU)	05/10/68-05/12/82	13	4.	5.769	20.	0.	29.026	5.388	0.4	2.	8.5	16.4
01045 IRON, TOTAL (UG/L AS FE)	05/10/68-05/12/82	10	350.	376.	610.	200.	15982.222	126.421	207.	277.5	480.	600.
01049p LEAD, DISSOLVED (UG/L AS PB)	10/15/70-08/13/91	14##	2.5	3.286	13.	0.	11.335	3.367	0.25	0.875	5.	9.5
01051 LEAD, TOTAL (UG/L AS PB)	05/10/68-05/12/82	13	4.	5.862	22.	0.	43.616	6.604	0.	1.1	10.5	18.8
01055 MANGANESE, TOTAL (UG/L AS MN)	05/10/68-05/12/82	10	20.	18.5	40.	5.	89.167	9.443	5.5	10.	20.	38.
01077 SILVER, TOTAL (UG/L AS AG)	05/06/74-05/12/82	9##	0.	0.056	0.5	0.	0.028	0.167	0.	0.	0.	0.5
01090p ZINC, DISSOLVED (UG/L AS ZN)	10/15/70-08/13/91	14	7.5	13.393	59.	1.5	263.738	16.24	1.5	1.875	18.75	44.5
01092 ZINC, TOTAL (UG/L AS ZN)	05/10/68-05/12/82	13	10.	30.462	200.	8.	2685.436	51.821	8.8	10.	25.	136.
01147 SELENIUM, TOTAL (UG/L AS SE)	05/06/74-05/12/82	9##	0.5	0.778	4.	0.	1.507	1.228	0.	0.25	0.5	4.
03515p BETA, DISSOLVED GROSS, AS CS-137, PC/L	10/17/67-10/21/92	10	1.35	2.26	8.1	0.8	5.043	2.246	0.81	0.9	3.125	7.64
03516p BETA, SUSPENDED GROSS, AS CS-137, PC/L	10/17/67-10/21/92	10##	0.55	0.75	2.2	0.2	0.416	0.645	0.2	0.275	1.15	2.11
09511p RADIUM 226, DISSOLVED, RADON METHOD	10/17/67-10/21/92	10	0.025	0.029	0.06	0.01	0.	0.015	0.011	0.02	0.035	0.059
31501 COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	02/03/70-09/17/80	17	140.	759.882	8800.	23.	4379365.86	2092.693	24.6	55.	550.	2640.
31501 LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,	02/03/70-09/17/80	17	2.146	2.236	3.944	1.362	0.452	0.673	1.391	1.724	2.74	3.222
31501 GM COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,3			GEOMETRIC MEAN =	172.032								
31625p FECAL COLIFORM, MF,M-FC, 0.7 UM	10/20/76-02/10/93	29	19.	46.138	310.	2.	4133.695	64.294	3.	7.	61.	124.
31625p LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	10/20/76-02/10/93	29	1.279	1.314	2.491	0.301	0.354	0.595	0.477	0.841	1.785	2.093
31625p GM FECAL COLIFORM, MF,M-FC, 0.7 UM			GEOMETRIC MEAN =	20.603								
31673p FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/20/76-10/21/92	29	22.	145.362	2500.	0.5	212387.034	460.855	0.5	3.	98.5	250.
31673p LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/20/76-10/21/92	29	1.342	1.252	3.398	-0.301	0.94	0.969	-0.301	0.452	1.99	2.398
31673p GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR			GEOMETRIC MEAN =	17.885								
39330 ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39340 GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	10/17/67-10/20/81	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: 4/21 to 8/10 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39360 DDD IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39365 DDE IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39370 DDT IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39380 DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39390 ENDRIN IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39410 HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39730 2,4-D IN WHOLE WATER SAMPLE (UG/L)	05/10/68-10/20/81	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39740 2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	05/10/68-10/20/81	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39760 SILVEX IN WHOLE WATER SAMPLE (UG/L)	05/10/68-10/20/81	2	0.	0.	0.	0.	0.	0.	**	**	**	**
70300p RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/11/65-02/10/93	59	92.	93.203	153.	48.	807.648	28.419	60.	65.	116.	136.
70301p SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/06/67-02/03/87	38	74.	72.816	112.	36.	531.668	23.058	44.8	51.5	90.25	108.2
70302p SOLIDS, DISSOLVED-TONS PER DAY	02/11/65-02/16/83	42	2.075	4.68	26.3	0.52	29.327	5.415	0.681	1.175	6.588	12.78
70303p SOLIDS, DISSOLVED-TONS PER ACRE-FT	02/11/65-02/16/83	43	0.13	0.131	0.21	0.07	0.001	0.038	0.08	0.1	0.16	0.18
70331p SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	05/04/76-06/16/92	23	88.	83.696	100.	59.	279.949	16.732	61.4	66.	100.	100.
71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	02/11/65-06/06/73	24	0.6	0.754	1.5	0.3	0.118	0.344	0.4	0.5	1.075	1.3
71886p PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/06/67-10/29/86	35	0.03	0.047	0.2	0.	0.002	0.044	0.016	0.03	0.04	0.128
71890p MERCURY, DISSOLVED (UG/L AS HG)	07/11/70-08/13/91	16##	0.05	0.181	1.2	0.05	0.102	0.32	0.05	0.05	0.088	0.85
71900 MERCURY, TOTAL (UG/L AS HG)	10/15/70-05/12/82	10##	0.25	0.315	1.2	0.05	0.103	0.321	0.055	0.213	0.263	1.11
80030p ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	10/17/67-10/21/92	10##	0.225	0.4	1.5	0.2	0.173	0.416	0.2	0.2	0.4	1.42
80040p ALPHA,SUSPENDED GROSS, AS URANIUM-NATURAL, UG/L	10/17/67-10/21/92	10##	0.2	0.36	1.1	0.2	0.103	0.32	0.2	0.2	0.425	1.07
80050p BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	10/17/67-10/21/92	10	1.15	1.87	6.4	0.7	2.987	1.728	0.71	0.875	2.425	6.04
80060p BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L	10/17/67-10/21/92	10##	0.45	0.67	1.9	0.2	0.318	0.564	0.2	0.2	1.05	1.83
80154p SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	08/06/62-06/16/92	48	5.5	8.188	37.	0.	68.156	8.256	0.	2.25	11.75	20.2
80155p SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	08/06/62-09/22/82	31	0.06	1.513	16.	0.	11.667	3.416	0.	0.02	1.1	5.08

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

Seasonal Analysis for Season #4: 8/11 to 12/31 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/11/65-02/10/93	73	7.	8.386	19.	2.	22.083	4.699	3.2	4.	13.	15.6
00061 FLOW, STREAM, INSTANTANEOUS CFS	08/06/62-02/10/93	69	7.	9.045	54.	0.5	94.42	9.717	1.	2.	12.	21.
00065 STAGE, STREAM (FEET)	05/12/65-02/10/93	55	3.33	3.299	4.05	2.61	0.136	0.369	2.796	3.	3.61	3.744
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/21/82-02/10/93	13	1.9	2.754	14.	1.3	11.571	3.402	1.34	1.45	2.3	9.4
00080 COLOR (PLATINUM-COBALT UNITS)	05/12/65-10/07/73	20	90.	92.	170.	40.	1795.789	42.377	50.	50.	127.5	168.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/11/65-02/10/93	66	127.	136.	230.	69.	1867.754	43.218	72.7	106.5	167.	200.
00300p OXYGEN, DISSOLVED MG/L	09/27/67-02/10/93	48	11.9	11.275	13.6	7.3	1.938	1.392	9.2	10.2	12.275	12.6
00301p OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/27/67-02/16/83	26	94.	92.115	107.	71.	76.026	8.719	78.4	85.75	98.	105.3
00400p PH (STANDARD UNITS)	02/11/65-02/10/93	66	7.5	7.456	7.95	6.6	0.076	0.275	7.07	7.3	7.678	7.75
00400p CONVERTED PH (STANDARD UNITS)	02/11/65-02/10/93	66	7.5	7.351	7.95	6.6	0.087	0.295	7.07	7.3	7.678	7.75
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/11/65-02/10/93	66	0.032	0.045	0.251	0.011	0.002	0.041	0.018	0.021	0.05	0.086
00403 PH, LAB, STANDARD UNITS SU	10/22/80-02/10/93	19	7.7	7.663	8.5	7.1	0.099	0.315	7.3	7.4	7.8	8.1
00403 CONVERTED PH, LAB, STANDARD UNITS	10/22/80-02/10/93	19	7.7	7.57	8.5	7.1	0.108	0.329	7.3	7.4	7.8	8.1
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/22/80-02/10/93	19	0.02	0.027	0.079	0.003	0.	0.018	0.008	0.016	0.04	0.05
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	02/11/65-10/26/88	41	57.	61.415	106.	0.	596.599	24.425	36.	49.5	82.5	95.
00440p BICARBONATE ION (MG/L AS HCO3)	02/11/65-02/03/88	34	79.	78.382	129.	0.	975.092	31.226	39.5	62.	104.	117.
00445p CARBONATE ION (MG/L AS CO3)	02/11/65-02/03/88	34	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/17/67-10/20/77	10	115.	115.	140.	88.	273.111	16.526	88.4	105.5	130.	139.
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/17/67-10/20/77	10	1.	1.35	4.	0.5	1.169	1.081	0.5	0.5	2.	3.8
00608 NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	02/03/81-02/10/93	18	0.032	0.031	0.06	0.005	0.	0.019	0.005	0.01	0.05	0.051
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/03/81-10/21/92	12	0.03	0.032	0.05	0.005	0.	0.013	0.01	0.023	0.04	0.05
00618 NITRATE NITROGEN, DISSOLVED (MG/L AS N)	02/11/65-06/06/73	19	0.11	0.129	0.32	0.	0.004	0.064	0.04	0.11	0.14	0.2
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/03/81-02/10/93	17	0.6	0.625	1.3	0.25	0.098	0.313	0.274	0.4	0.75	1.3
00630p NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/19/74-10/21/92	22	0.05	0.055	0.21	0.01	0.002	0.049	0.01	0.018	0.06	0.138
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/24/79-02/10/93	21##	0.05	0.049	0.1	0.02	0.	0.017	0.02	0.05	0.05	0.068
00665p PHOSPHORUS, TOTAL (MG/L AS P)	02/11/65-02/10/93	49	0.01	0.022	0.17	0.	0.001	0.028	0.005	0.01	0.02	0.052
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	02/03/81-02/10/93	17	0.01	0.015	0.06	0.005	0.	0.016	0.005	0.005	0.02	0.052

** - Less than 9 observations ## - Computed 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 #4: 8/11 to 12/31 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/24/79-02/10/93	18##	0.005	0.006	0.02	0.	0.	0.006	0.	0.005	0.005	0.02
00900p HARDNESS, TOTAL (MG/L AS CACO3)	02/11/65-02/03/87	41	70.	72.927	120.	40.	384.42	19.607	45.4	59.	87.5	100.
00902p HARDNESS, NON-CARBONATE (MG/L AS CACO3)	02/11/65-02/03/87	37	8.	8.	16.	1.	14.167	3.764	3.	5.	10.	14.2
00915p CALCIUM, DISSOLVED (MG/L AS CA)	09/06/67-02/10/93	51	19.	19.176	30.	11.	29.068	5.391	12.	16.	23.	27.
00925p MAGNESIUM, DISSOLVED (MG/L AS MG)	09/06/67-02/10/93	51	4.9	5.631	10.	3.1	2.912	1.706	3.52	4.2	7.3	7.98
00930p SODIUM, DISSOLVED (MG/L AS NA)	09/06/67-02/10/93	51	2.9	3.433	8.2	1.7	2.107	1.451	2.1	2.3	4.2	5.5
00931p SODIUM ADSORPTION RATIO	09/27/67-02/03/87	37	0.2	0.173	0.4	0.1	0.005	0.069	0.1	0.1	0.2	0.22
00932p SODIUM, PERCENT	09/27/67-02/03/87	38	9.	9.132	15.	7.	2.28	1.51	8.	8.	10.	11.1
00935p POTASSIUM, DISSOLVED (MG/L AS K)	09/06/67-02/10/93	51	0.6	0.598	1.2	0.05	0.05	0.223	0.376	0.5	0.8	0.88
00940p CHLORIDE,TOTAL IN WATER MG/L	02/11/65-02/10/93	53	3.	3.823	15.	0.8	7.573	2.752	1.	2.	5.	7.
00945p SULFATE, TOTAL (MG/L AS SO4)	02/11/65-02/10/93	52	6.	6.712	22.	0.	18.435	4.294	2.3	5.	8.	13.4
00950p FLUORIDE, DISSOLVED (MG/L AS F)	02/11/65-02/10/93	52	0.1	0.158	0.9	0.	0.022	0.149	0.05	0.05	0.2	0.3
00955p SILICA, DISSOLVED (MG/L AS SIO2)	09/06/67-02/10/93	51	12.	12.549	16.	10.	2.213	1.487	11.	11.	14.	14.
01000p ARSENIC, DISSOLVED (UG/L AS AS)	10/15/70-08/13/91	17##	0.5	1.882	12.	0.5	11.954	3.457	0.5	0.5	1.	10.4
01002 ARSENIC, TOTAL (UG/L AS AS)	10/22/68-05/12/82	11	0.5	2.045	10.	0.	10.723	3.275	0.1	0.5	1.	9.4
01007 BARIUM, TOTAL (UG/L AS BA)	05/06/74-05/12/82	9##	50.	38.889	50.	0.	329.861	18.162	0.	25.	50.	50.
01010 BERYLLIUM, DISSOLVED (UG/L AS BE)	10/24/79-08/13/91	15##	0.25	0.447	2.	0.	0.241	0.491	0.15	0.25	0.5	1.4
01025p CADMIUM, DISSOLVED (UG/L AS CD)	10/15/70-08/13/91	17##	0.5	0.588	1.	0.	0.07	0.264	0.4	0.5	0.75	1.
01027 CADMIUM, TOTAL (UG/L AS CD)	05/10/68-05/12/82	12##	0.	1.292	10.	0.	8.112	2.848	0.	0.	1.75	7.6
01030p CHROMIUM, DISSOLVED (UG/L AS CR)	10/14/71-08/13/91	15##	0.5	1.933	8.	0.	6.067	2.463	0.3	0.5	3.	7.4
01034 CHROMIUM, TOTAL (UG/L AS CR)	05/10/68-05/12/82	12##	10.	10.	30.	0.	72.727	8.528	0.	2.5	10.	27.
01040p COPPER, DISSOLVED (UG/L AS CU)	10/14/71-08/13/91	16	3.	3.75	10.	1.	5.8	2.408	1.7	2.	5.	8.6
01042 COPPER, TOTAL (UG/L AS CU)	05/10/68-05/12/82	12	3.	3.75	10.	0.	16.205	4.025	0.	0.	8.5	10.
01045 IRON, TOTAL (UG/L AS FE)	05/10/68-05/12/82	15	600.	626.	1000.	380.	36225.714	190.331	392.	470.	700.	970.
01049p LEAD, DISSOLVED (UG/L AS PB)	10/15/70-08/13/91	17##	2.5	2.735	10.	0.	9.066	3.011	0.4	0.5	2.75	10.
01051 LEAD, TOTAL (UG/L AS PB)	05/10/68-05/12/82	11	3.	6.727	33.	0.	95.218	9.758	0.	0.	10.	28.6
01055 MANGANESE, TOTAL (UG/L AS MN)	05/10/68-05/12/82	15	20.	20.667	40.	0.	174.524	13.211	3.	10.	30.	40.
01077 SILVER, TOTAL (UG/L AS AG)	05/06/74-05/12/82	9##	0.	0.167	1.	0.	0.125	0.354	0.	0.	0.25	1.
01090p ZINC, DISSOLVED (UG/L AS ZN)	10/15/70-08/13/91	17	10.	19.765	120.	2.	797.691	28.243	2.	5.5	20.	61.6
01092 ZINC, TOTAL (UG/L AS ZN)	05/10/68-05/12/82	11	10.	11.818	20.	10.	16.364	4.045	10.	10.	10.	20.
01147 SELENIUM, TOTAL (UG/L AS SE)	05/06/74-05/12/82	9##	0.5	0.389	0.5	0.	0.049	0.22	0.	0.25	0.5	0.5
03515p BETA, DISSOLVED GROSS, AS CS-137, PC/L	10/17/67-10/21/92	24	2.2	2.538	5.6	0.9	1.749	1.322	1.15	1.35	3.175	4.7
03516p BETA, SUSPENDED GROSS, AS CS-137, PC/L	10/17/67-10/21/92	24##	0.2	0.485	4.	0.2	0.617	0.785	0.2	0.2	0.3	0.95
09511p RADIUM 226, DISSOLVED, RADON METHOD	10/17/67-10/21/92	23	0.04	0.048	0.18	0.01	0.002	0.041	0.01	0.03	0.05	0.122
31501 COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	02/03/70-09/17/80	13	220.	398.615	1500.	48.	218126.256	467.04	60.8	102.	545.	1380.
31501 LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,	02/03/70-09/17/80	13	2.342	2.367	3.176	1.681	0.208	0.456	1.77	2.007	2.683	3.137
31501 GM COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,3			GEOMETRIC MEAN =	232.927								
31625p FECAL COLIFORM, MF,M-FC, 0.7 UM	10/20/76-02/10/93	25	43.	115.62	740.	0.5	34879.61	186.761	3.6	12.	96.	430.
31625p LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	10/20/76-02/10/93	25	1.633	1.546	2.869	-0.301	0.594	0.771	0.552	1.078	1.978	2.616
31625p GM FECAL COLIFORM, MF,M-FC, 0.7 UM			GEOMETRIC MEAN =	35.159								
31673p FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/20/76-10/21/92	23	38.	75.13	240.	2.	5731.482	75.707	7.	17.	110.	222.
31673p LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/20/76-10/21/92	23	1.58	1.615	2.38	0.301	0.302	0.549	0.819	1.23	2.041	2.346
31673p GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR			GEOMETRIC MEAN =	41.221								
39330 ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	14	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.003
39333 ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/22/68-10/20/81	12##	0.025	0.046	0.1	0.	0.002	0.05	0.	0.	0.1	0.1
39340 GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	10/17/67-10/20/81	14	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.003
39343 GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	10/22/68-10/20/81	12##	0.025	0.046	0.1	0.	0.002	0.05	0.	0.	0.1	0.1
39350 CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	10/15/70-10/20/81	11	0.	0.005	0.05	0.	0.	0.015	0.	0.	0.	0.04
39351 CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	10/15/70-10/20/81	10	0.	0.2	0.5	0.	0.067	0.258	0.	0.	0.5	0.5
39360 DDD IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	14	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.003
39363 DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/22/68-10/20/81	12##	0.025	0.046	0.1	0.	0.002	0.05	0.	0.	0.1	0.1
39365 DDE IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	14	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.003
39368 DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/22/68-10/20/81	12##	0.025	0.046	0.1	0.	0.002	0.05	0.	0.	0.1	0.1
39370 DDT IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	14	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.003
39373 DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/22/68-10/20/81	12##	0.025	0.046	0.1	0.	0.002	0.05	0.	0.	0.1	0.1
39380 DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	14	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.003
39383 DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	10/22/68-10/20/81	12##	0.025	0.046	0.1	0.	0.002	0.05	0.	0.	0.1	0.1
39390 ENDRIN IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	14	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.003
39393 ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/22/68-10/20/81	12##	0.025	0.046	0.1	0.	0.002	0.05	0.	0.	0.1	0.1

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

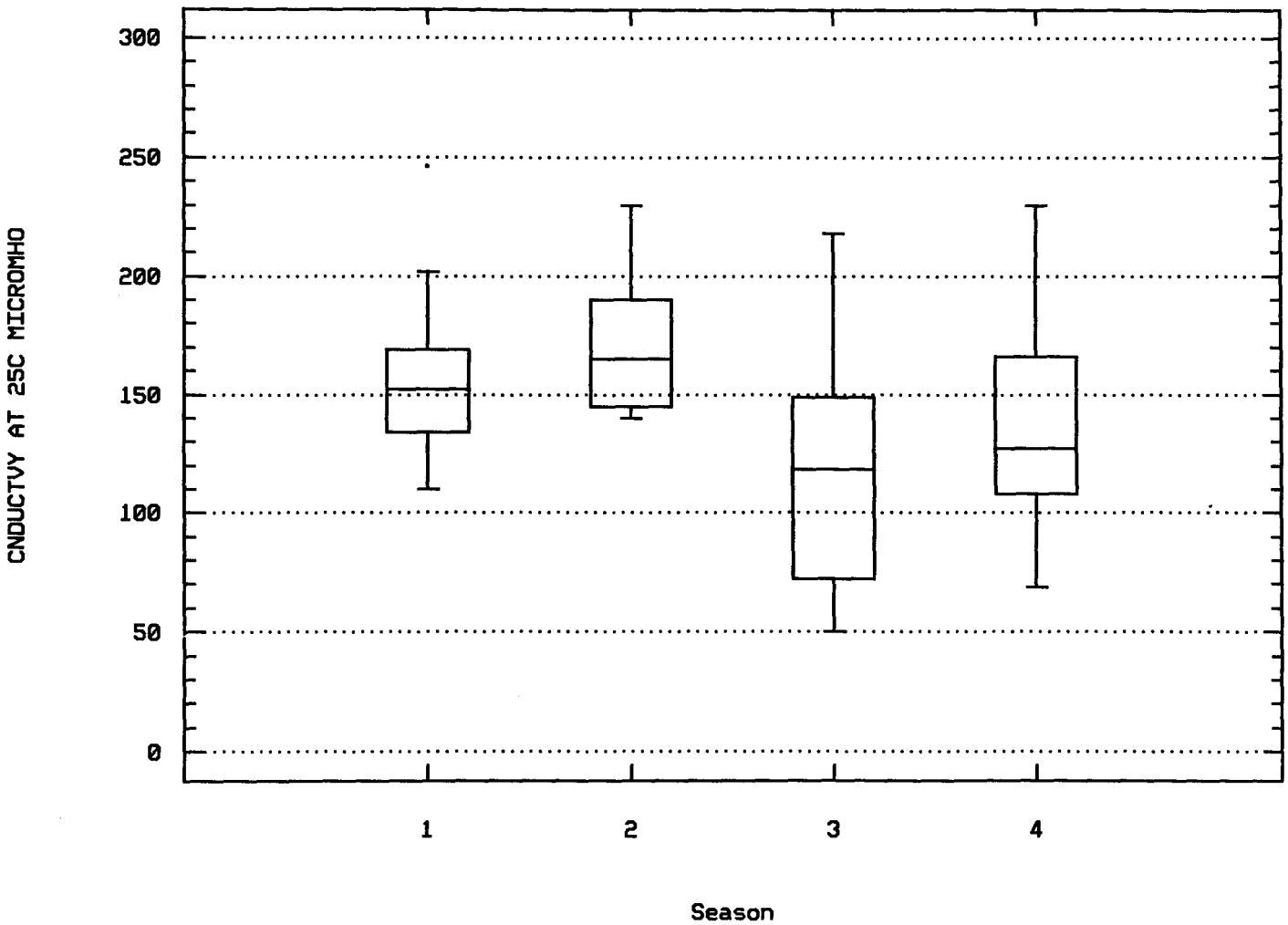
Seasonal Analysis for Season #4: 8/11 to 12/31 - Station ISR00005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39410 HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	10/17/67-10/20/81	14	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.003
39413 HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	10/22/68-10/20/81	12##	0.025	0.046	0.1	0.	0.002	0.05	0.	0.	0.1	0.1
39420 HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/15/70-10/20/81	11	0.	0.	0.005	0.	0.	0.002	0.	0.	0.	0.004
39423 HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	10/15/70-10/20/81	10	0.	0.035	0.1	0.	0.002	0.047	0.	0.	0.1	0.1
39516 PCBS IN WHOLE WATER SAMPLE (UG/L)	10/14/71-10/20/81	10	0.	0.035	0.25	0.	0.006	0.078	0.	0.	0.05	0.23
39519 PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/14/71-10/20/81	9	1.	2.222	7.	0.	8.444	2.906	0.	0.	5.5	7.
39530 MALATHION IN WHOLE WATER SAMPLE (UG/L)	10/15/70-10/20/81	9	0.	0.001	0.005	0.	0.	0.002	0.	0.	0.	0.005
39540 PARATHION IN WHOLE WATER SAMPLE (UG/L)	10/15/70-10/20/81	9	0.	0.001	0.005	0.	0.	0.002	0.	0.	0.	0.005
39570 DIAZINON IN WHOLE WATER SAMPLE (UG/L)	10/15/70-10/20/81	9	0.	0.001	0.005	0.	0.	0.002	0.	0.	0.	0.005
39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	10/15/70-10/20/81	9	0.	0.001	0.005	0.	0.	0.002	0.	0.	0.	0.005
39730 2,4-D IN WHOLE WATER SAMPLE (UG/L)	05/10/68-10/20/81	12	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.004
39740 2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	05/10/68-10/20/81	12	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.004
39760 SILVEX IN WHOLE WATER SAMPLE (UG/L)	05/10/68-10/20/81	12	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.004
70300p RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/11/65-02/10/93	52	115.	115.692	169.	54.	578.649	24.055	86.3	100.25	135.25	147.4
70301p SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/06/67-02/03/87	37	92.	94.973	147.	57.	524.694	22.906	63.8	75.	112.5	126.
70302p SOLIDS, DISSOLVED-TONS PER DAY	02/11/65-02/16/83	39	1.4	2.845	13.6	0.2	10.81	3.288	0.39	0.7	4.07	7.49
70303p SOLIDS, DISSOLVED-TONS PER ACRE-FT	02/11/65-02/16/83	39	0.16	0.166	0.23	0.12	0.001	0.029	0.12	0.15	0.19	0.2
70331p SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	05/04/76-06/16/92	14	76.	79.929	100.	54.	230.995	15.199	57.	67.	94.75	100.
71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	02/11/65-06/06/73	19	0.5	0.568	1.4	0.	0.077	0.277	0.2	0.5	0.6	0.9
71886p PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/06/67-10/29/86	25	0.06	0.087	0.52	0.	0.012	0.111	0.	0.025	0.125	0.21
71890p MERCURY, DISSOLVED (UG/L AS HG)	07/11/70-08/13/91	17##	0.05	0.097	0.5	0.	0.014	0.117	0.04	0.05	0.1	0.26
71900 MERCURY, TOTAL (UG/L AS HG)	10/15/70-05/12/82	10##	0.25	0.235	0.3	0.1	0.003	0.053	0.11	0.238	0.25	0.295
80030p ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	10/17/67-10/21/92	24##	0.7	0.883	2.5	0.2	0.41	0.64	0.2	0.363	1.1	2.
80040p ALPHA,SUSPENDED GROSS, AS URANIUM-NATURAL, UG/L	10/17/67-10/21/92	24##	0.2	0.21	0.3	0.2	0.001	0.029	0.2	0.2	0.2	0.275
80050p BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	10/17/67-10/21/92	24	1.75	2.063	4.5	0.7	1.129	1.062	0.9	1.15	2.675	3.8
80060p BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L	10/17/67-10/21/92	24##	0.2	0.3	0.9	0.2	0.04	0.201	0.2	0.2	0.3	0.75
80154p SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	08/06/62-06/16/92	39	3.	5.564	50.	0.	95.305	9.762	0.	2.	5.	13.
80155p SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	08/06/62-09/22/82	26	0.025	0.172	1.9	0.	0.161	0.401	0.	0.008	0.113	0.567

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Station: ISR00005 Parameter Code: 00095

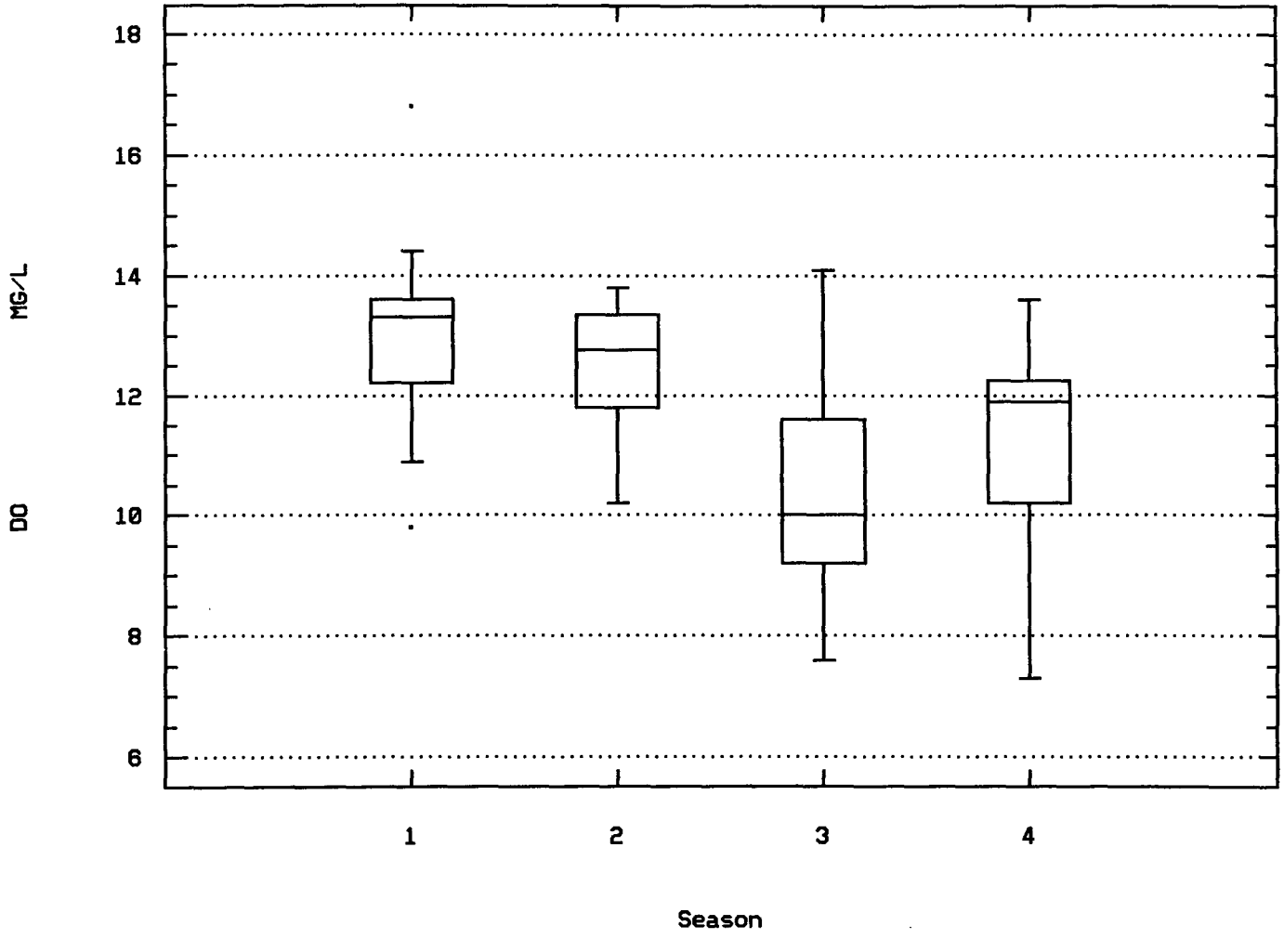
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00300

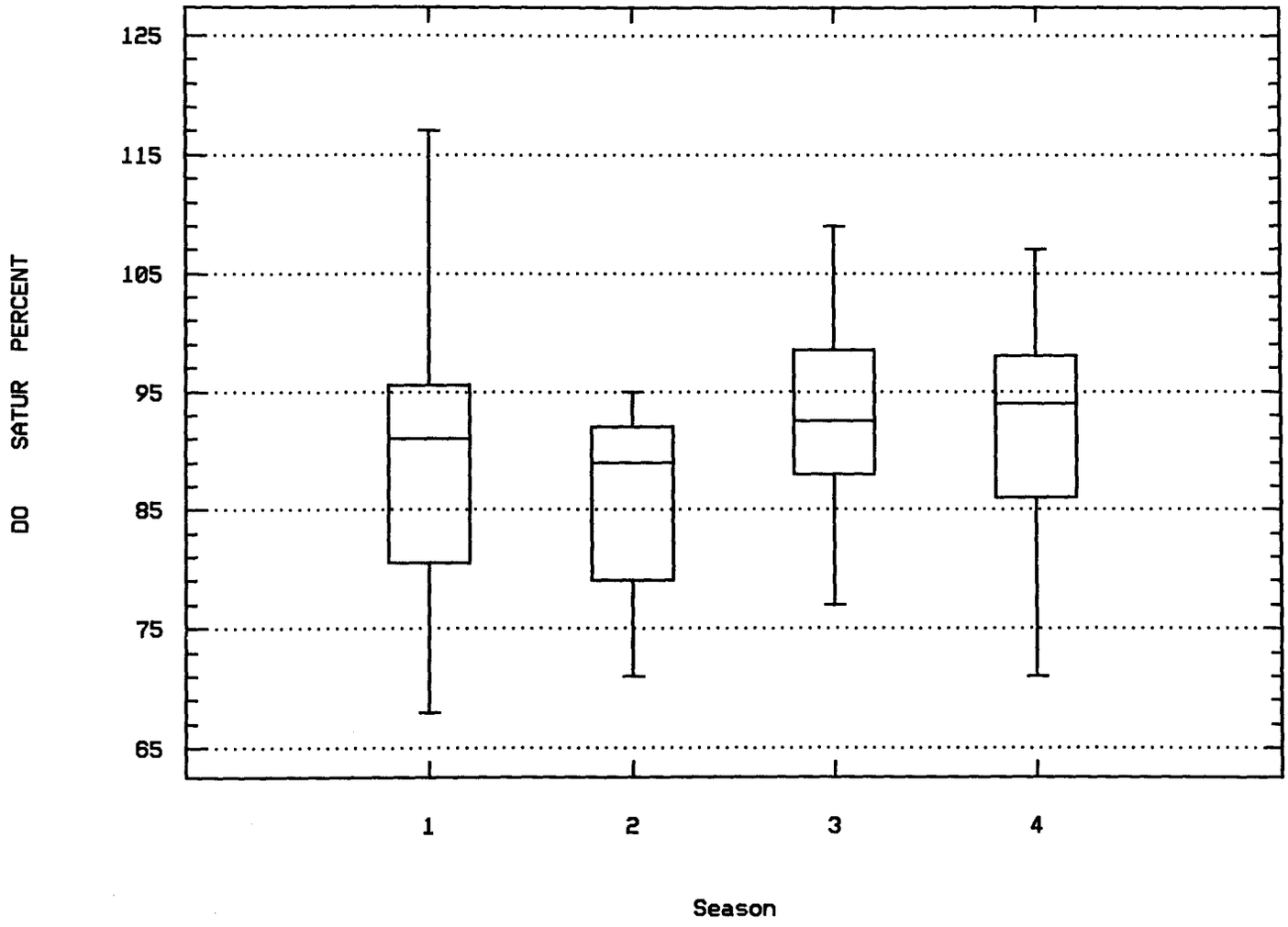
OXYGEN, DISSOLVED



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00301

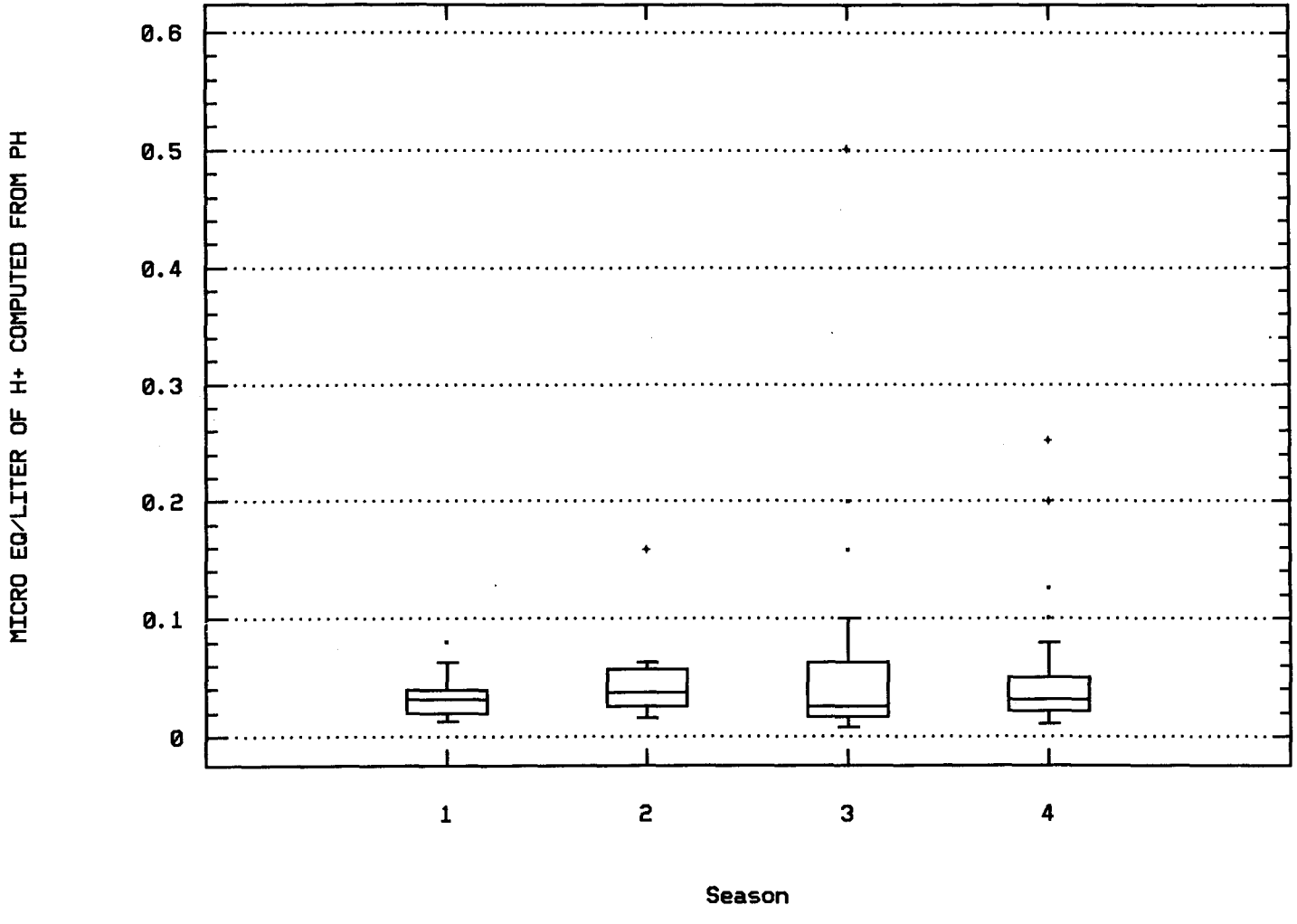
OXYGEN, DISSOLVED, PERCENT OF SATURATIO



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00400

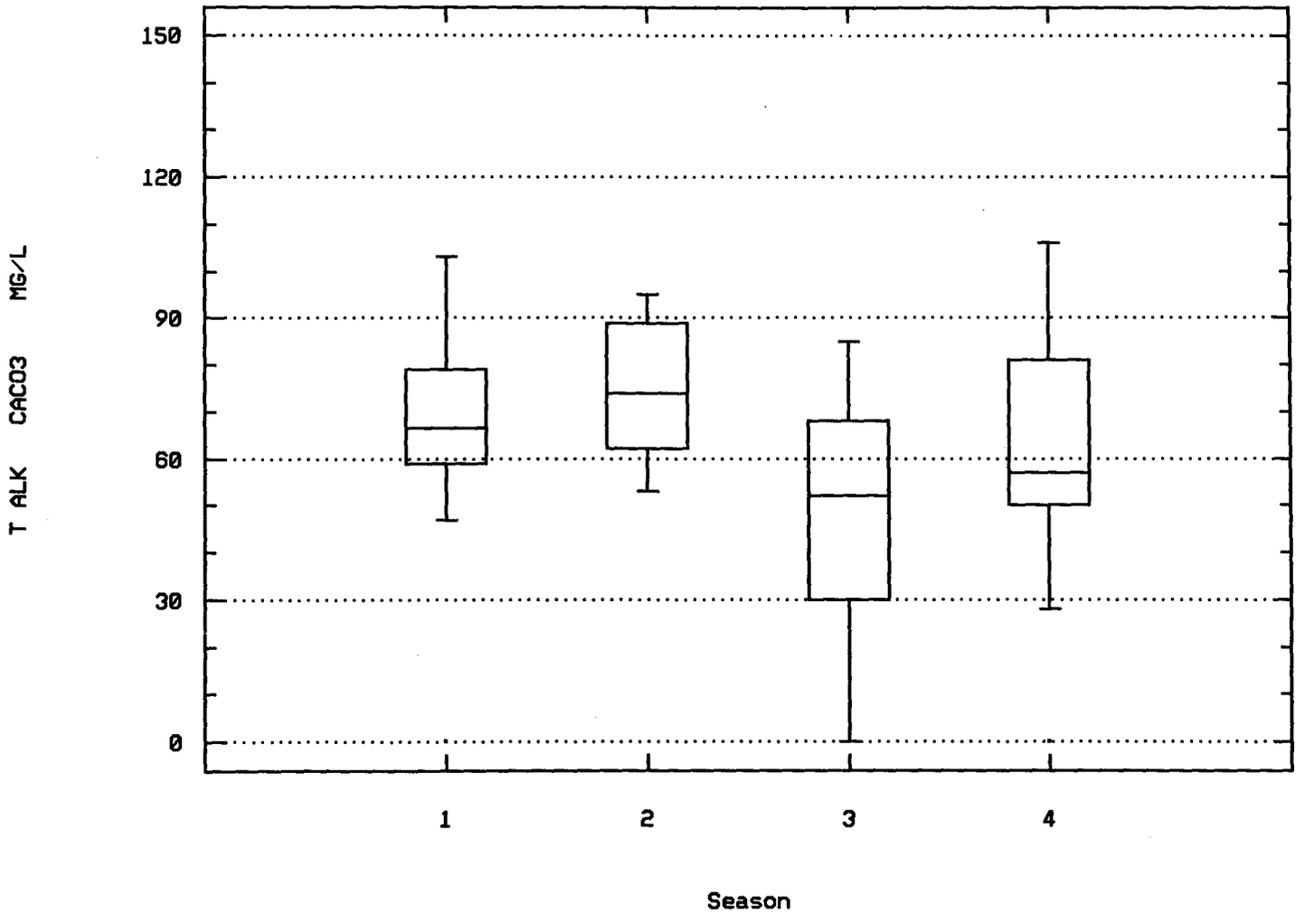
MICRO EQ/LITER OF H+ COMPUTED FROM PH



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00410

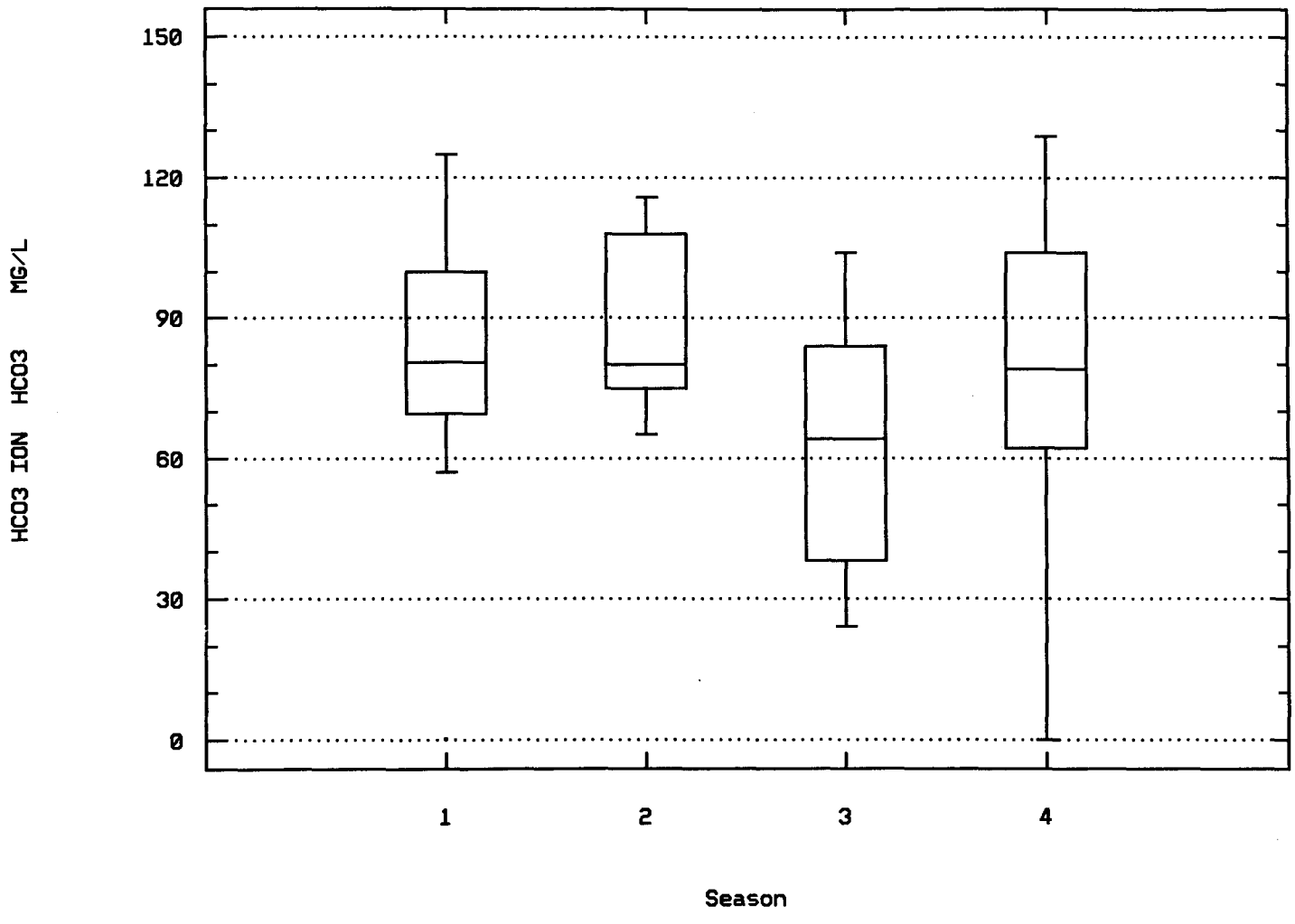
ALKALINITY, TOTAL (MG/L AS CACO3)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00440

BICARBONATE ION (MG/L AS HCO3)

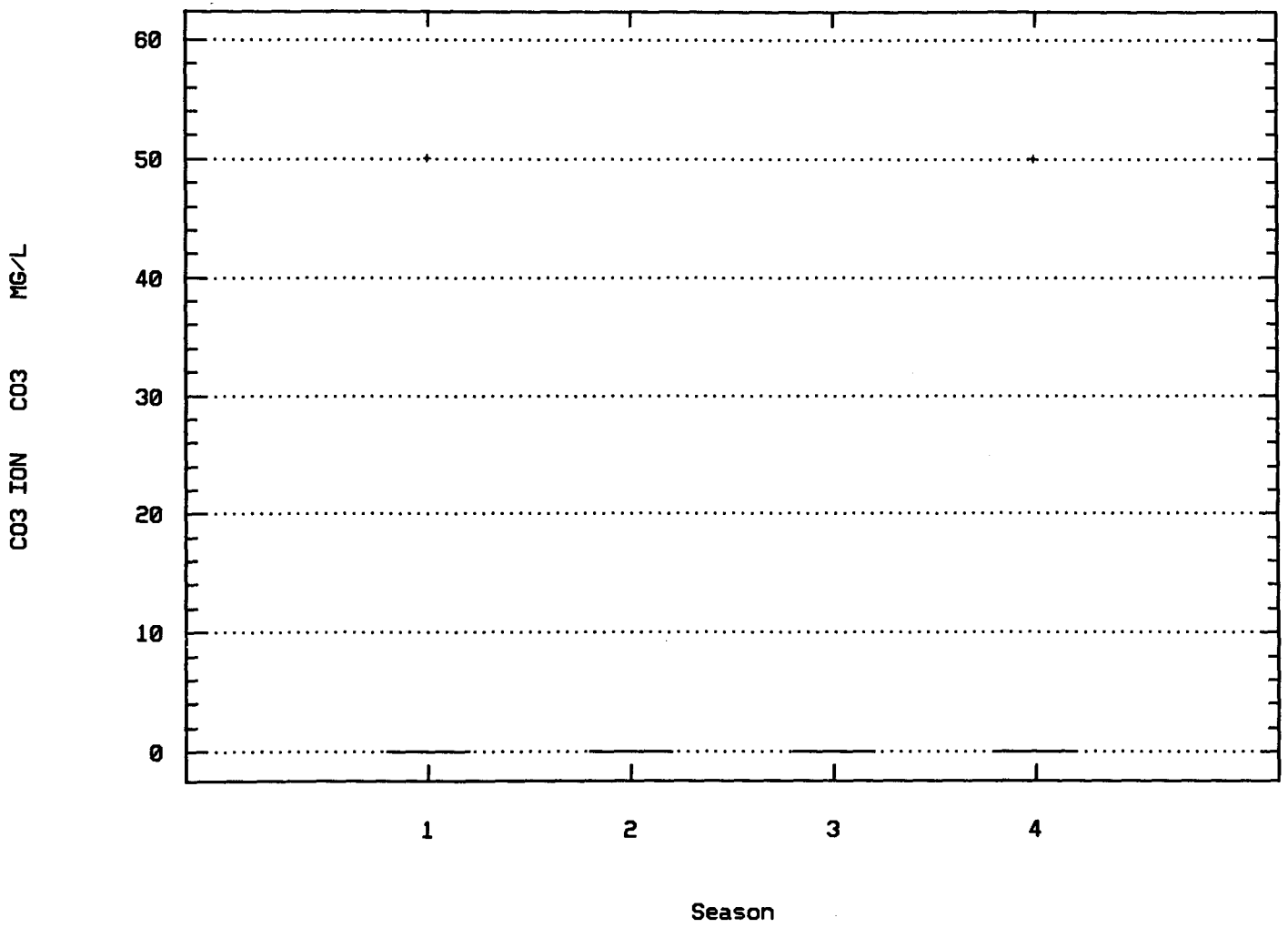


WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 00445

CARBONATE ION (MG/L AS CO3)

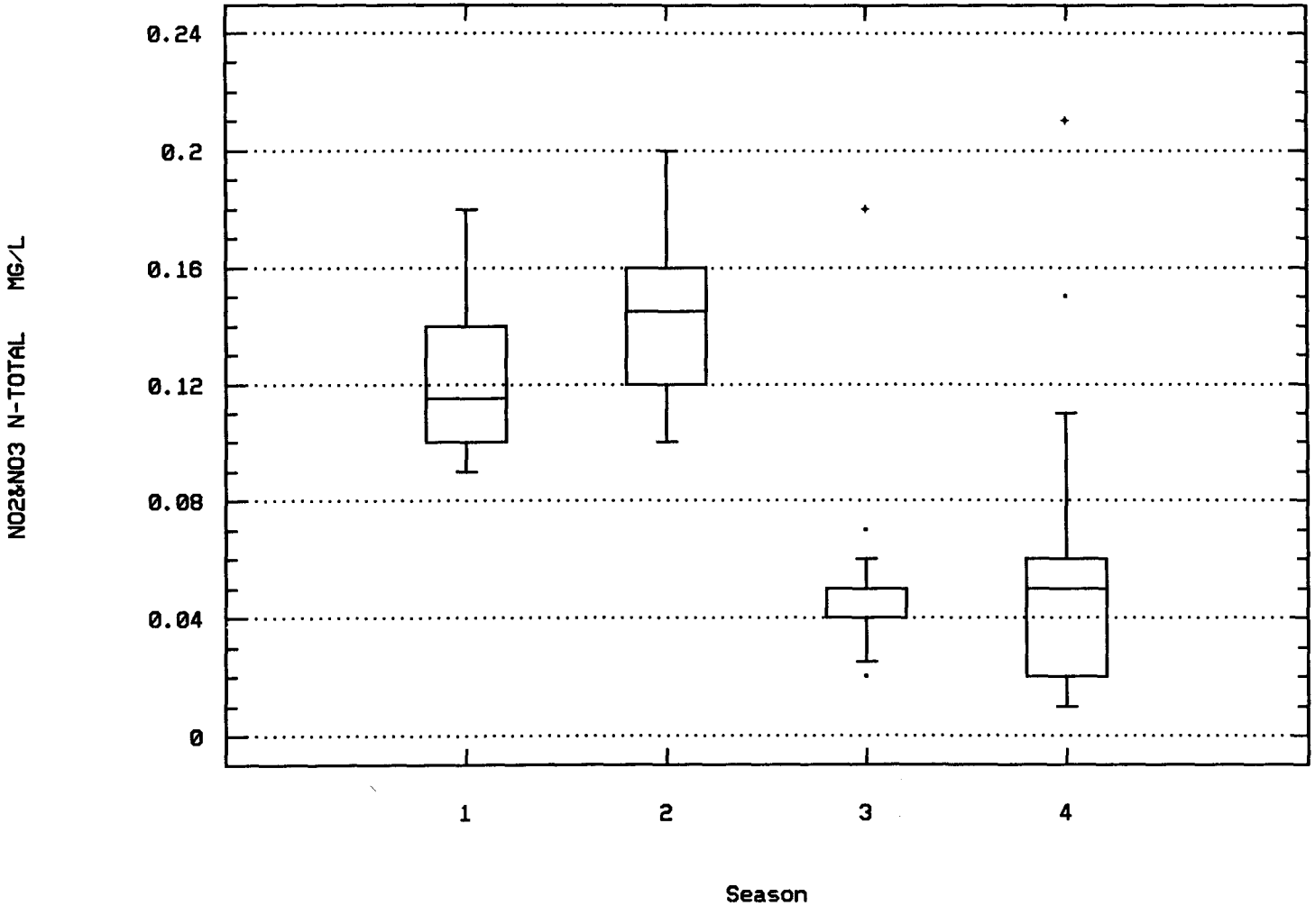
(X 1.0E-7)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00630

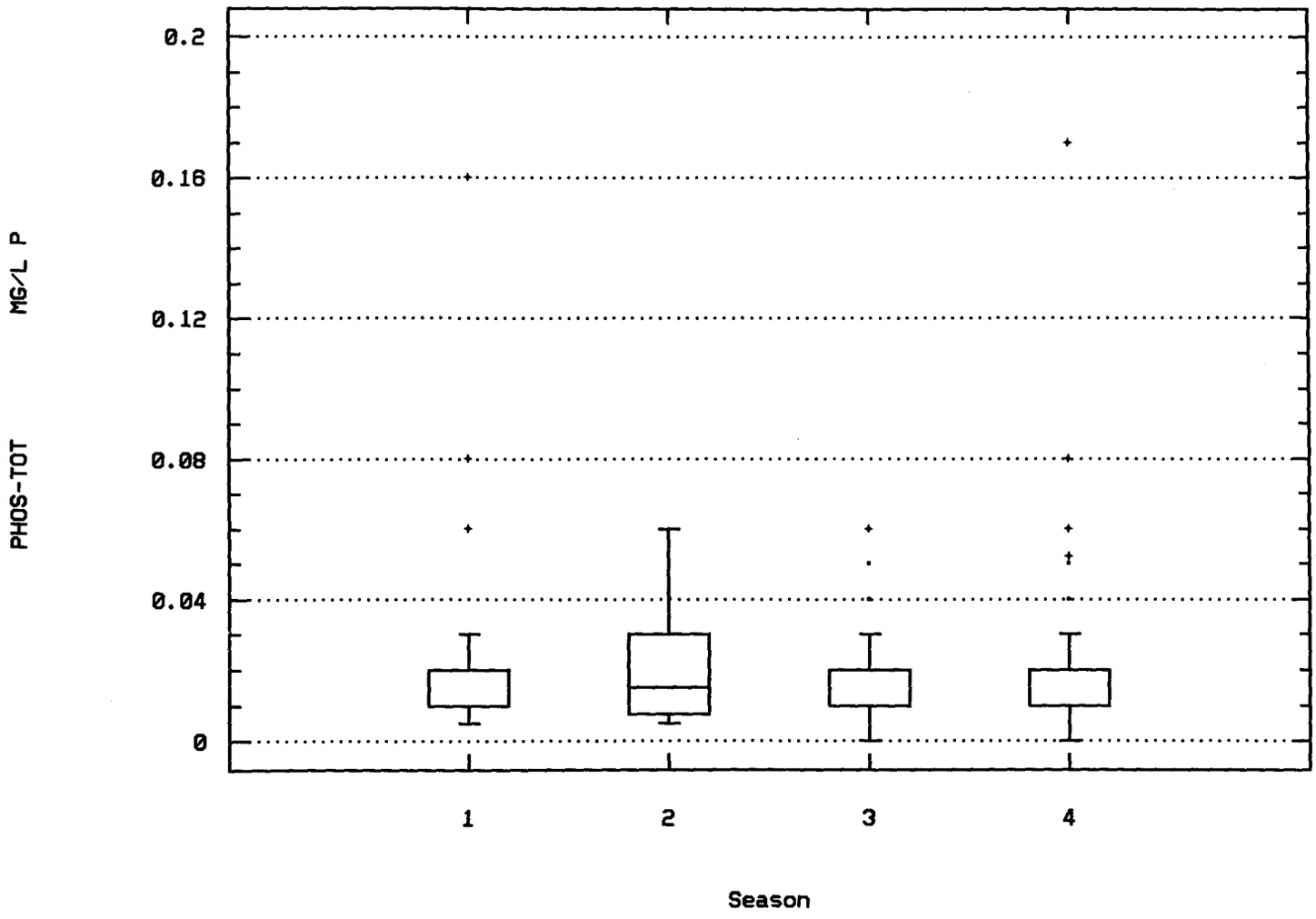
NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00665

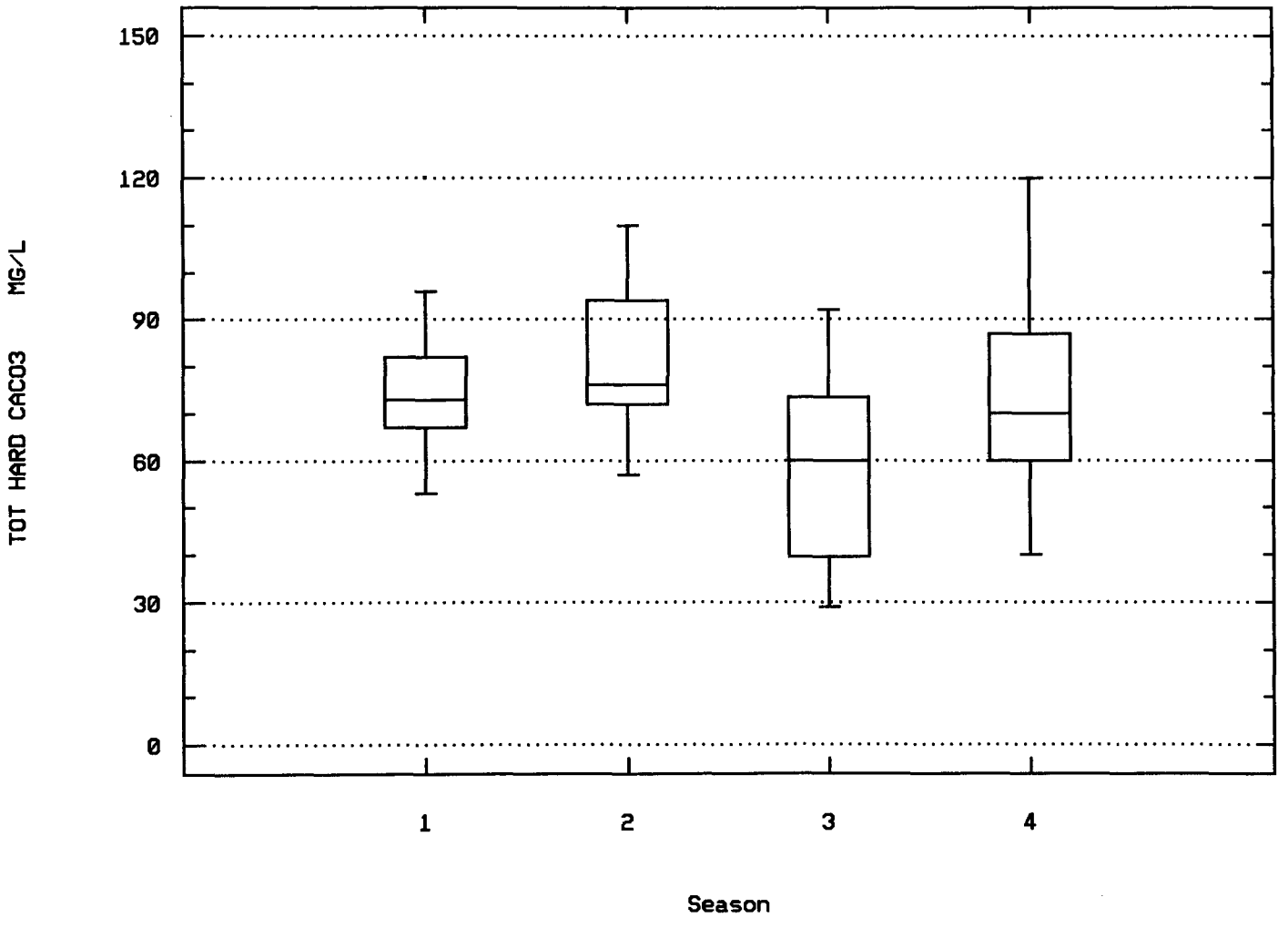
PHOSPHORUS, TOTAL (MG/L AS P)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 00900

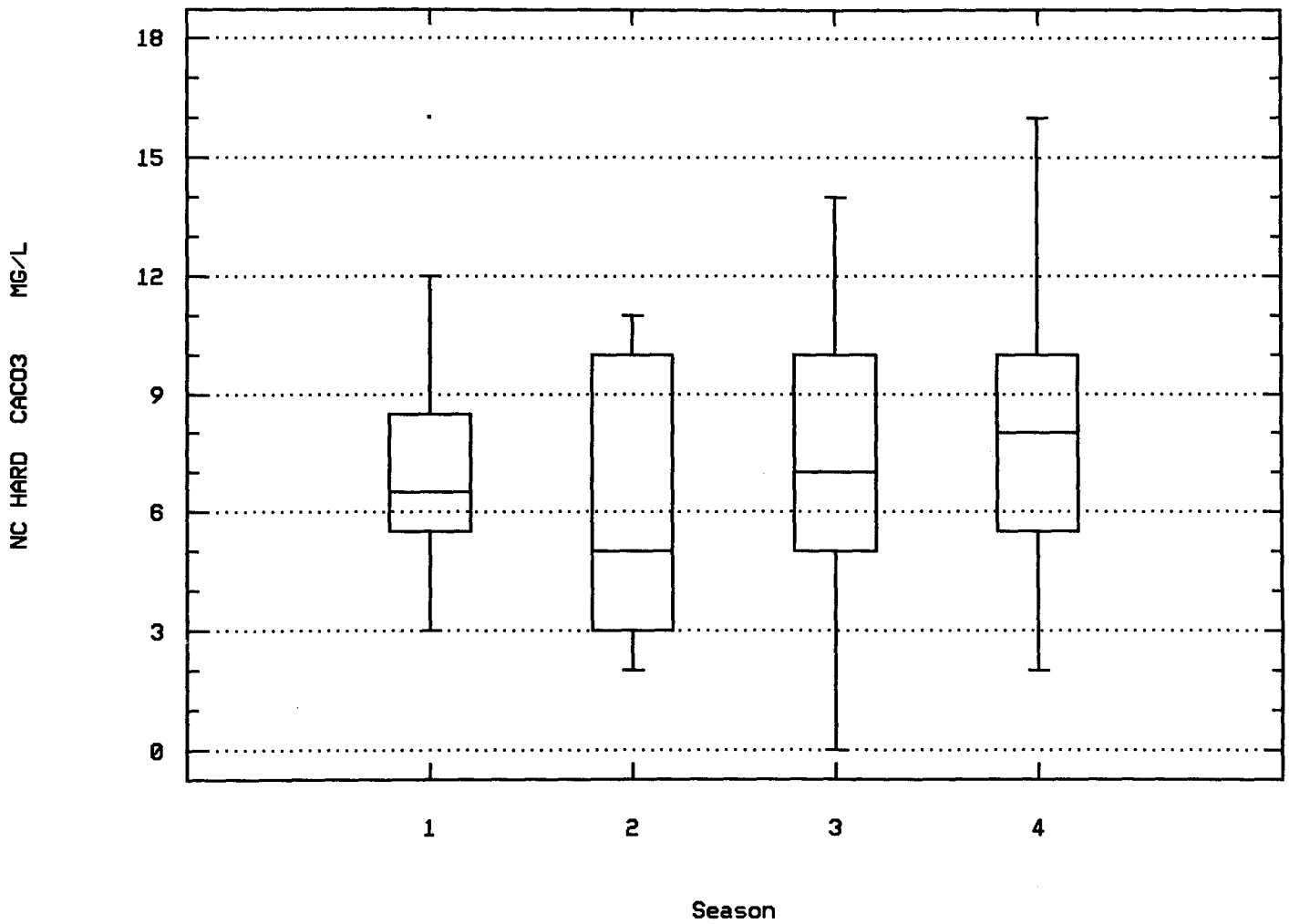
HARDNESS, TOTAL (MG/L AS CACO3)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 00902

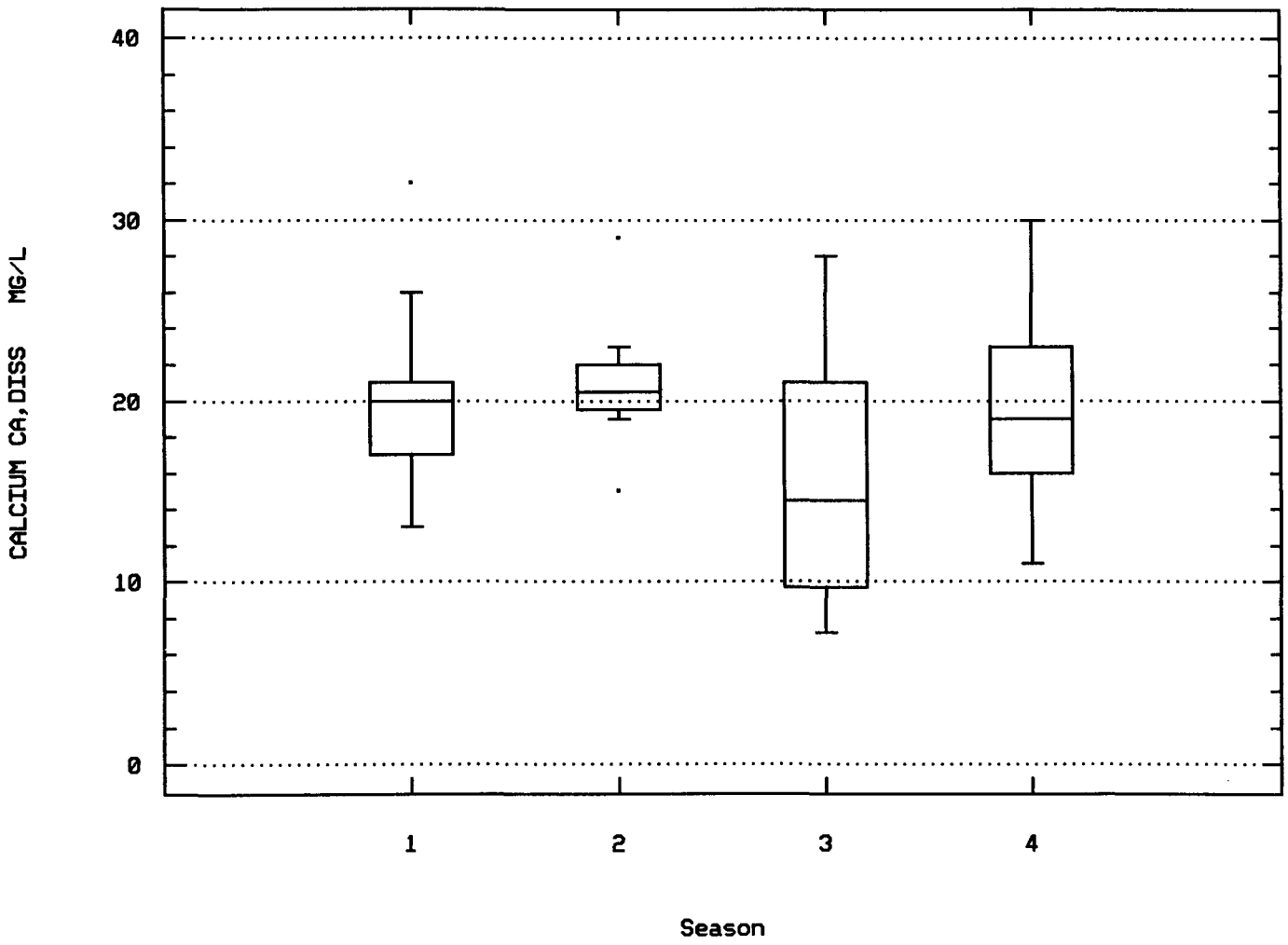
HARDNESS, NON-CARBONATE (MG/L AS CACO3)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 00915

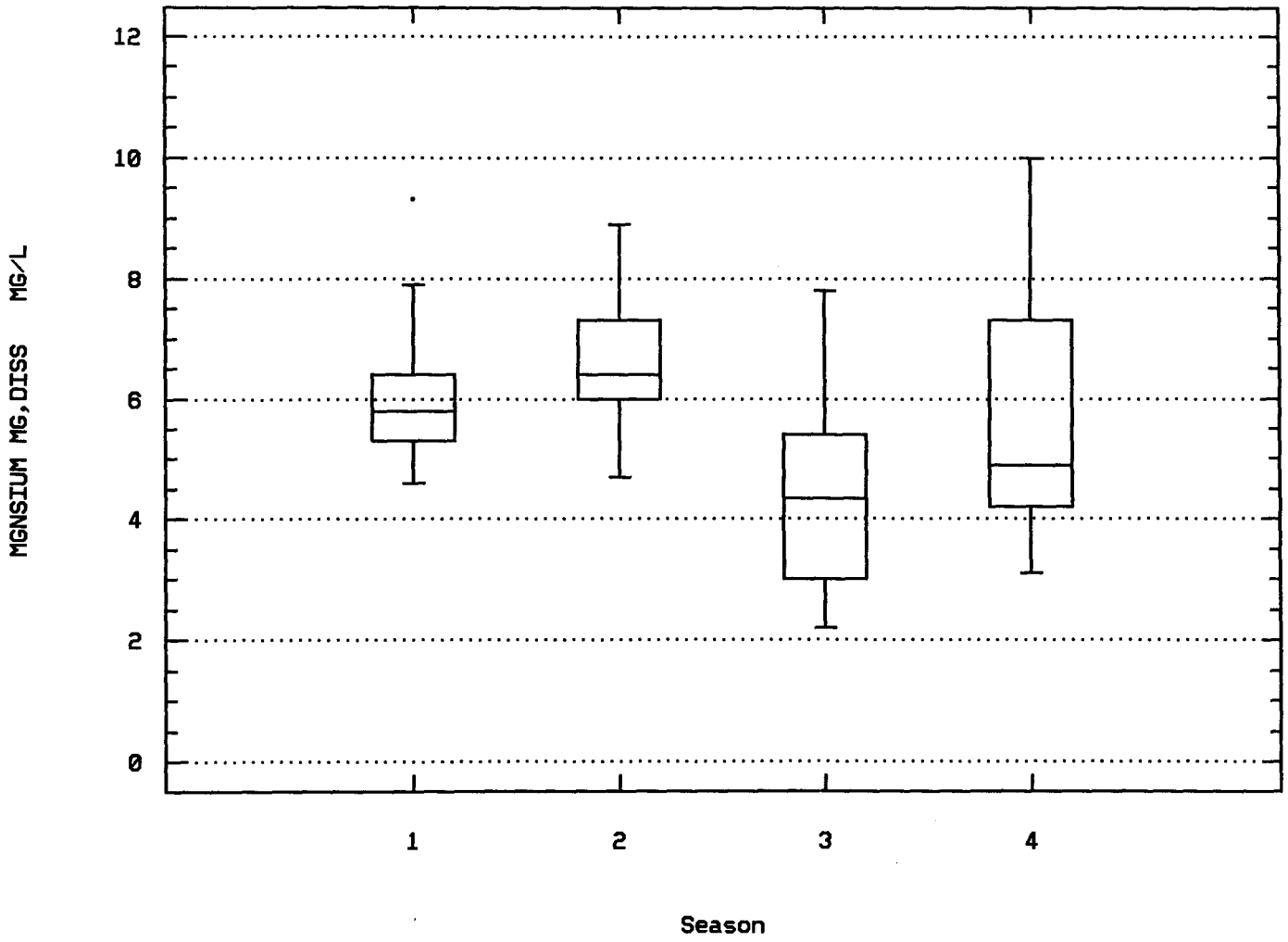
CALCIUM, DISSOLVED (MG/L AS CA)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00925

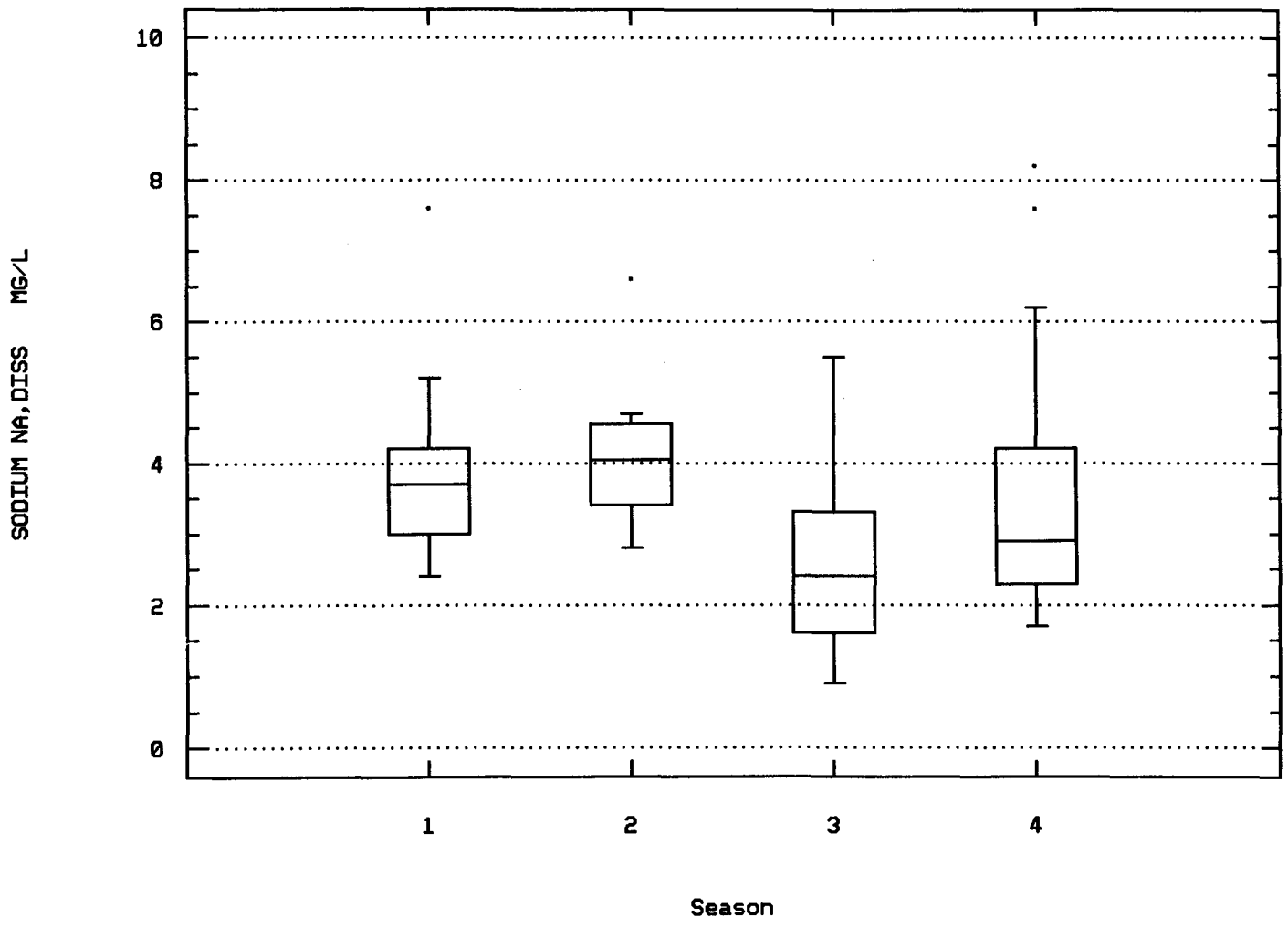
MAGNESIUM, DISSOLVED (MG/L AS MG)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00930

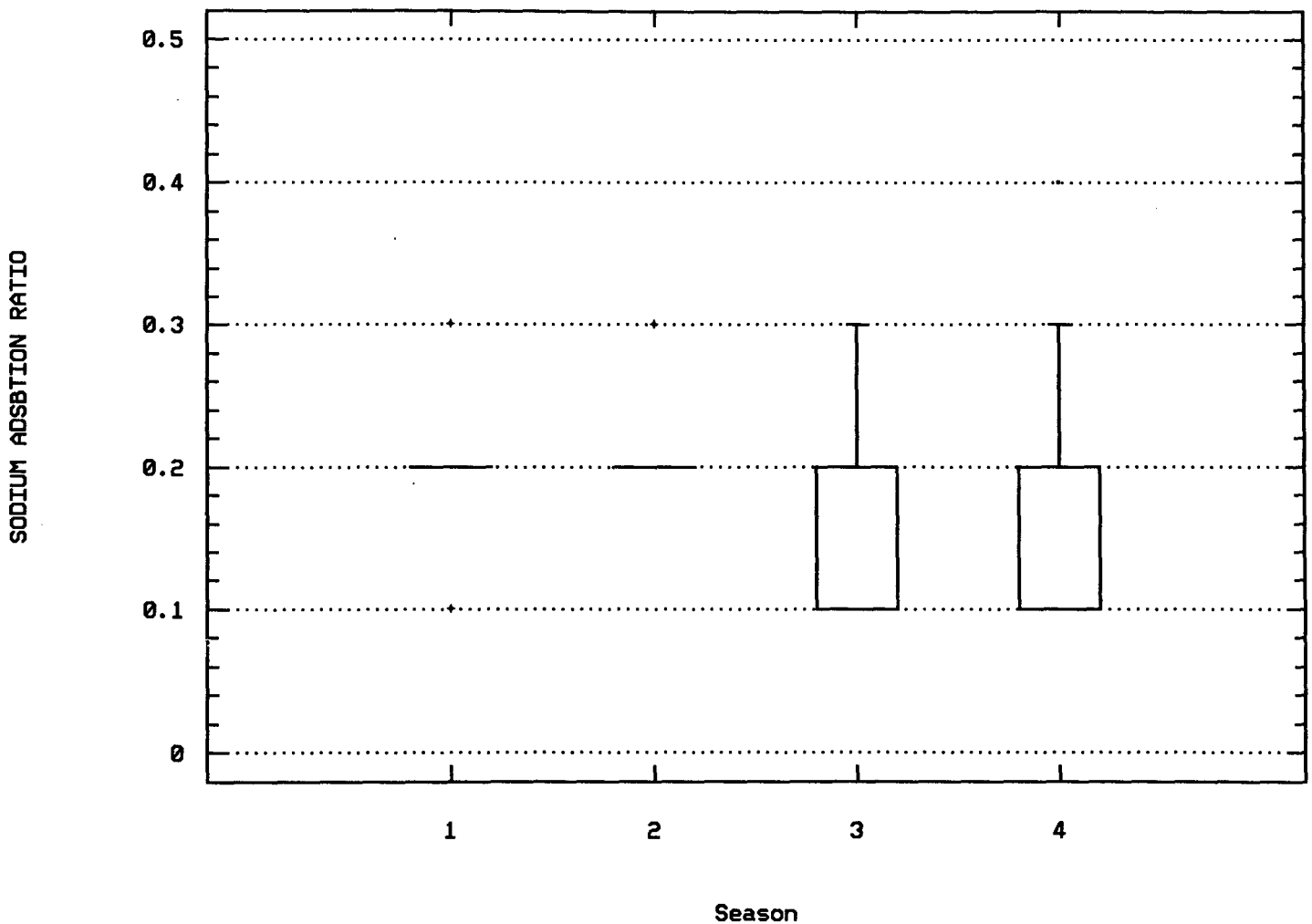
SODIUM, DISSOLVED (MG/L AS NA)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 00931

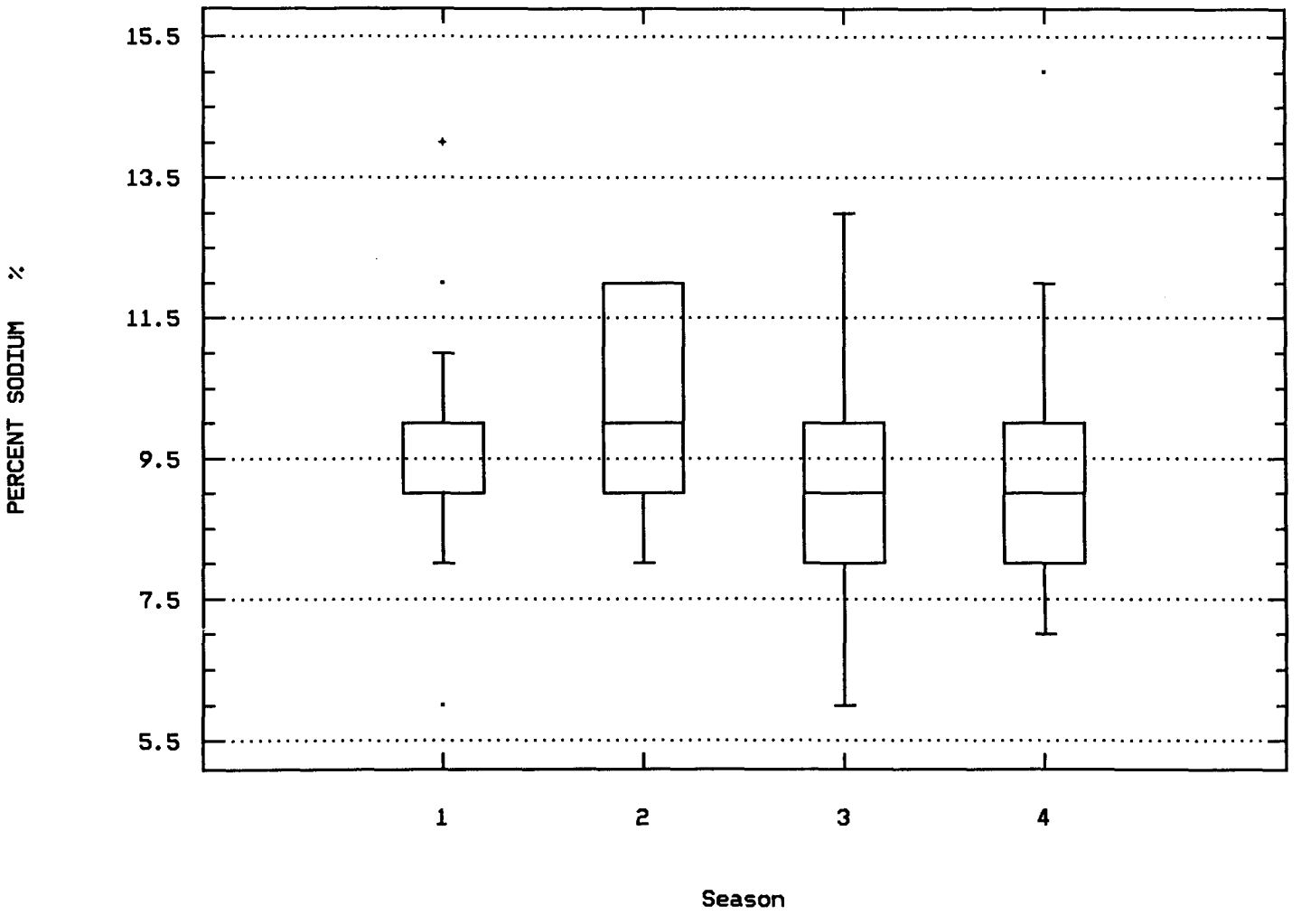
SODIUM ADSORPTION RATIO



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00932

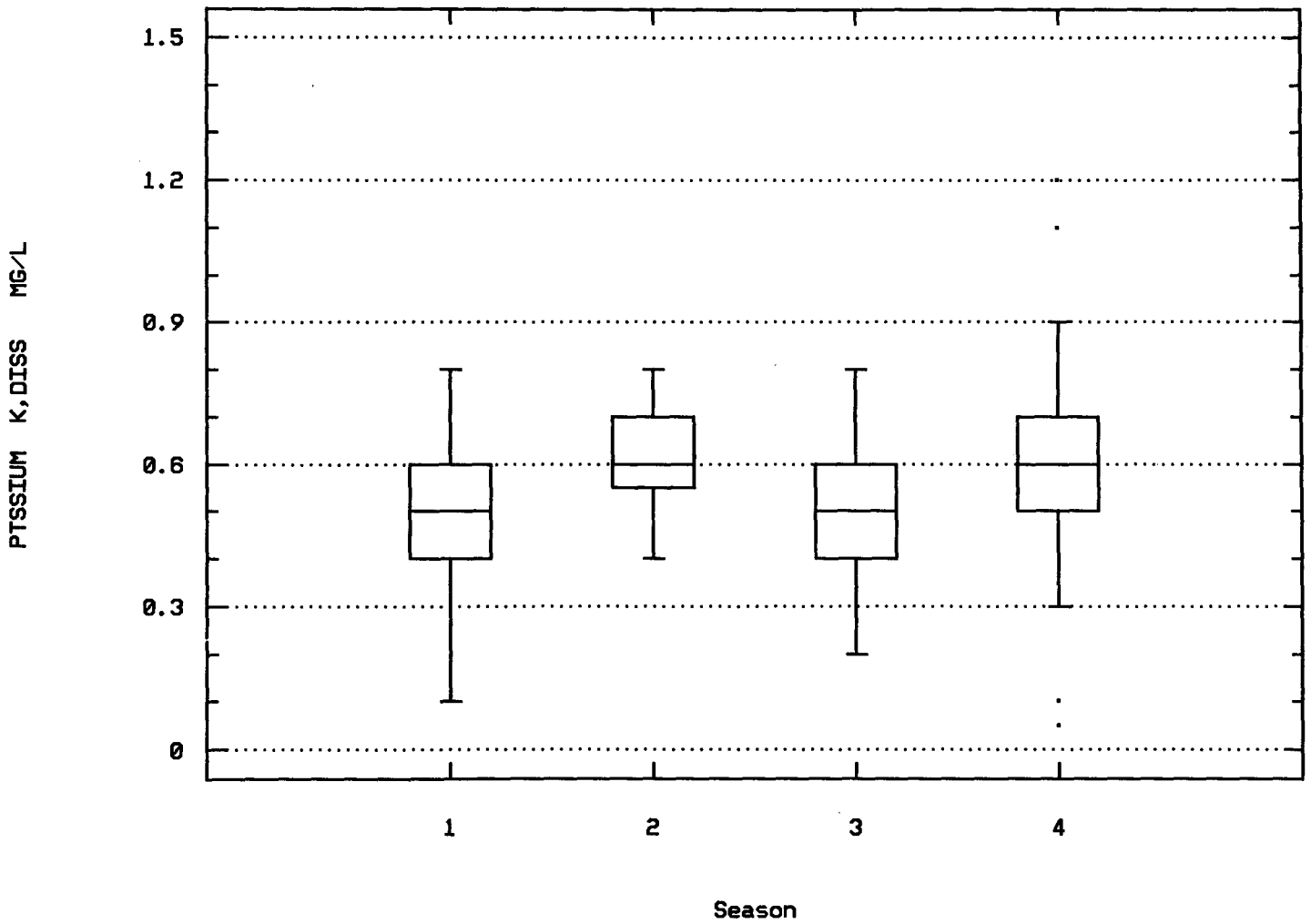
SODIUM, PERCENT



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00935

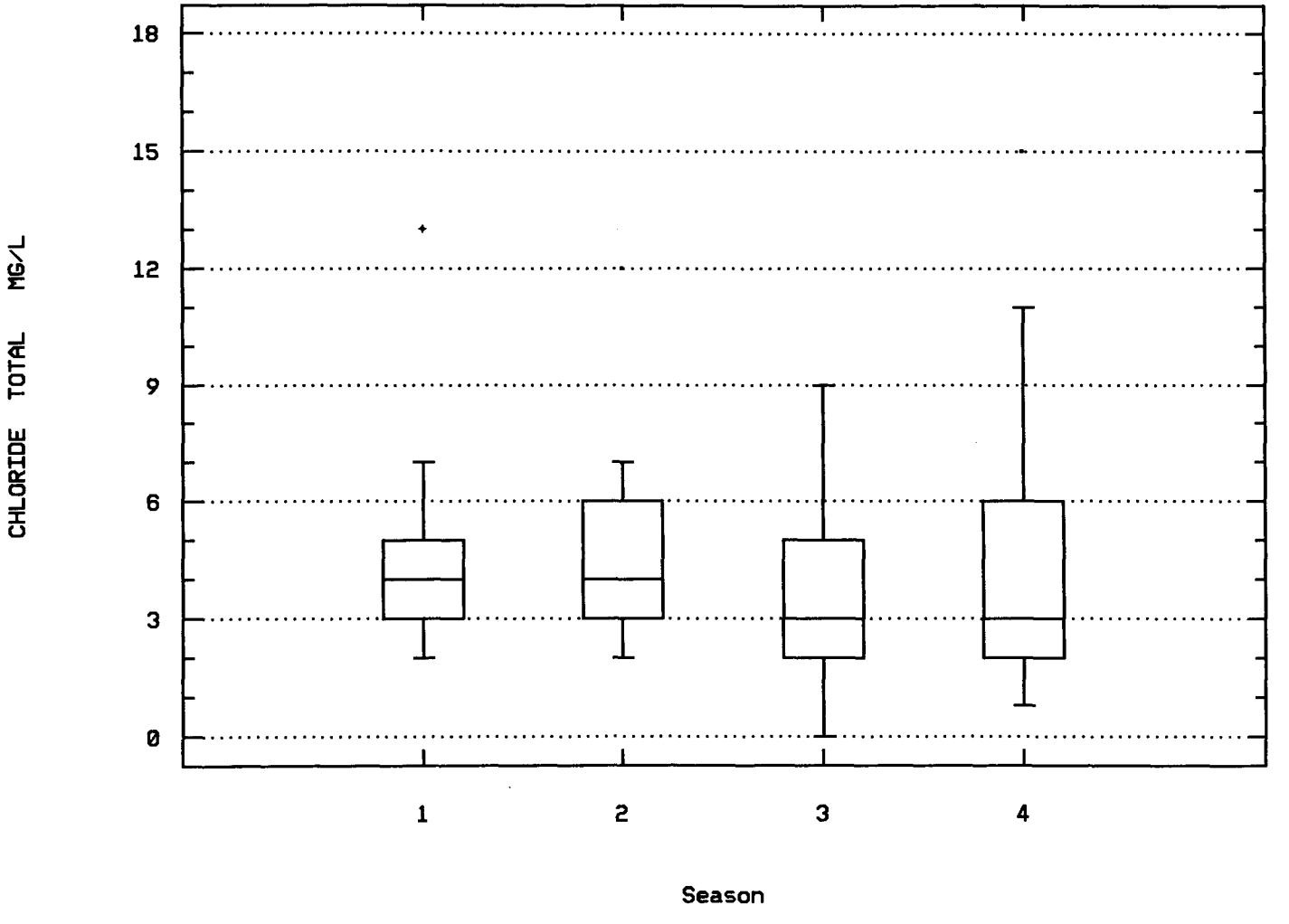
POTASSIUM, DISSOLVED (MG/L AS K)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00940

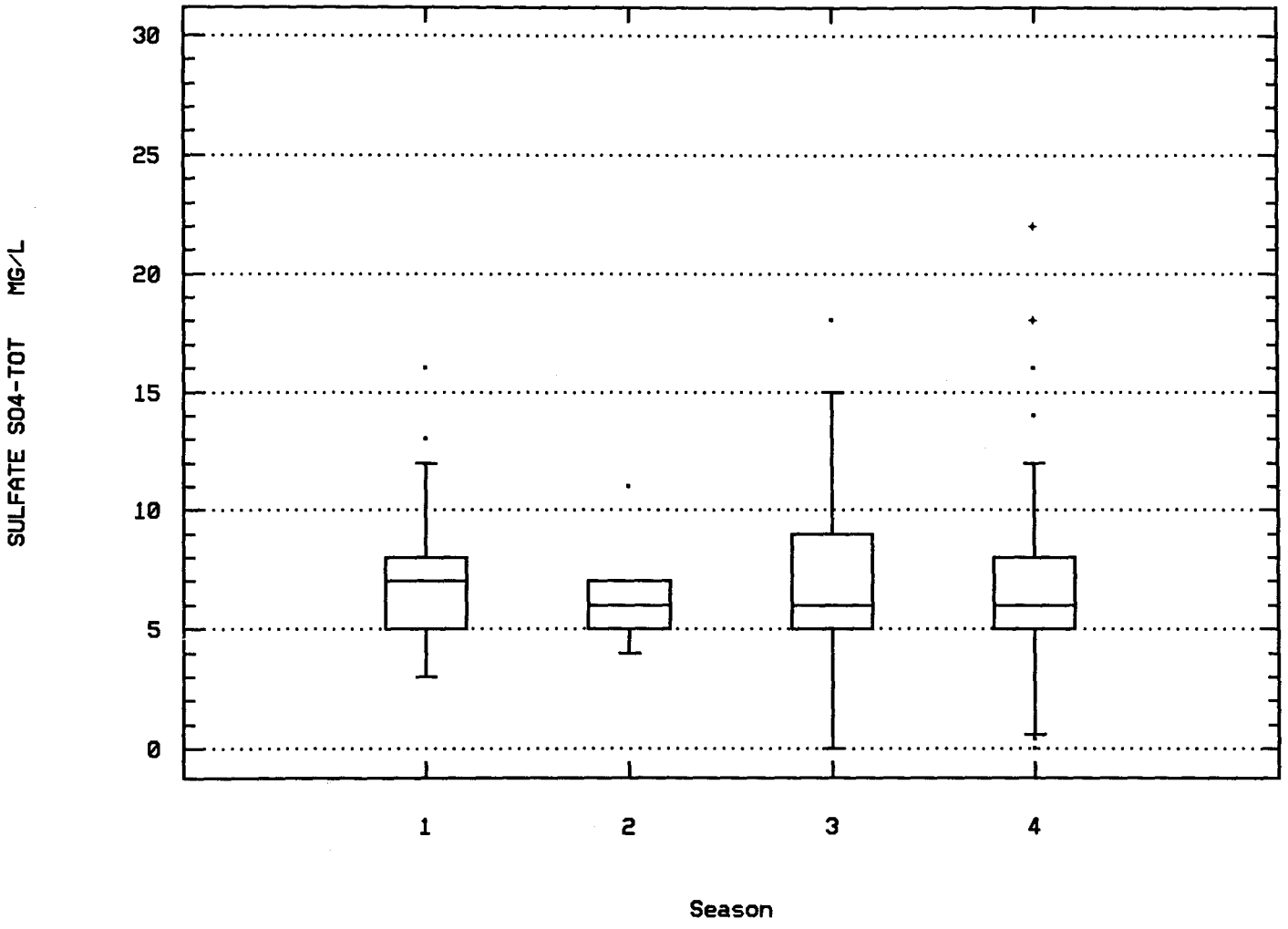
CHLORIDE,TOTAL IN WATER



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 00945

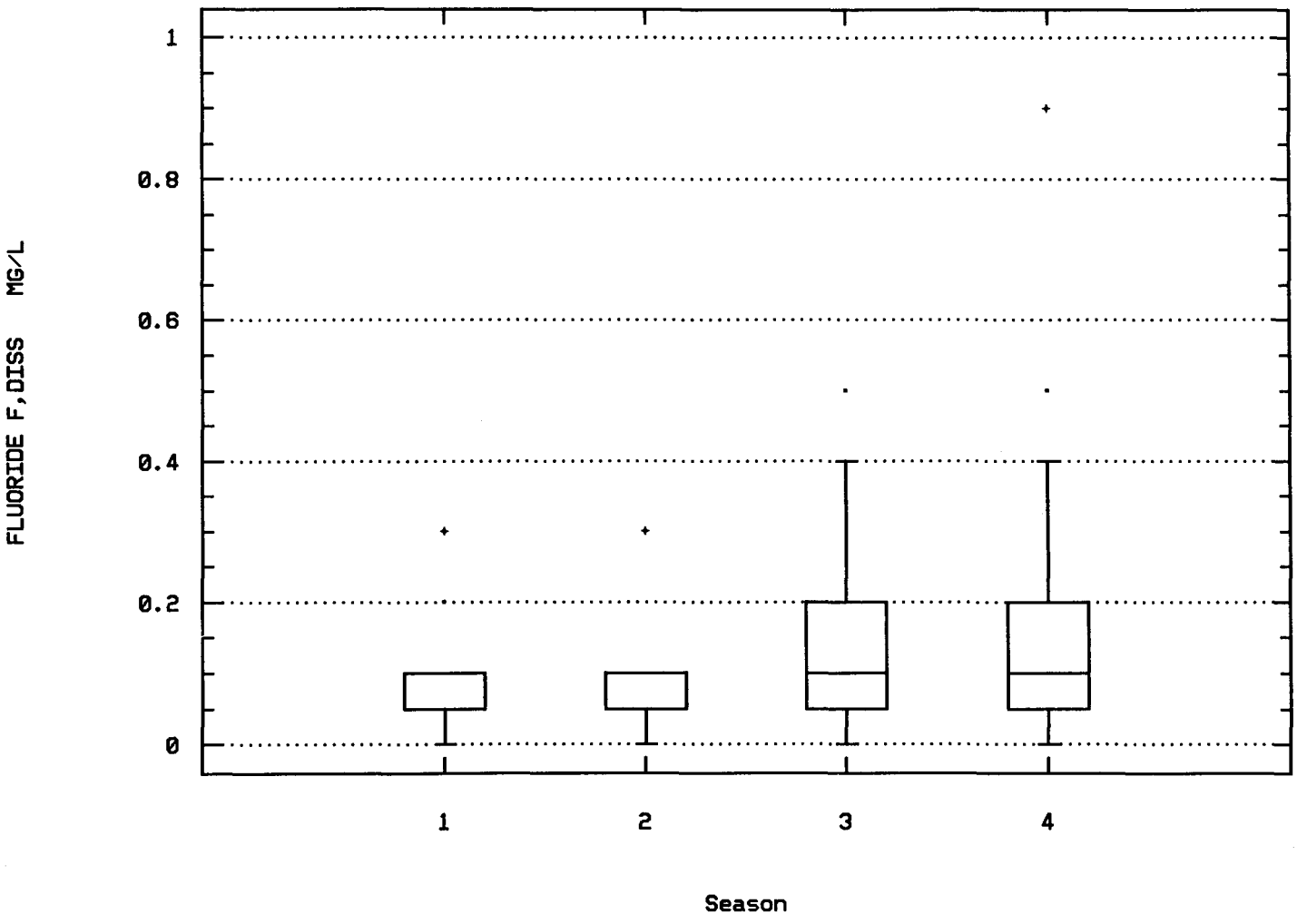
SULFATE, TOTAL (MG/L AS SO4)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00950

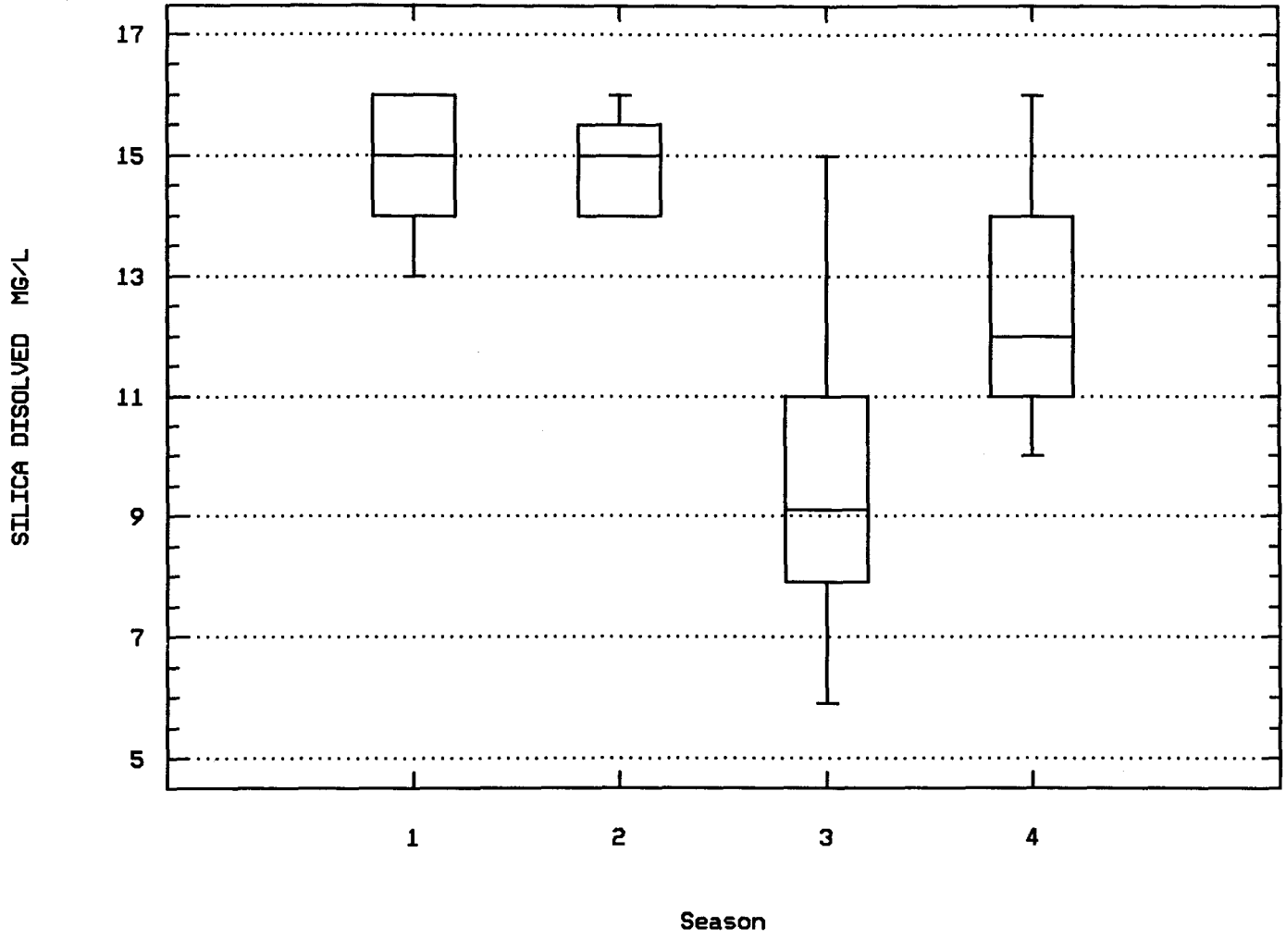
FLUORIDE, DISSOLVED (MG/L AS F)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 00955

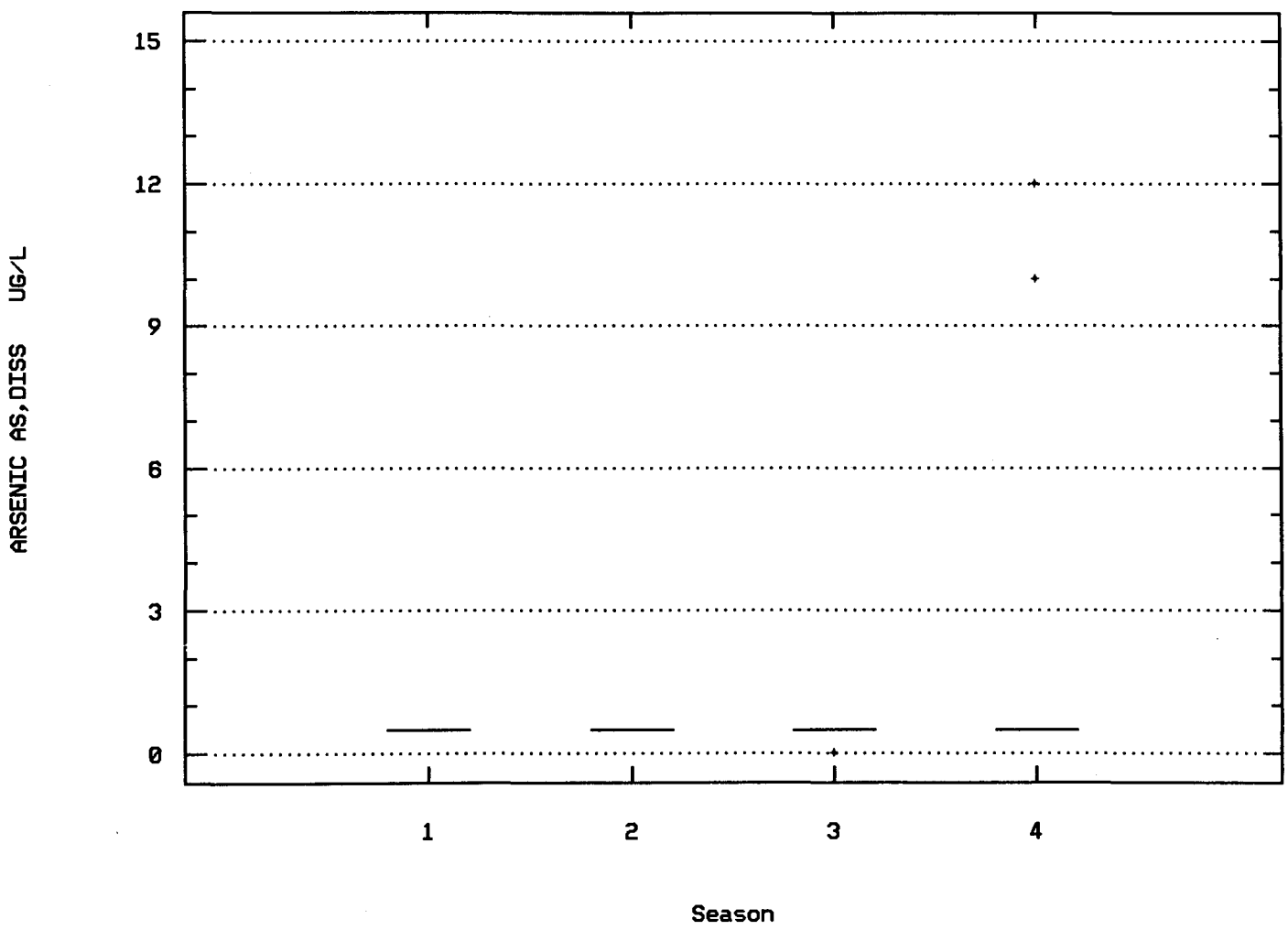
SILICA, DISSOLVED (MG/L AS SI02)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 01000

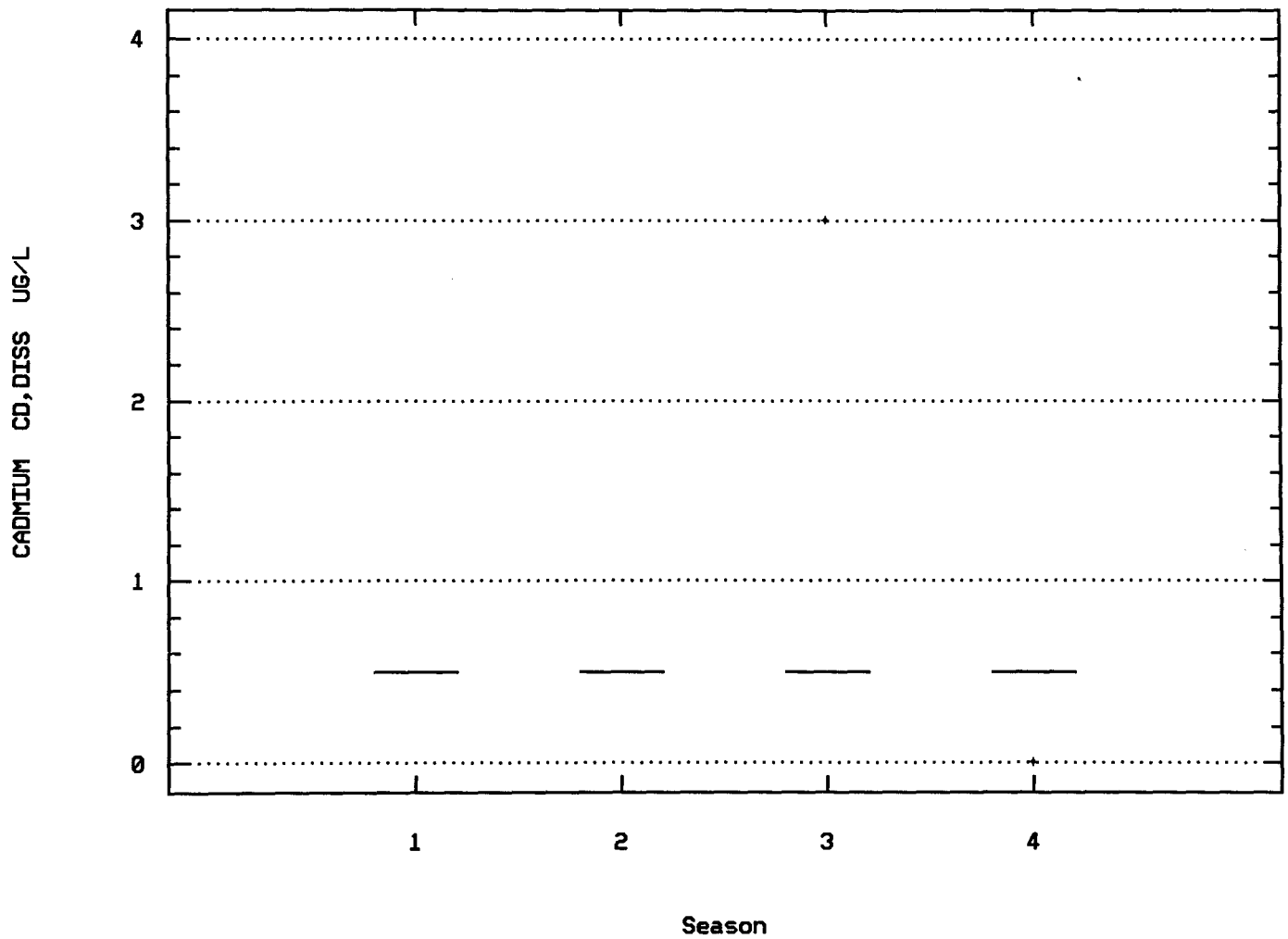
ARSENIC, DISSOLVED (UG/L AS AS)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 01025

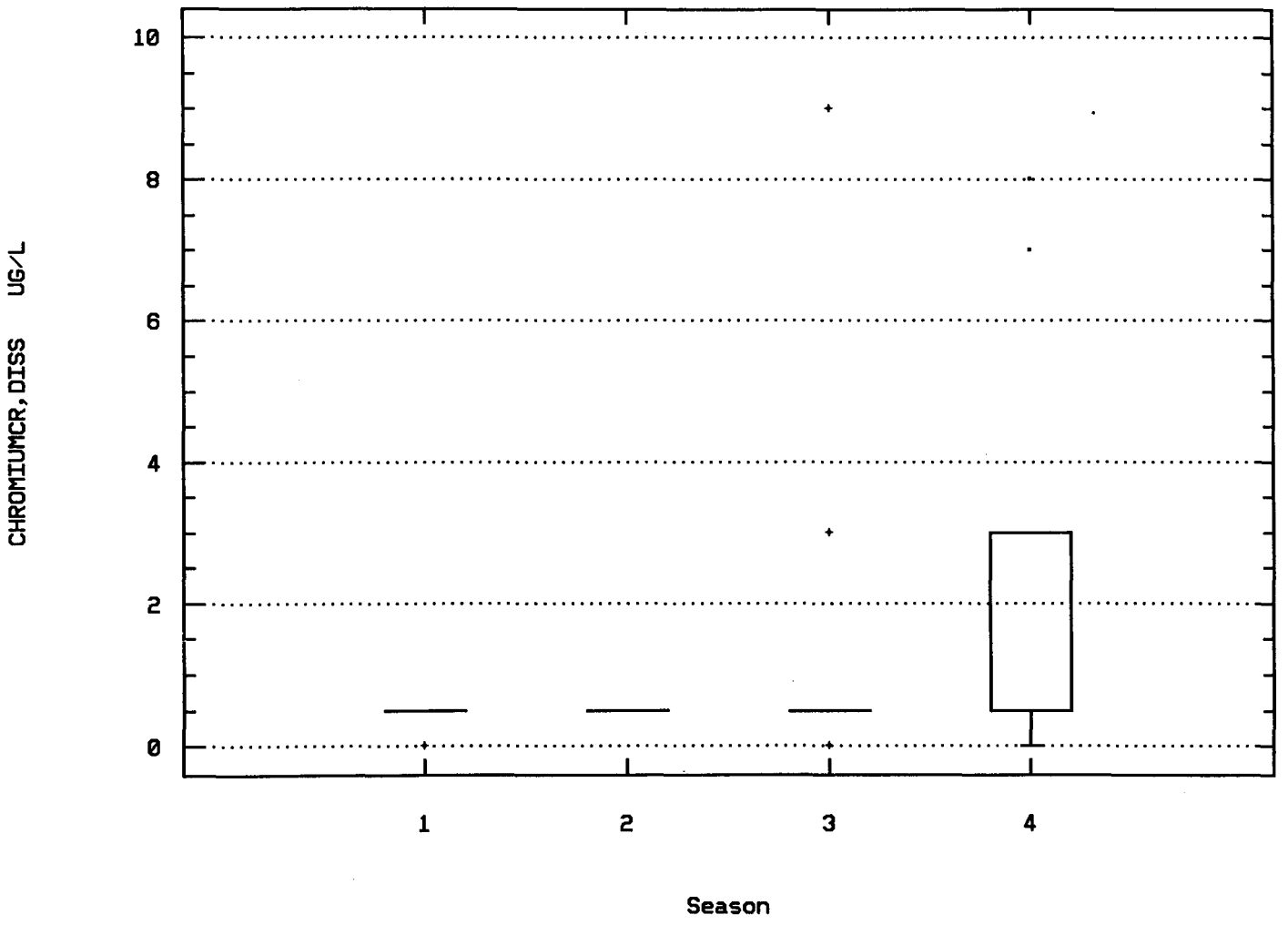
CADMIUM, DISSOLVED (UG/L AS CD)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 01030

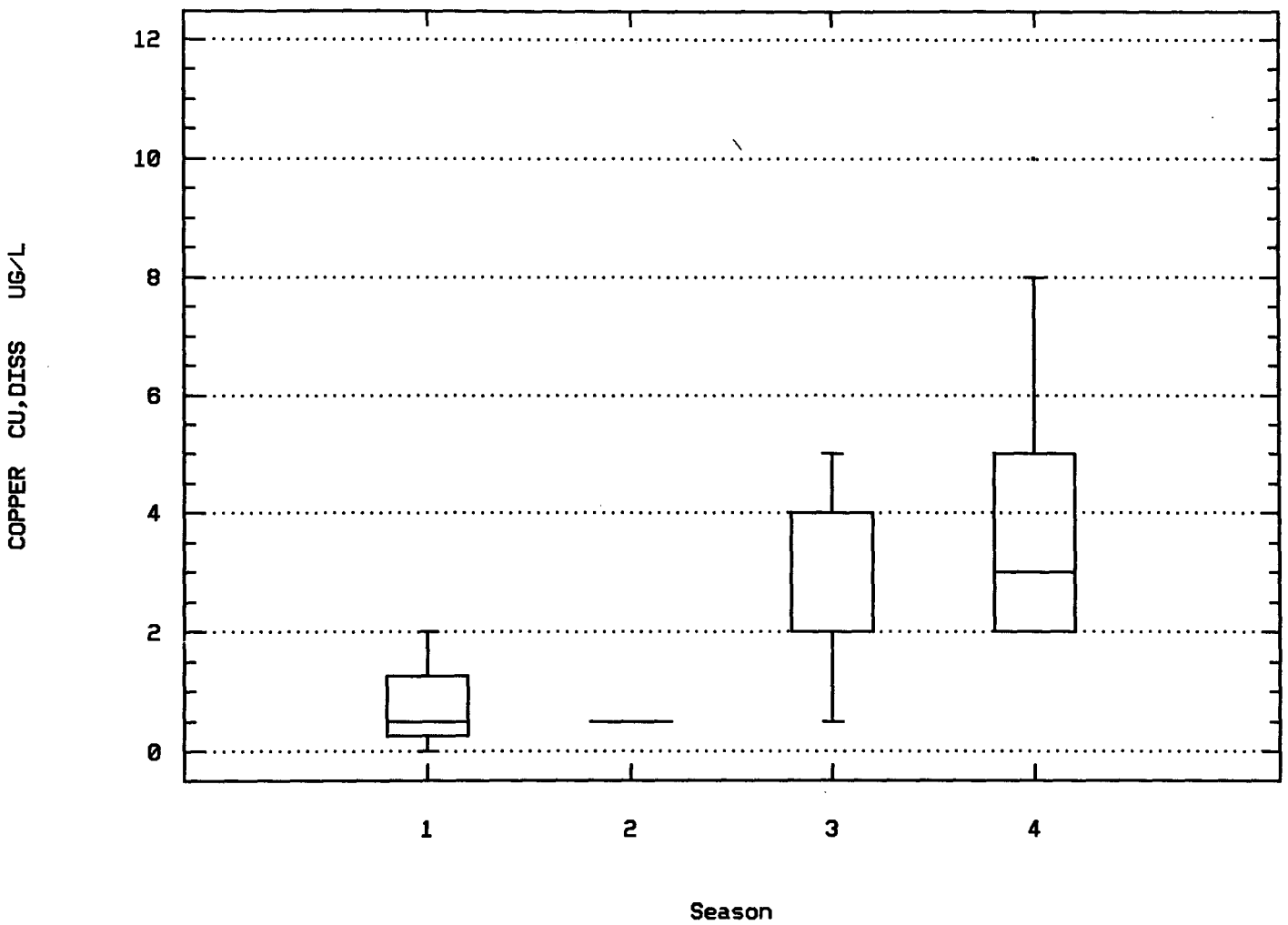
CHROMIUM, DISSOLVED (UG/L AS CR)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 01040

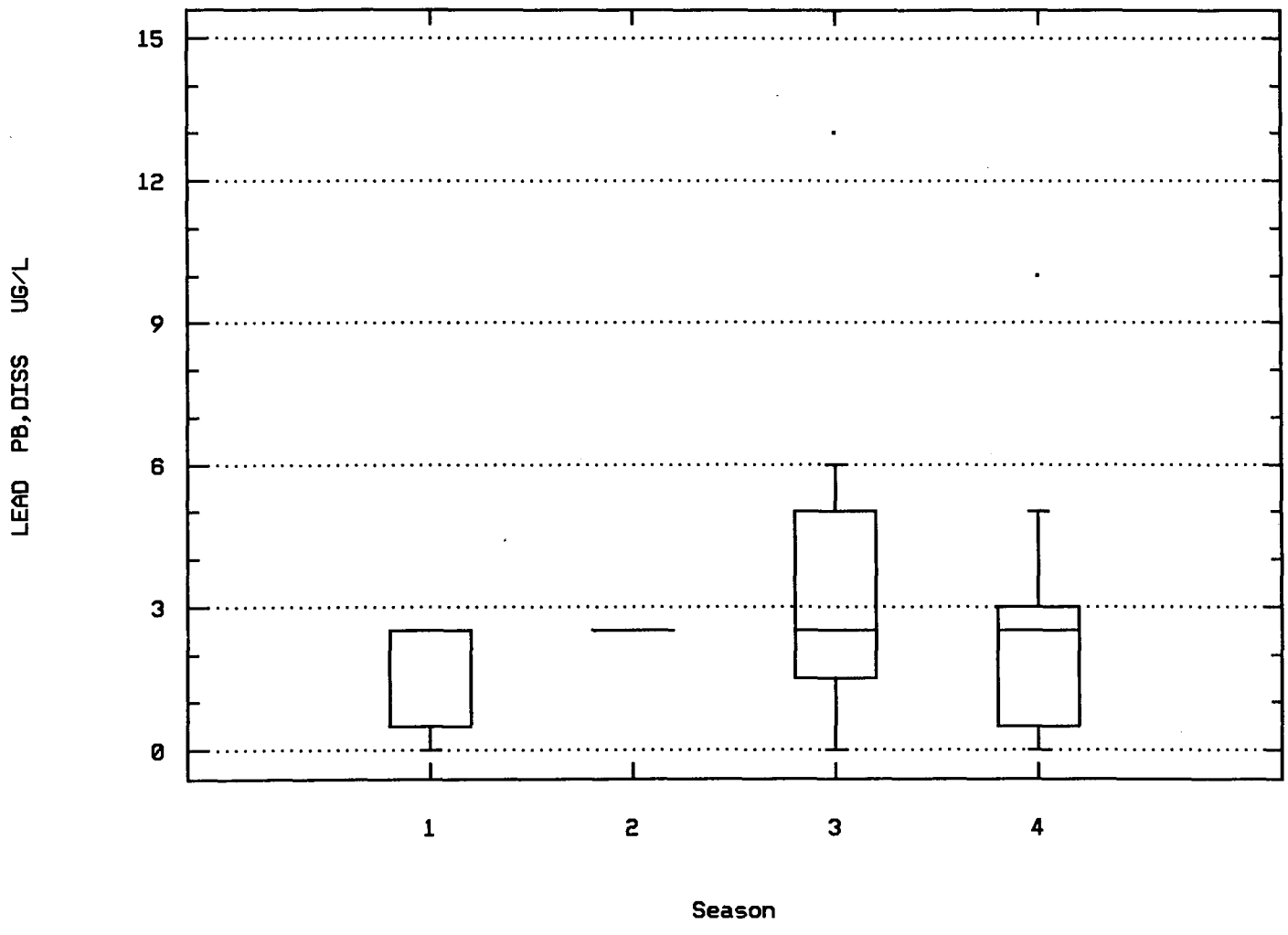
COPPER, DISSOLVED (UG/L AS CU)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 01049

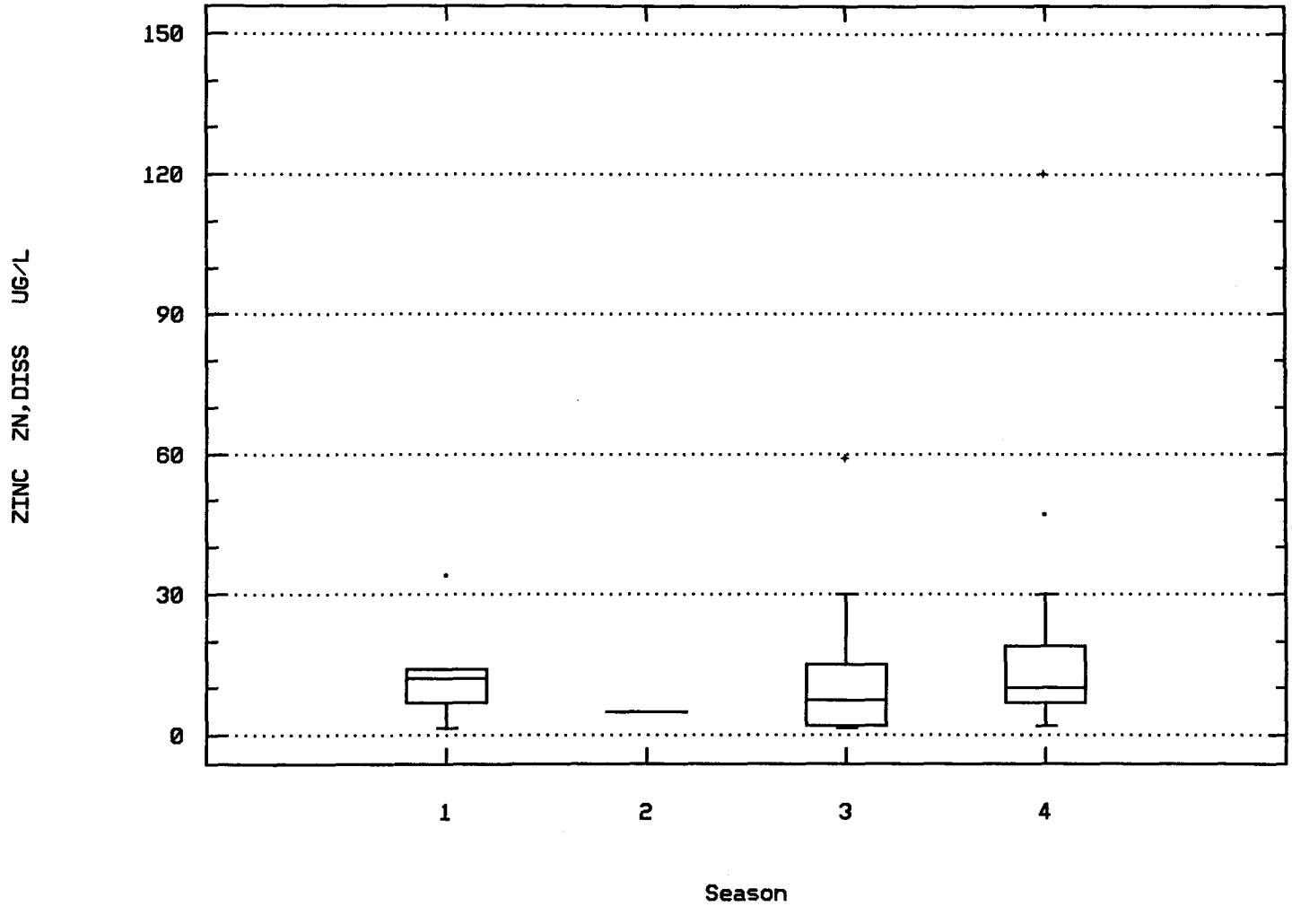
LEAD, DISSOLVED (UG/L AS PB)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 01090

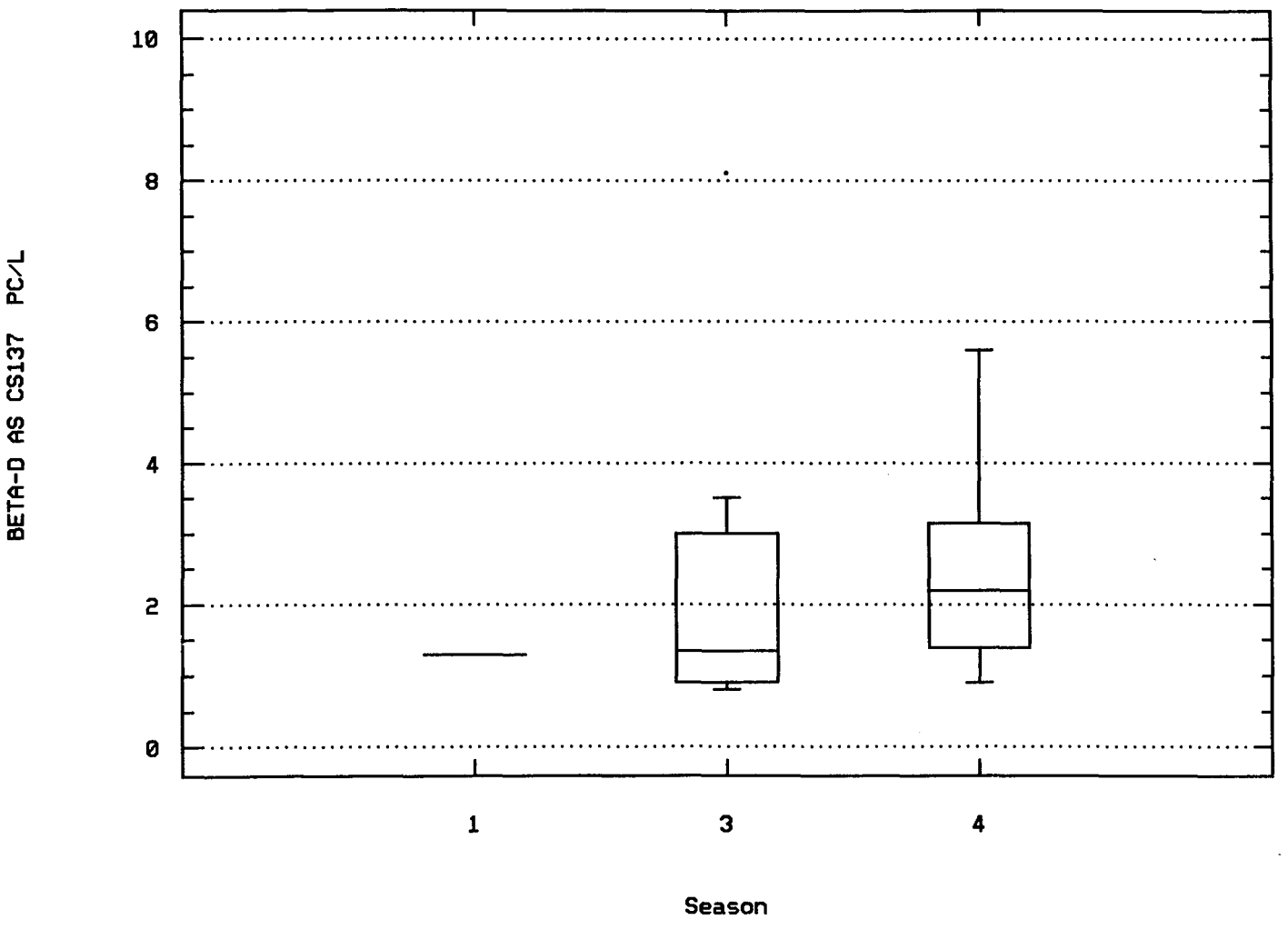
ZINC, DISSOLVED (UG/L AS ZN)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 03515

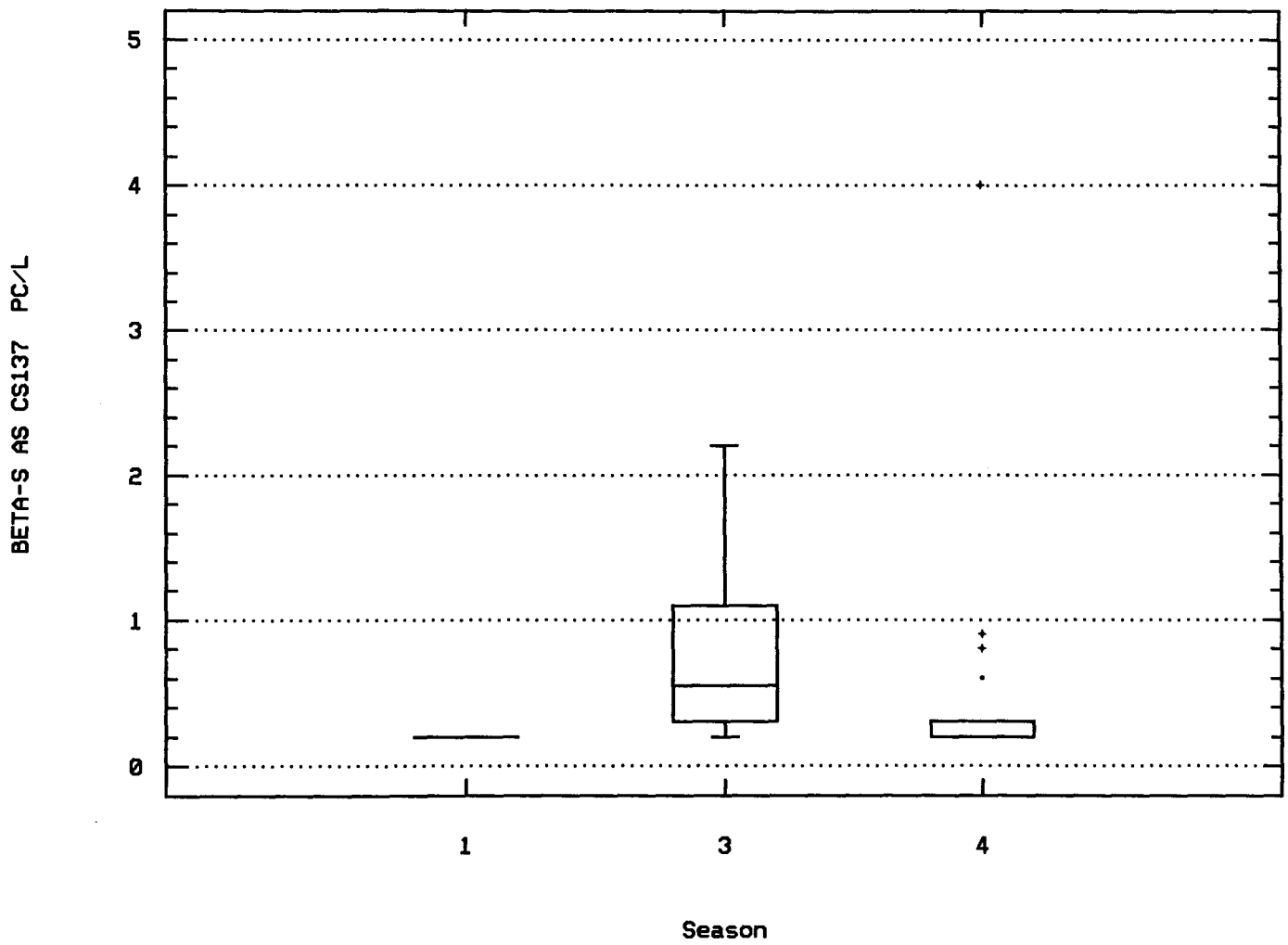
BETA, DISSOLVED GROSS, AS CS-137, PC/L



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 03516

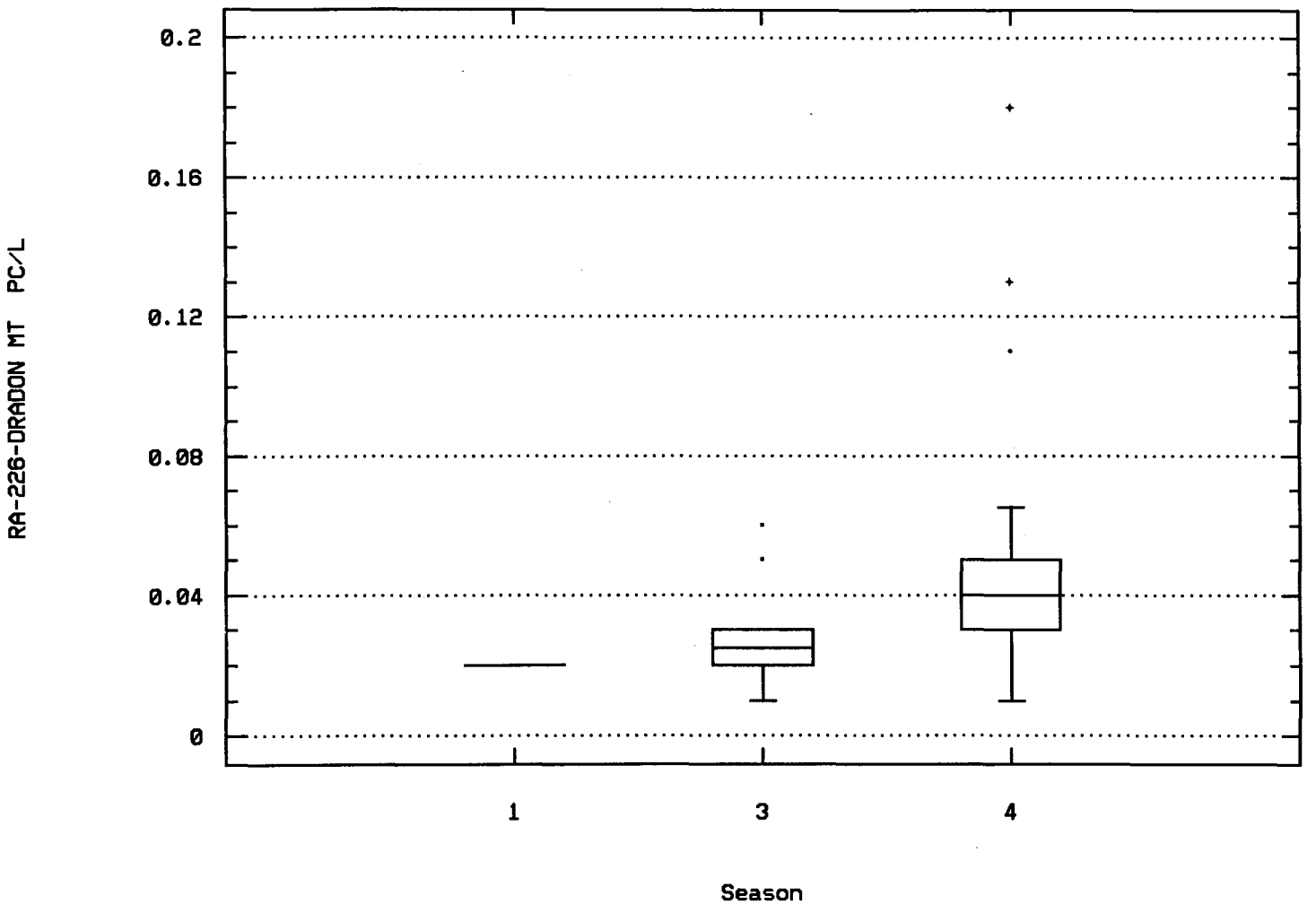
BETA, SUSPENDED GROSS, AS CS-137, PC/L



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 09511

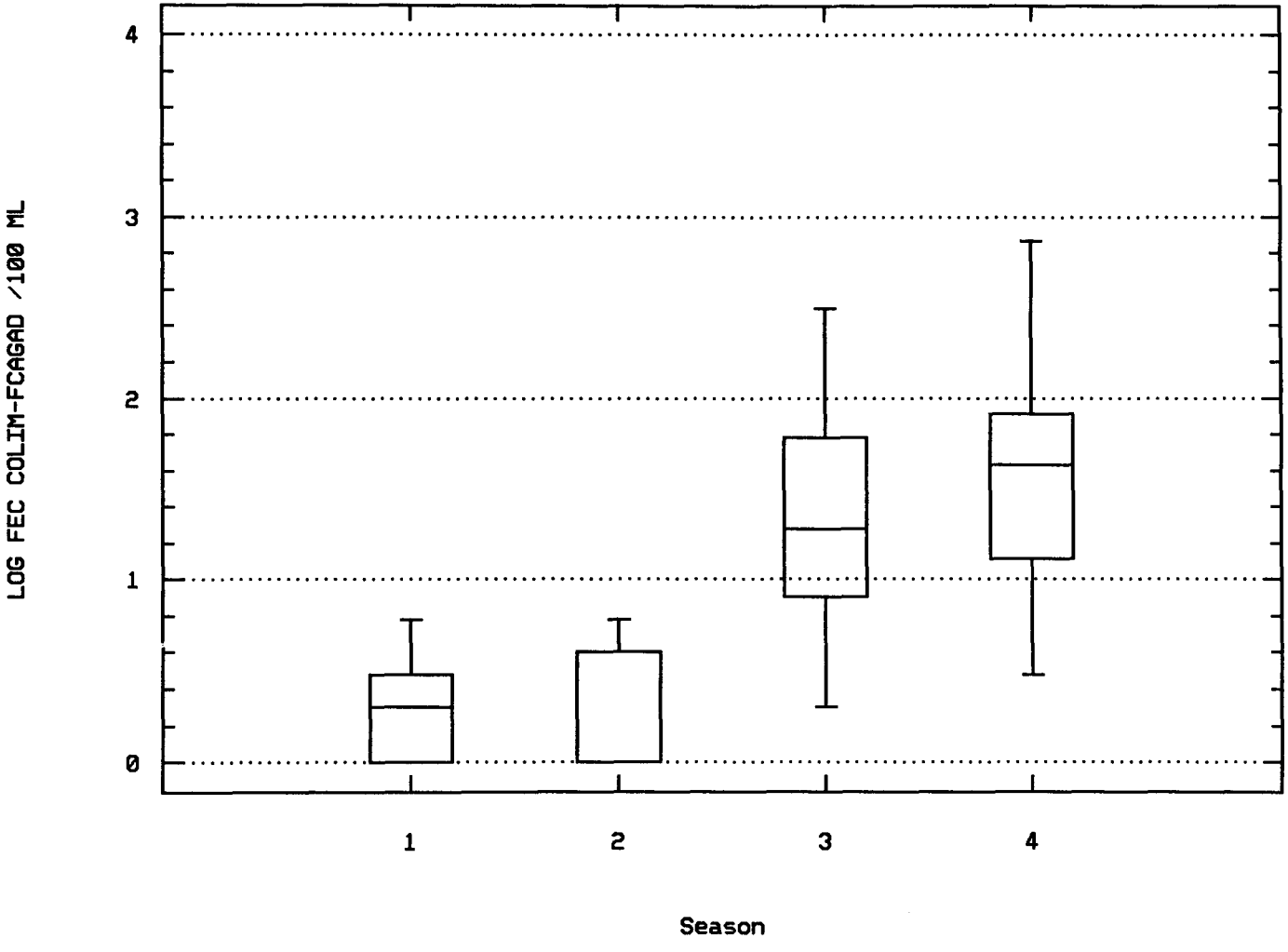
RADIUM 226, DISSOLVED, RADON METHOD



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 31625

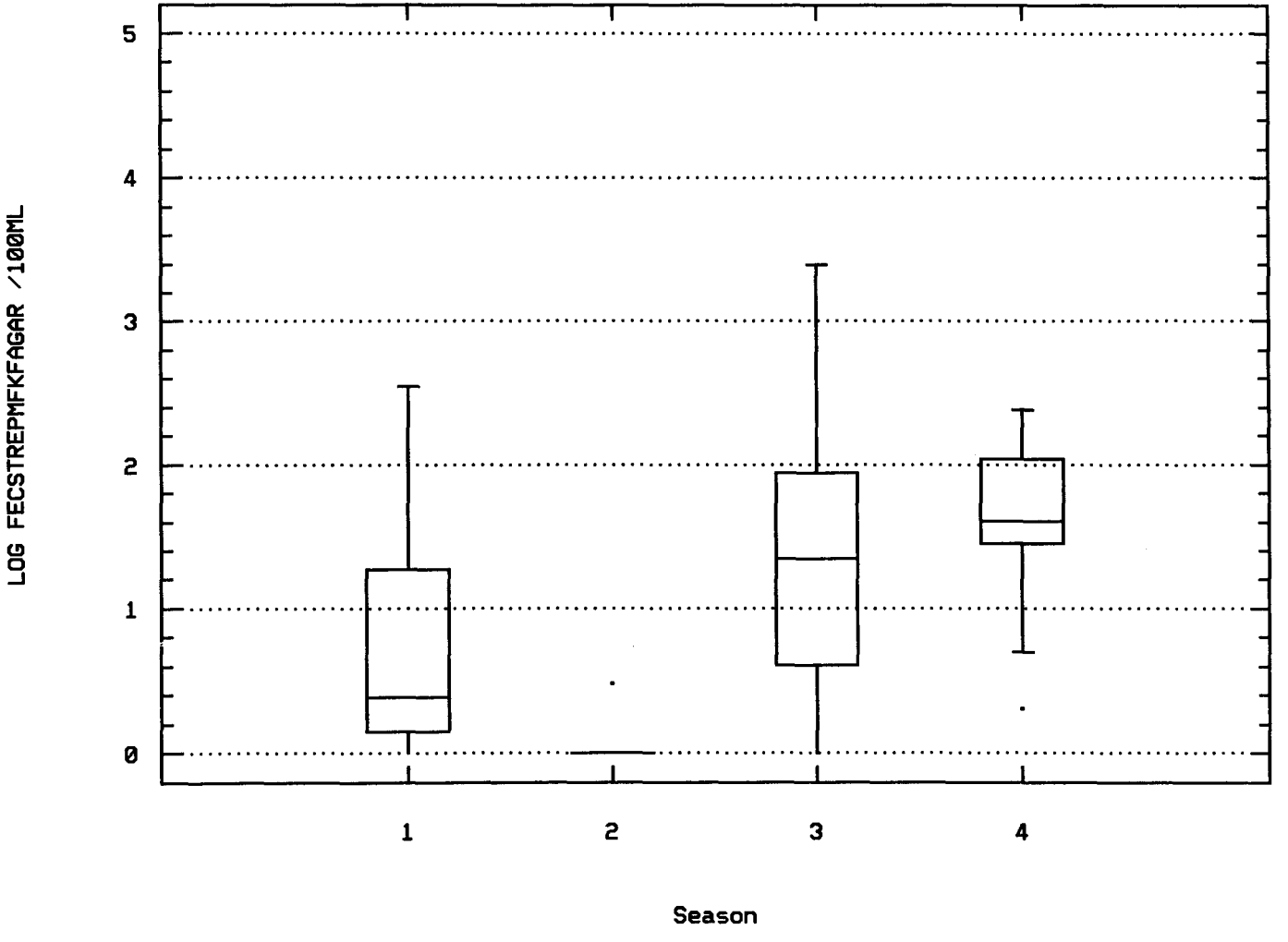
LOG FECAL COLIFORM, MF,M-FC, 0.7 UM



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 31673

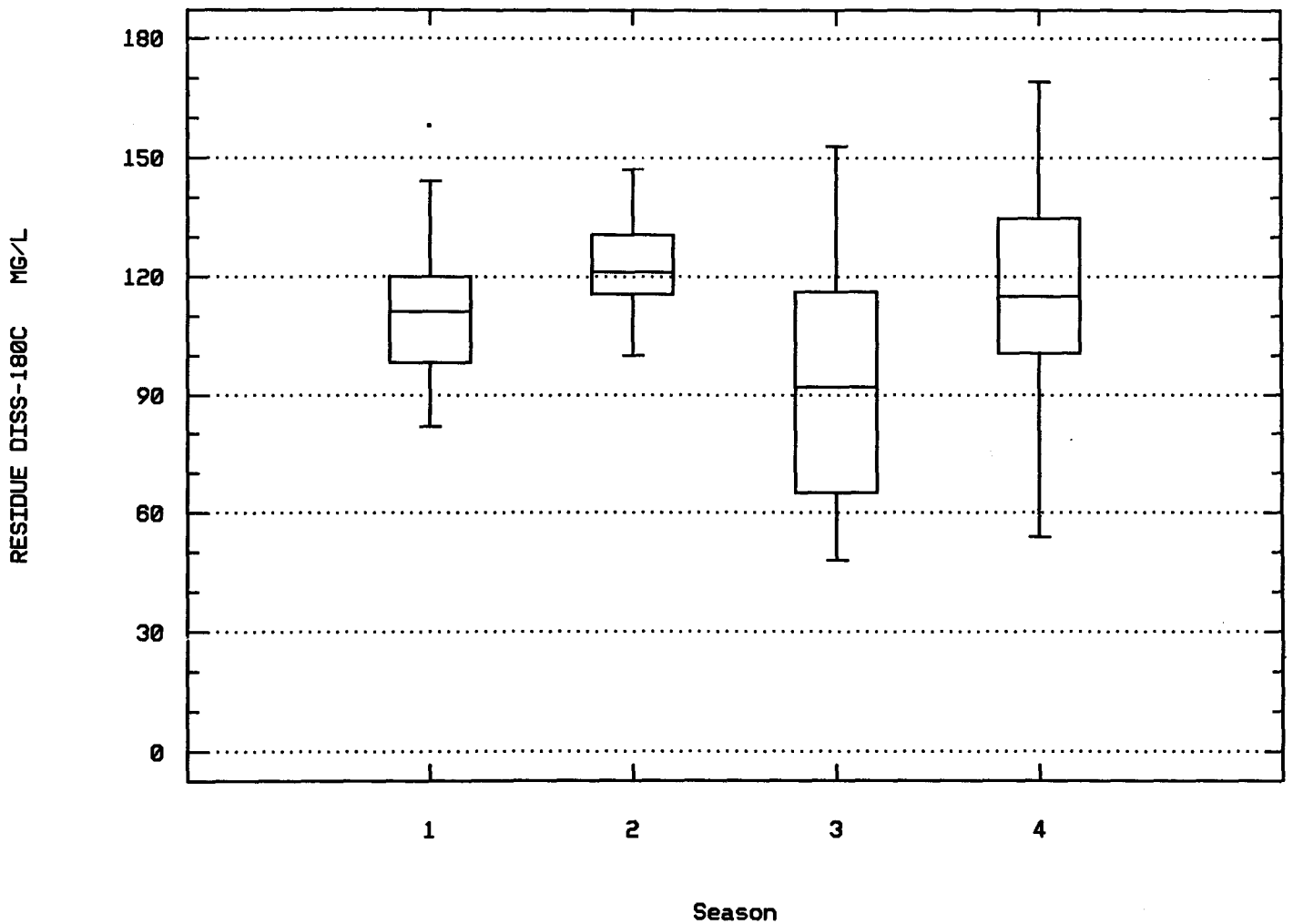
LOG FECAL STREPTOCOCCI, MBR FILT,KF AGA



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 70300

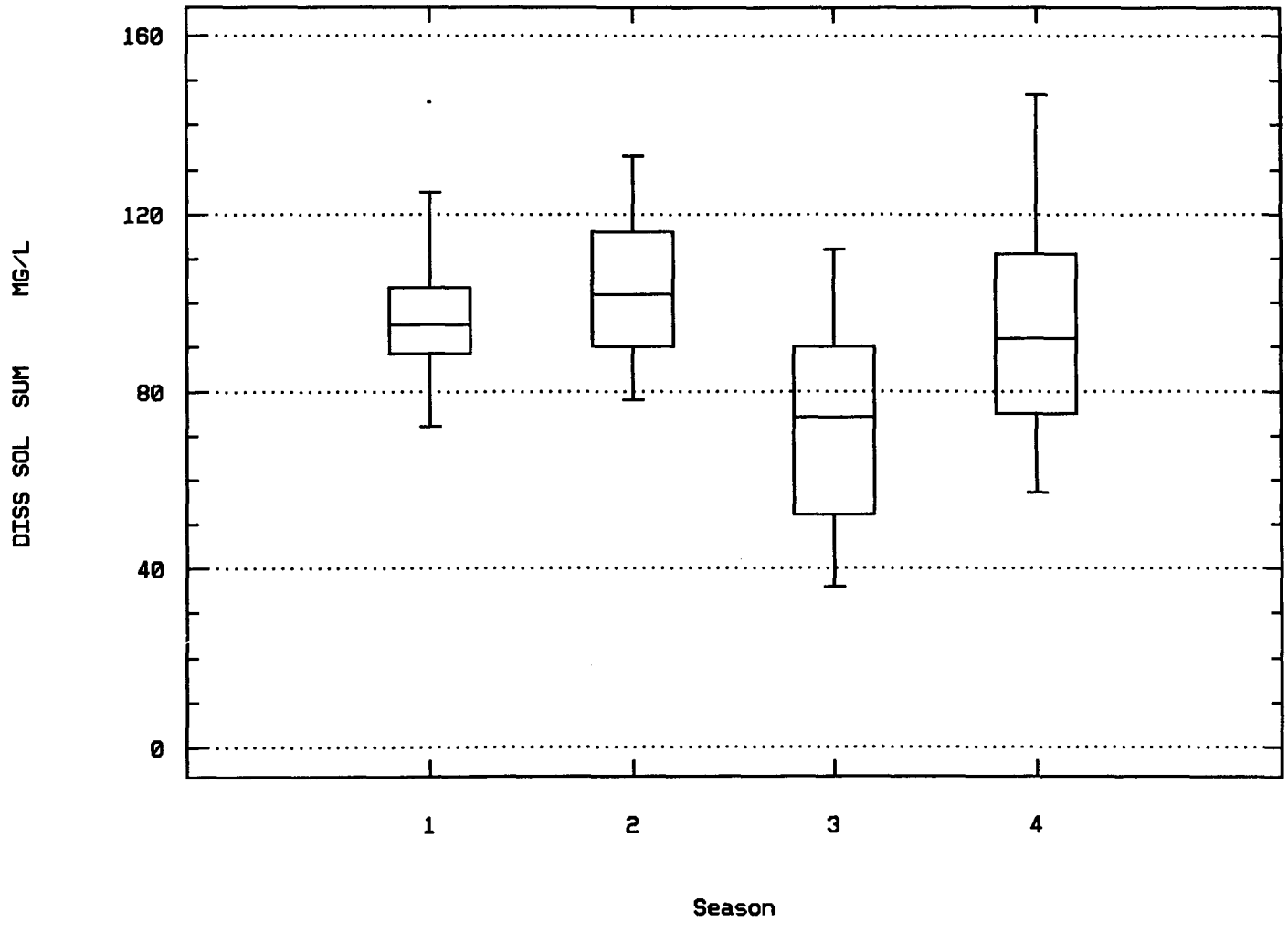
RESIDUE,TOTAL FILTRABLE (DRIED AT 180C)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 70301

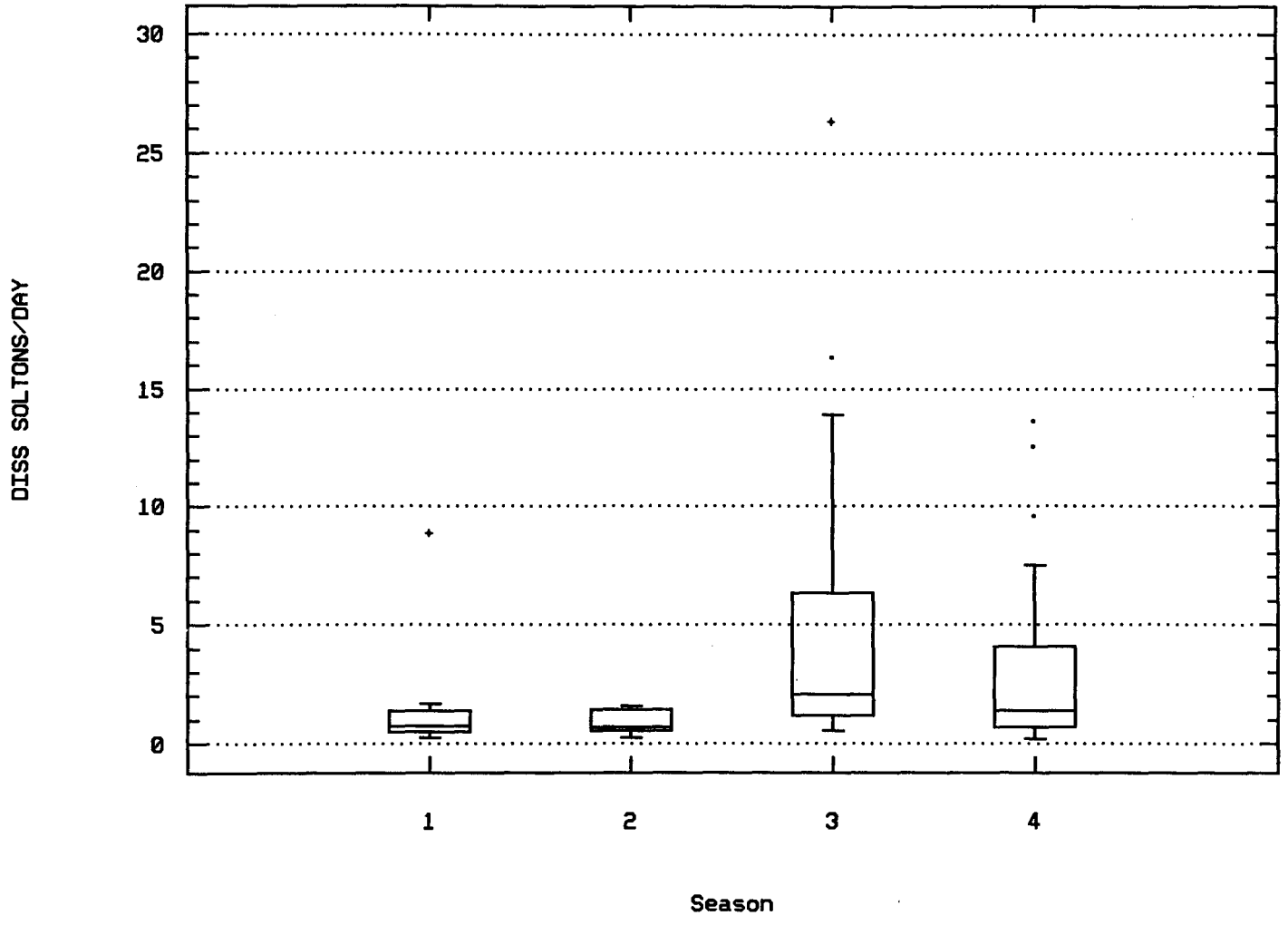
SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 70302

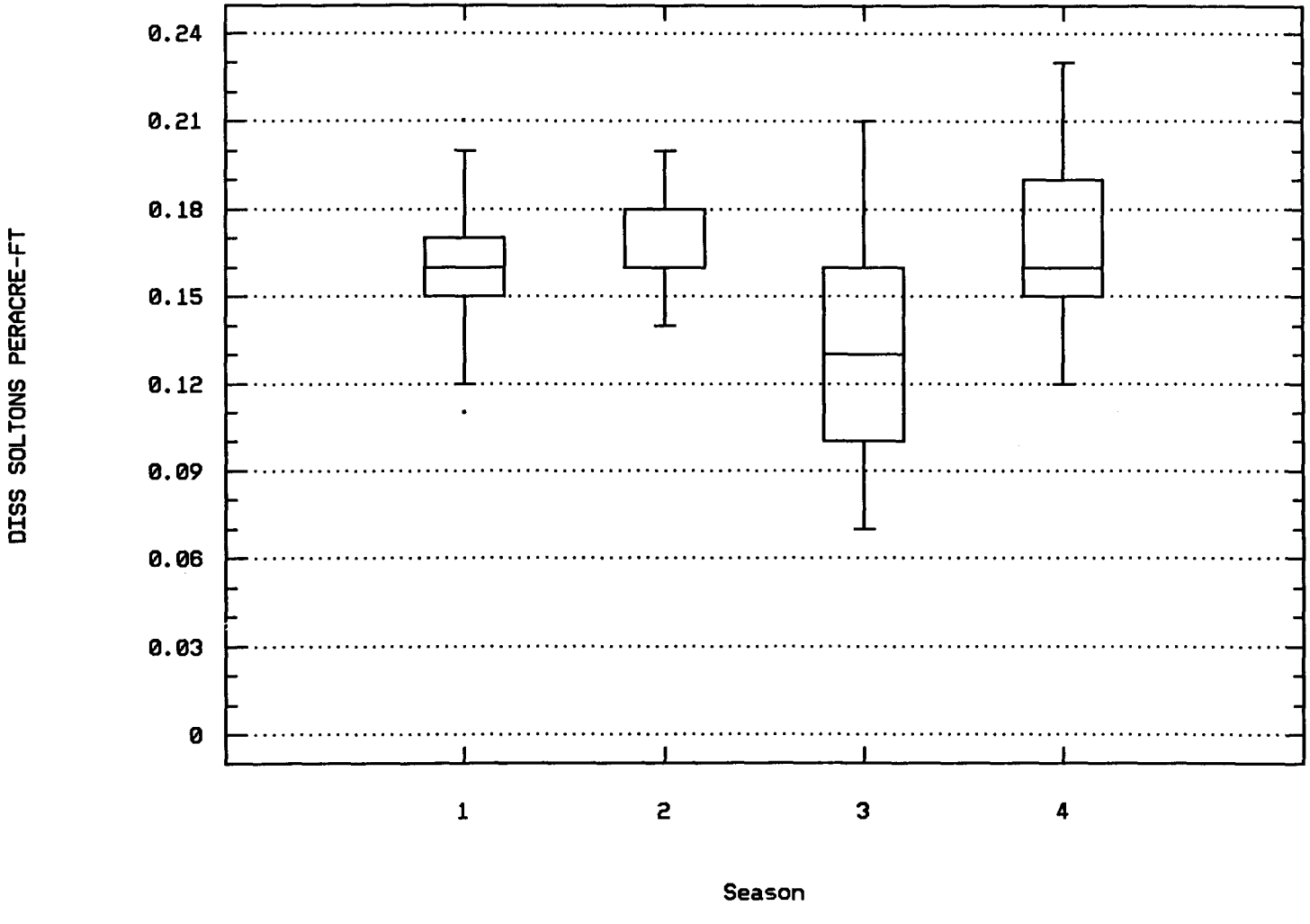
SOLIDS, DISSOLVED-TONS PER DAY



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 70303

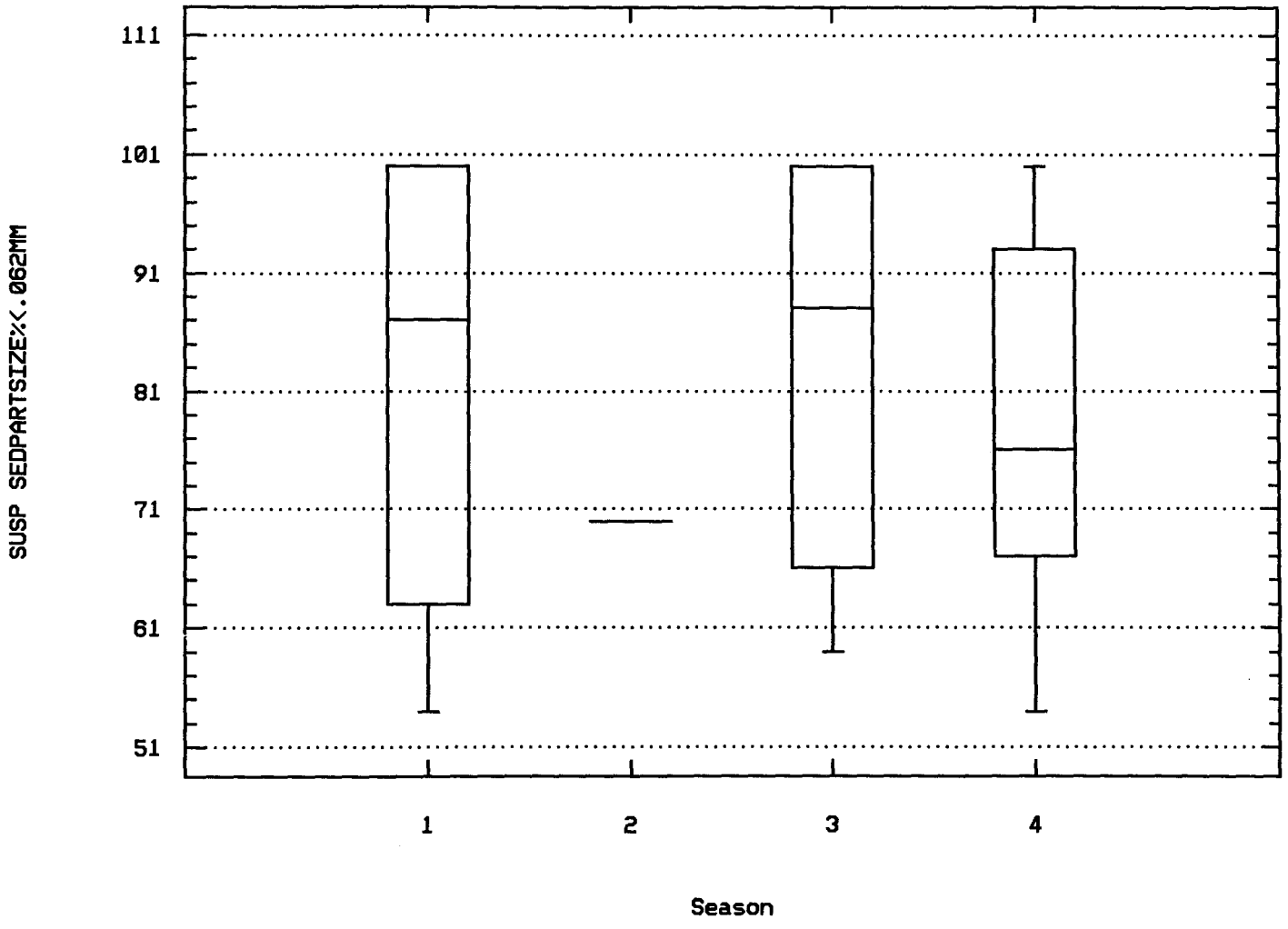
SOLIDS, DISSOLVED-TONS PER ACRE-FT



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 70331

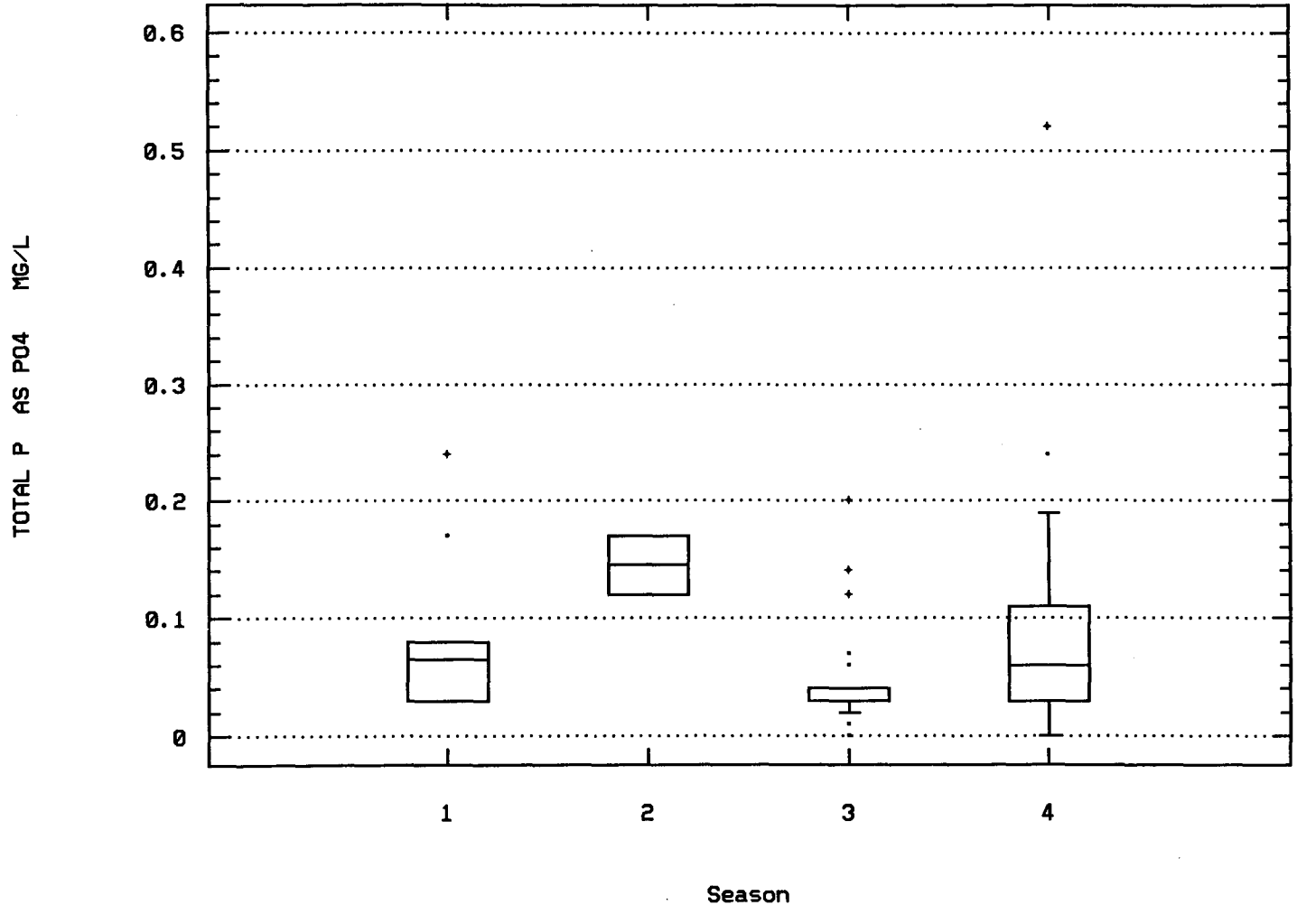
SUSPENDED SED SIEVE DIAMETER,% FINER TH



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 71886

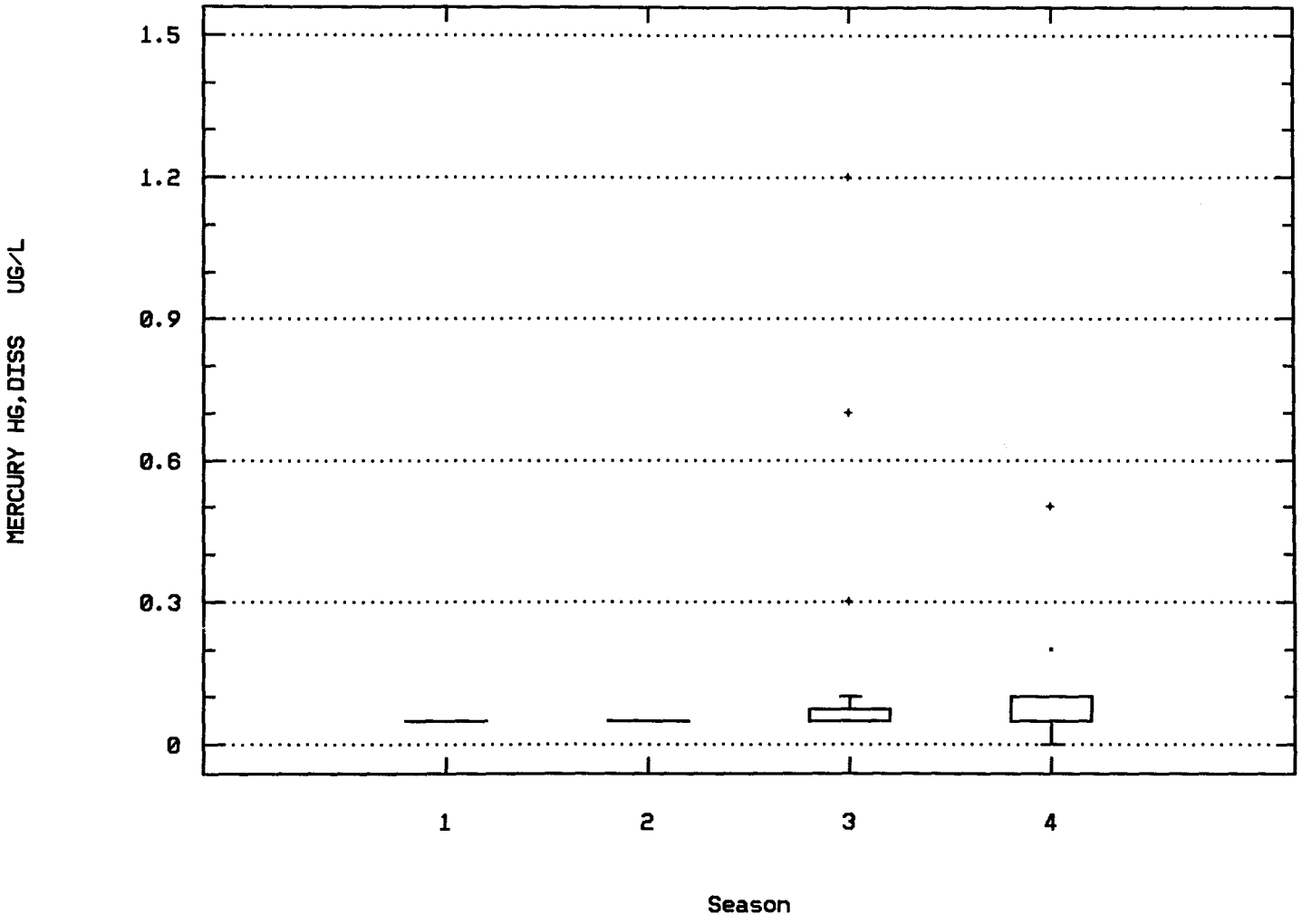
PHOSPHORUS, TOTAL, AS PO4 - MG/L



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 71890

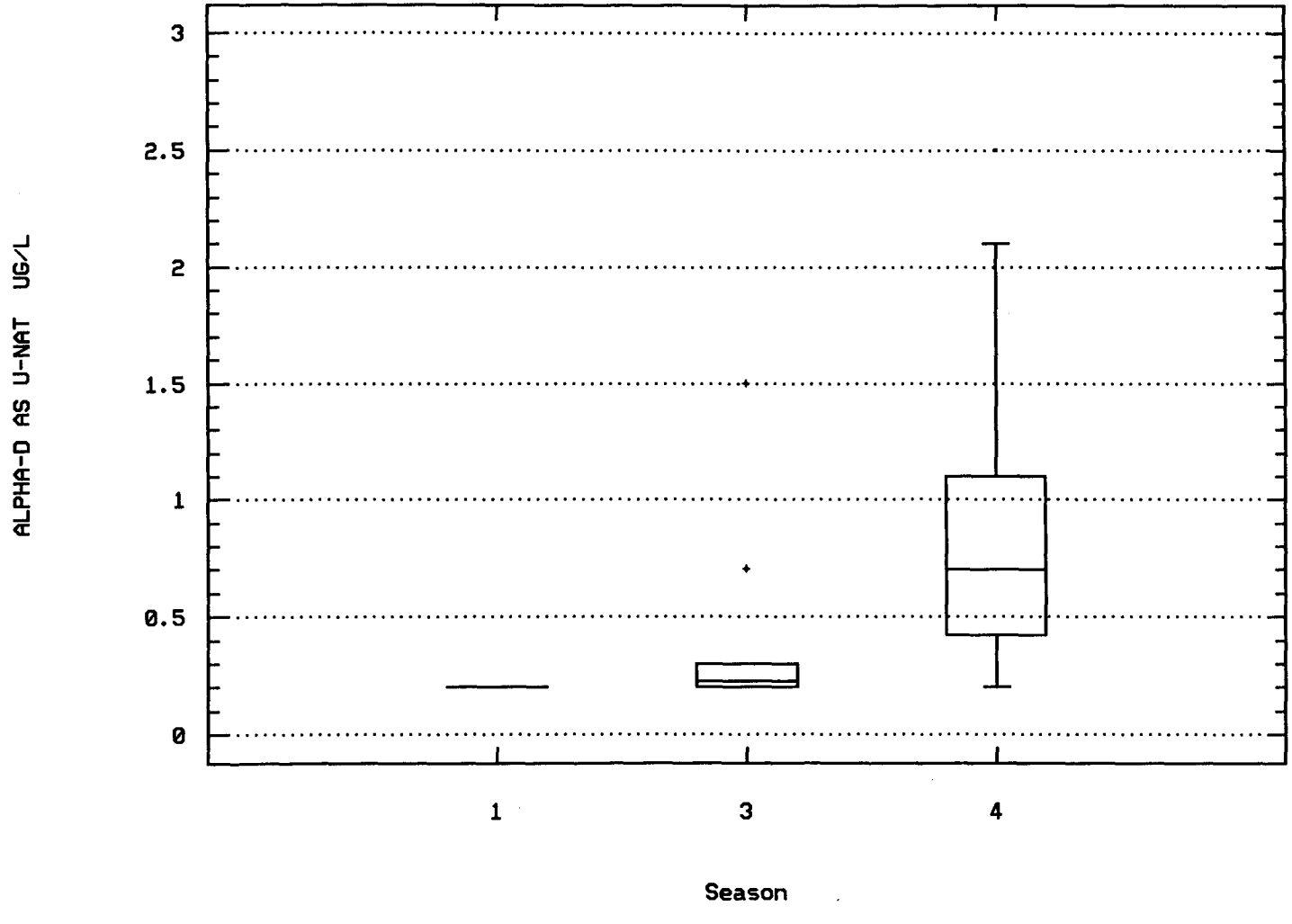
MERCURY, DISSOLVED (UG/L AS HG)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 80030

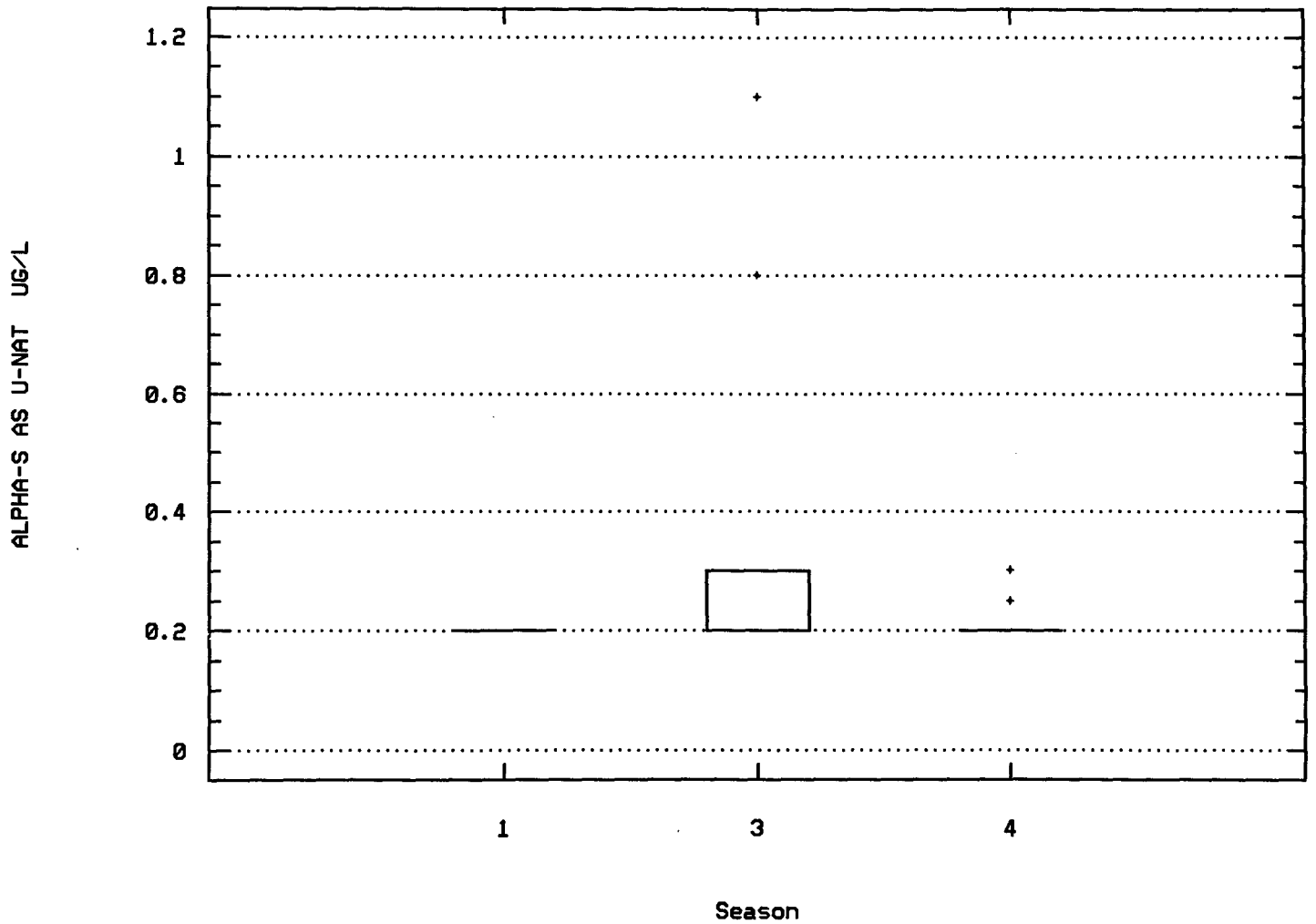
ALPHA,DISSOLVED GROSS,AS URANIUM-NATURA



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 80040

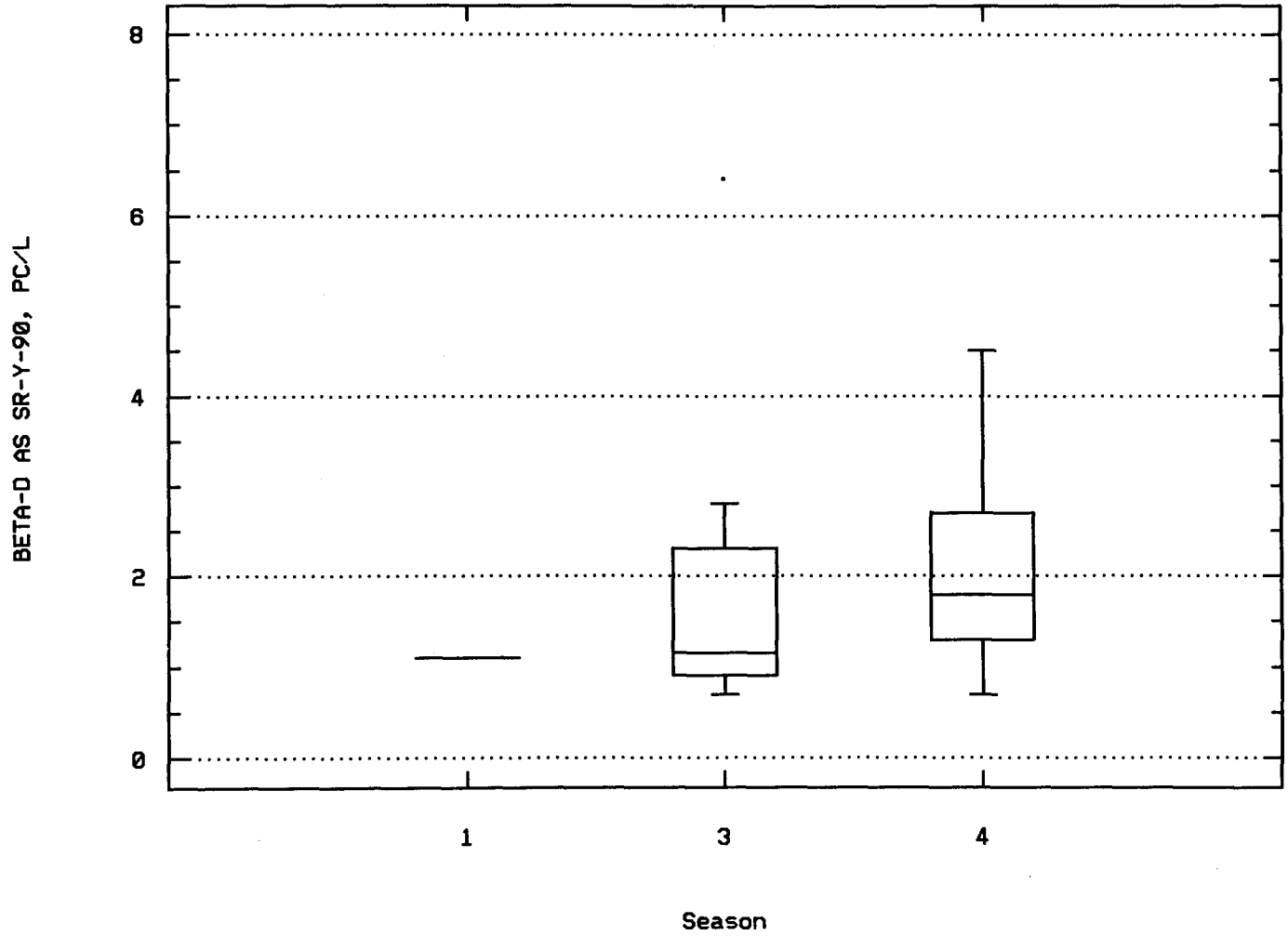
ALPHA,SUSPENDED GROSS, AS URANIUM-NATUR



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 80050

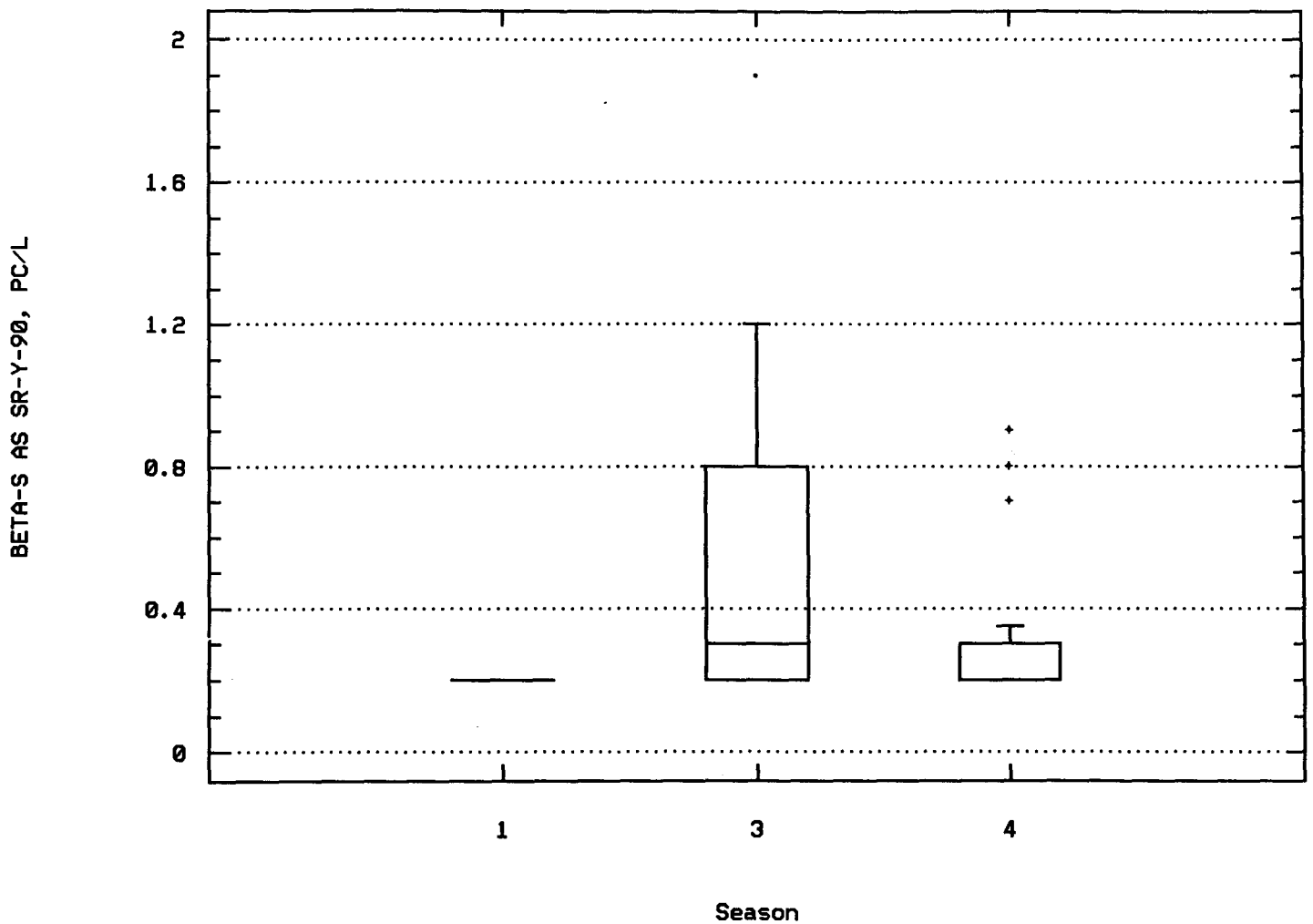
BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 80060

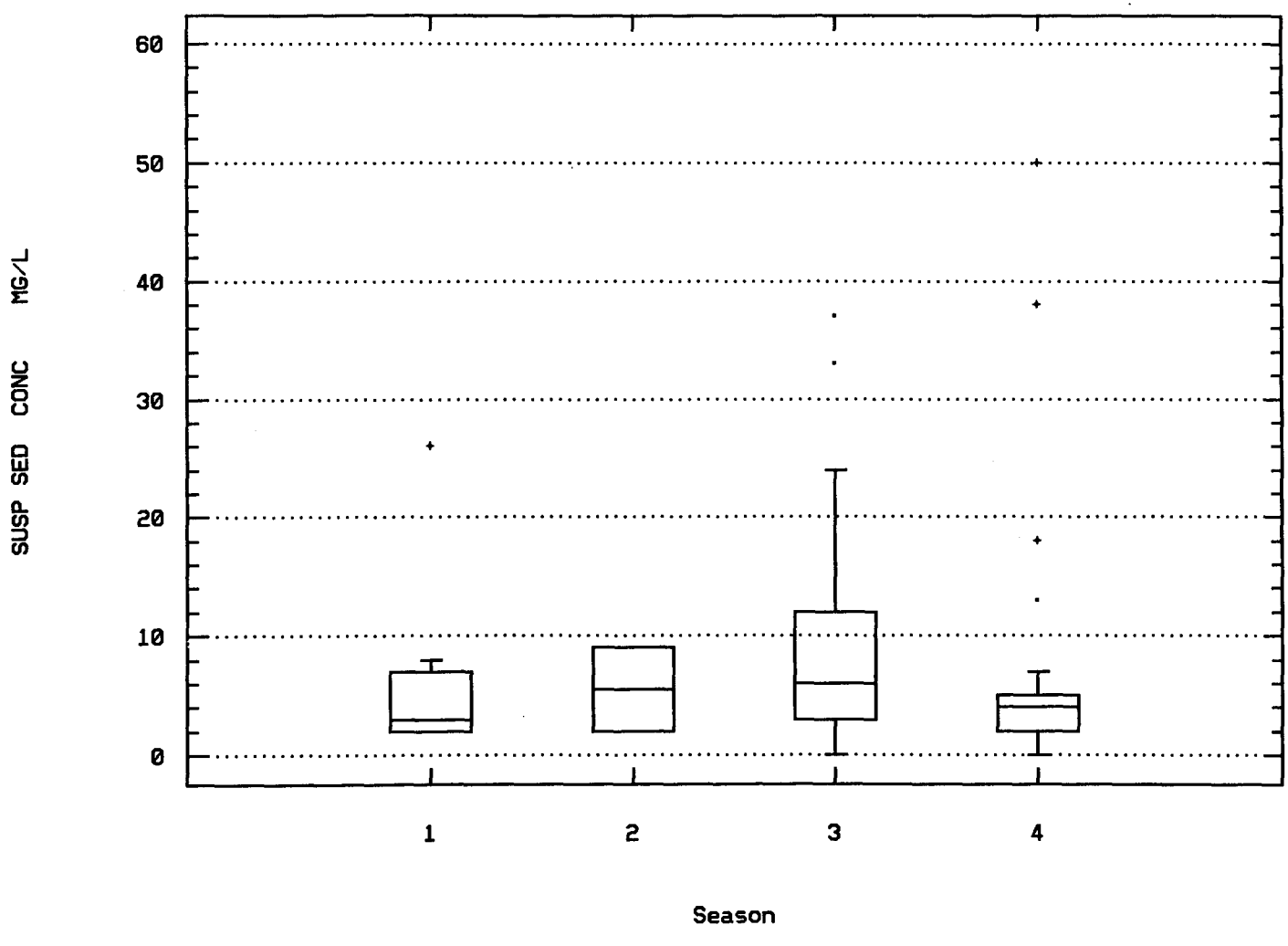
BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISRO0005 Parameter Code: 80154

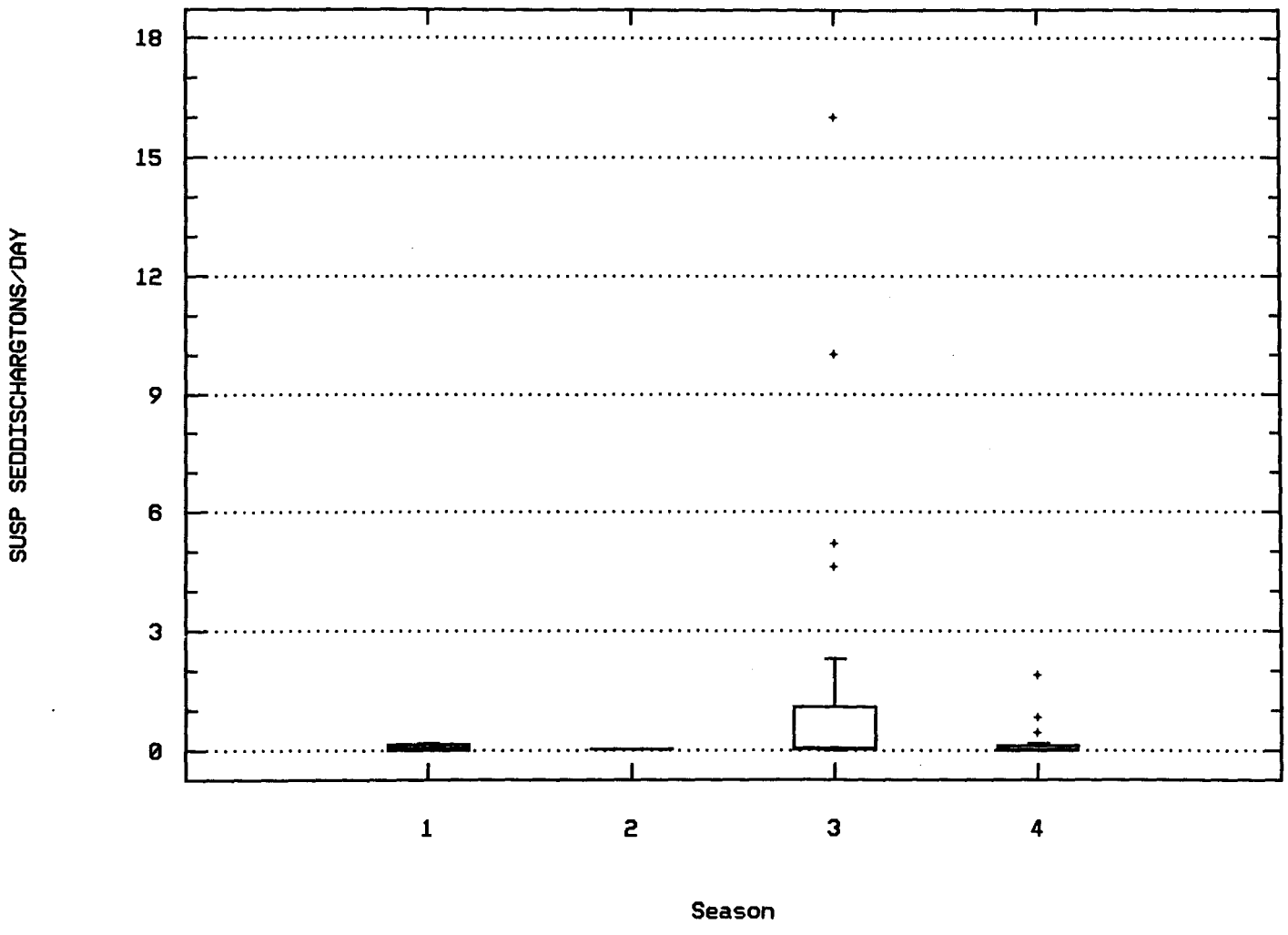
SUSP. SEDIMENT CONCENTRATION-EVAP. AT 1



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station: ISR00005 Parameter Code: 80155

SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)



WASHINGTON CR AT WINDIGO ISLE ROYALE MI

Station Inventory for Station: ISR00006

NPS Station ID: ISR00006 LAT/LON: 47.923059/ -89.145003 Agency: 11NATDC Date Created: 01/18/86
Location: WASHINGTON CR NR WINDIGO ISLE ROYALE FIPS State/County: 26083 MICHIGAN/KEWEENAW
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): T0705350 /2435
RMI-Indexes:
RMI-Miles:
HUC: 04020300 Depth of Water: 0 Aquifer:
Major Basin: L SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: L SUPERIOR ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: ISR00006

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: ISR00007

NPS Station ID: ISR00007 LAT/LON: 47.923059/ -89.145003 Agency: 11BIOACC Date Created: 05/09/92
Location: WASHINGTON CREEK @ ISLE ROYALE FIPS State/County: 27083 MINNESOTA/LYON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 2435
RMI-Indexes:
RMI-Miles:
HUC: 04020300 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: ISR00007

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
30344	PENTACHLORODIBENZO-P-DIOXIN,12378,FISH,WET WT,PG/G	06/26/85-06/26/85	2##	0.875	0.875	0.875	0.875	0.	0.	**	**	**	**
30345	HEXACHLORODIBENZO-P-DIOXIN,123478,FISH,WET WT,PG/G	06/26/85-06/26/85	2##	0.725	0.725	0.725	0.725	0.	0.	**	**	**	**
30346	HEXACHLORODIBENZO-P-DIOXIN,123678,FISH,WET WT,PG/G	06/26/85-06/26/85	2##	0.725	0.725	0.725	0.725	0.	0.	**	**	**	**
30347	HEXACHLORODIBENZO-P-DIOXIN,123789,FISH,WET WT,PG/G	06/26/85-06/26/85	2##	0.725	0.725	0.725	0.725	0.	0.	**	**	**	**
30348	HEPTACHLORODIBENZO-P-DIOXIN,1234678,TIS,WETWT,PG/G	06/26/85-06/26/85	2##	2.19	2.19	2.58	1.8	0.304	0.552	**	**	**	**
30349	TETRACHLORODIBENZOFURAN, 2378- , FISH,WET WT.,PG/G	06/26/85-06/26/85	2##	2.32	2.32	4.4	0.24	8.653	2.942	**	**	**	**
30350	PENTACHLORODIBENZOFURAN,12378- , FISH,WET WT.,PG/G	06/26/85-06/26/85	2##	0.45	0.45	0.45	0.45	0.	0.	**	**	**	**
30351	PENTACHLORODIBENZOFURAN,23478- , FISH,WET WT.,PG/G	06/26/85-06/26/85	1##	0.45	0.45	0.45	0.45	0.	0.	**	**	**	**
30352	HEXACHLORODIBENZOFURAN,123478- , FISH,WET WT.,PG/G	06/26/85-06/26/85	2##	0.73	0.73	0.73	0.73	0.	0.	**	**	**	**
30353	HEXACHLORODIBENZOFURAN,123678- , FISH,WET WT.,PG/G	06/26/85-06/26/85	2##	0.73	0.73	0.73	0.73	0.	0.	**	**	**	**
30354	HEXACHLORODIBENZOFURAN,123789- , FISH,WET WT.,PG/G	06/26/85-06/26/85	2##	0.73	0.73	0.73	0.73	0.	0.	**	**	**	**
30355	HEXACHLORODIBENZOFURAN,234678- , FISH,WET WT.,PG/G	06/26/85-06/26/85	2##	0.73	0.73	0.73	0.73	0.	0.	**	**	**	**
30356	HEPTACHLORODIBENZOFURAN,1234678- ,FISH,WET WT,PG/G	06/26/85-06/26/85	2##	2.065	2.065	2.065	2.065	0.	0.	**	**	**	**
30357	HEPTACHLORODIBENZOFURAN,1234789- ,FISH,WET WT,PG/G	06/26/85-06/26/85	2##	2.065	2.065	2.065	2.065	0.	0.	**	**	**	**
34395	HEXACHLOROBUTADIENE WET WGTTISMG/KG	06/26/85-06/26/85	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34555	1,2,4-TRICHLOROBENZENE WET WGTTISMG/KG	06/26/85-06/26/85	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34685	ENDRIN WET WGTTISMG/KG	06/26/85-06/26/85	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	06/26/85-06/26/85	1	0.011	0.011	0.011	0.011	0.	0.	**	**	**	**
34687	HEPTACHLOR WET WGTTISMG/KG	06/26/85-06/26/85	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34688	HEXACHLOROBENZENE WET WGTTISMG/KG	06/26/85-06/26/85	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
34754	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN TISWETWTPG/G	06/26/85-06/26/85	2##	0.29	0.29	0.29	0.29	0.	0.	**	**	**	**
38824	ISOPROPALIN TISWETWGTMG/KG	06/26/85-06/26/85	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	06/26/85-06/26/85	1	0.027	0.027	0.027	0.027	0.	0.	**	**	**	**
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	06/26/85-06/26/85	1	0.012	0.012	0.012	0.012	0.	0.	**	**	**	**
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	06/26/85-06/26/85	1	0.009	0.009	0.009	0.009	0.	0.	**	**	**	**
39319	MONOCHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	06/26/85-06/26/85	1	0.11	0.11	0.11	0.11	0.	0.	**	**	**	**
39335	DICHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39339	TRICHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39345	TETRACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	1	0.007	0.007	0.007	0.007	0.	0.	**	**	**	**
39347	PENTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	1	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39354	HEPTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	1	0.017	0.017	0.017	0.017	0.	0.	**	**	**	**
39355	OCTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	06/26/85-06/26/85	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
39408	NONACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	1##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
39409	DECACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	1##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	06/26/85-06/26/85	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
46333	PENTACHLORONITROBENZENE (PCNB) IN TISSUE WET MG/KG	06/26/85-06/26/85	1##	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: ISR00007

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70977	INSTRUMENT RATIO, LAB/FIELD CONCENTRATIONS, NUMBER	06/26/85-06/26/85	2	0.555	0.555	1.09	0.02	0.572	0.757	**	**	**	**
71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	06/26/85-06/26/85	2	0.09	0.09	0.1	0.08	0.	0.014	**	**	**	**
76530	BIPHENYL TISSUE ,WET WGT,MG/KG	06/26/85-06/26/85	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78907	HEXACHLOROBIPHENYLS IN FISH TISSUE WET WGT. MG/KG	06/26/85-06/26/85	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	06/26/85-06/26/85	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	06/26/85-06/26/85	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
79026	1,2,3,4,-TETRACHLOROBENZENE IN FISH WET WGT MG/KG	06/26/85-06/26/85	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
81312	POLYCHLORINATEDBIPHENYLS FISH TISSUE WET WGT MG/KG	06/26/85-06/26/85	1	0.115	0.115	0.115	0.115	0.	0.	**	**	**	**
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	06/26/85-06/26/85	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	06/26/85-06/26/85	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
81652	TREFLAN IN FISH TISSUE WET WEIGHT MG/KG	06/26/85-06/26/85	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
81807	DURSBAN IN FISH TISSUE WET WEIGHT MG/KG	06/26/85-06/26/85	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
81823	PENTACHLOROANISOLE(PCA)INFISH TISSUE WET WGT MG/KG	06/26/85-06/26/85	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	06/26/85-06/26/85	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
85675	TRICHLOROBENZENE,1,3,5- TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85676	TRICHLOROBENZENE,1,2,3- TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85677	TETRACHLOROBENZENE,1,2,4,5- TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85678	TETRACHLOROBENZENE,1,2,3,5- TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85679	PENTACHLOROBENZENE TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85680	DIPHENYL DISULFIDE TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85681	OCTACHLOROSTYRENE TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85682	NITROFEN TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85683	PERTHANE TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85684	DICOFOL (KELTHANE) TISSUE,WET,WT,MG/KG	06/26/85-06/26/85	1##	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

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

Station Inventory for Station: ISR00008

NPS Station ID: ISR00008 LAT/LON: 47.929726/ -89.129726 Agency: 112WRD Date Created: 01/09/93
Location: TWICE TRIED TRIB ISLE ROYALE MI FIPS State/County: 26083 MICHIGAN/KEWEENAW
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 475547089074700
RMI-Indexes:
RMI-Miles:
HUC: Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: ISR00008

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403 PH, LAB, STANDARD UNITS SU	09/21/92-09/21/92	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	09/21/92-09/21/92	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/21/92-09/21/92	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00602 NITROGEN, DISSOLVED (MG/L AS N)	09/21/92-09/21/92	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00608 NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	09/21/92-09/21/92	1	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/21/92-09/21/92	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/21/92-09/21/92	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/21/92-09/21/92	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)	09/21/92-09/21/92	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	09/21/92-09/21/92	1	4.9	4.9	4.9	4.9	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	09/21/92-09/21/92	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	09/21/92-09/21/92	1	0.47	0.47	0.47	0.47	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	09/21/92-09/21/92	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	09/21/92-09/21/92	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	09/21/92-09/21/92	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SI02)	09/21/92-09/21/92	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)	09/21/92-09/21/92	1	660.	660.	660.	660.	0.	0.	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS MN)	09/21/92-09/21/92	1	7.	7.	7.	7.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: ISR00008

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00613 NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00										1	0	0.00
00631 NITRATE 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
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: ISR00009

NPS Station ID: ISR00009 LAT/LON: 47.931392/ -89.130003 Agency: 112WRD Date Created: 01/09/93
Location: FIRST DAY TRIB ISLE ROYALE MI FIPS State/County: 26083 MICHIGAN/KEWEENAW
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 475553089074800
RMI-Indexes:
RMI-Miles:
HUC: Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: ISR00009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403 PH, LAB, STANDARD UNITS	SU	09/19/92-09/19/92	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		09/19/92-09/19/92	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		09/19/92-09/19/92	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00602 NITROGEN, DISSOLVED (MG/L AS N)		09/19/92-09/19/92	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00608 NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)		09/19/92-09/19/92	1	0.031	0.031	0.031	0.031	0.	0.	**	**	**	**
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)		09/19/92-09/19/92	1	0.009	0.009	0.009	0.009	0.	0.	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)		09/19/92-09/19/92	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		09/19/92-09/19/92	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)		09/19/92-09/19/92	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)		09/19/92-09/19/92	1	5.1	5.1	5.1	5.1	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)		09/19/92-09/19/92	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)		09/19/92-09/19/92	1	0.46	0.46	0.46	0.46	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER	MG/L	09/19/92-09/19/92	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		09/19/92-09/19/92	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)		09/19/92-09/19/92	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SIO2)		09/19/92-09/19/92	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)		09/19/92-09/19/92	1	590.	590.	590.	590.	0.	0.	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS MN)		09/19/92-09/19/92	1	18.	18.	18.	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: ISR00009

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00613 NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00										1	0	0.00
00631 NITRATE 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
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: ISRO0010

NPS Station ID: ISRO0010 LAT/LON: 47.933615/ -89.130559 Agency: 112WRD Date Created: 01/09/93
Location: TRIB AT TRAIL CROSSING ISLE ROYALE MI FIPS State/County: 26083 MICHIGAN/KEWEENAW
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 475601089075000
RMI-Indexes:
RMI-Miles:
HUC: Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: ISRO0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403 PH, LAB, STANDARD UNITS	SU	09/20/92-09/20/92	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		09/20/92-09/20/92	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		09/20/92-09/20/92	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00602 NITROGEN, DISSOLVED (MG/L AS N)		09/20/92-09/20/92	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00608 NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)		09/20/92-09/20/92	1	0.024	0.024	0.024	0.024	0.	0.	**	**	**	**
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)		09/20/92-09/20/92	1	0.007	0.007	0.007	0.007	0.	0.	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)		09/20/92-09/20/92	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		09/20/92-09/20/92	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)		09/20/92-09/20/92	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)		09/20/92-09/20/92	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)		09/20/92-09/20/92	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)		09/20/92-09/20/92	1	0.49	0.49	0.49	0.49	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER	MG/L	09/20/92-09/20/92	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		09/20/92-09/20/92	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)		09/20/92-09/20/92	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SI02)		09/20/92-09/20/92	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)		09/20/92-09/20/92	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS MN)		09/20/92-09/20/92	1	6.	6.	6.	6.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: ISRO0010

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00613 NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00										1	0	0.00
00631 NITRATE 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
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: ISR00011

NPS Station ID: ISR00011 LAT/LON: 47.935559/ -89.131392 Agency: 112WRD Date Created: 01/09/93
Location: BURN AREA TRIB ISLE ROYALE MI FIPS State/County: 26083 MICHIGAN/KEWEENAW
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 475608089075300
RMI-Indexes:
RMI-Miles:
HUC: Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: ISR00011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403 PH, LAB, STANDARD UNITS	SU	09/20/92-09/20/92	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		09/20/92-09/20/92	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		09/20/92-09/20/92	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00602 NITROGEN, DISSOLVED (MG/L AS N)		09/20/92-09/20/92	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00608 NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)		09/20/92-09/20/92	1	0.037	0.037	0.037	0.037	0.	0.	**	**	**	**
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)		09/20/92-09/20/92	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)		09/20/92-09/20/92	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		09/20/92-09/20/92	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)		09/20/92-09/20/92	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)		09/20/92-09/20/92	1	4.8	4.8	4.8	4.8	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)		09/20/92-09/20/92	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)		09/20/92-09/20/92	1	0.48	0.48	0.48	0.48	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER	MG/L	09/20/92-09/20/92	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		09/20/92-09/20/92	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)		09/20/92-09/20/92	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SI02)		09/20/92-09/20/92	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)		09/20/92-09/20/92	1	700.	700.	700.	700.	0.	0.	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS MN)		09/20/92-09/20/92	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

EPA Water Quality Criteria Analysis for Station: ISR00011

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00613 NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00										1	0	0.00
00631 NITRATE 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
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: ISR00012

NPS Station ID: ISR00012 LAT/LON: 47.936392/ -89.088059 Agency: 112WRD Date Created: 01/09/93
Location: S FORK WASHINGTON CR ISLE ROYALE MI FIPS State/County: 26083 MICHIGAN/KEWEENAW
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 475611089051700
RMI-Indexes:
RMI-Miles:
HUC: Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: ISR00012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403 PH, LAB, STANDARD UNITS	SU	09/21/92-09/21/92	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		09/21/92-09/21/92	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		09/21/92-09/21/92	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00602 NITROGEN, DISSOLVED (MG/L AS N)		09/21/92-09/21/92	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00608 NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)		09/21/92-09/21/92	1	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)		09/21/92-09/21/92	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)		09/21/92-09/21/92	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		09/21/92-09/21/92	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)		09/21/92-09/21/92	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)		09/21/92-09/21/92	1	4.8	4.8	4.8	4.8	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)		09/21/92-09/21/92	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)		09/21/92-09/21/92	1	0.42	0.42	0.42	0.42	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER	MG/L	09/21/92-09/21/92	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		09/21/92-09/21/92	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)		09/21/92-09/21/92	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SI02)		09/21/92-09/21/92	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)		09/21/92-09/21/92	1	170.	170.	170.	170.	0.	0.	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS MN)		09/21/92-09/21/92	1	6.	6.	6.	6.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: ISR00012

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00613 NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00										1	0	0.00
00631 NITRATE 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
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: ISR00013

NPS Station ID: ISR00013 LAT/LON: 47.936948/ -89.088615 Agency: 112WRD Date Created: 01/09/93
Location: N FORK WASHINGTON CR ISLE ROYALE MI FIPS State/County: 26083 MICHIGAN/KEWEENAW
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 475613089051900
RMI-Indexes:
RMI-Miles:
HUC: Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: ISR00013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403 PH, LAB, STANDARD UNITS	SU	09/21/92-09/21/92	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		09/21/92-09/21/92	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		09/21/92-09/21/92	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00602 NITROGEN, DISSOLVED (MG/L AS N)		09/21/92-09/21/92	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00608 NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)		09/21/92-09/21/92	1	0.052	0.052	0.052	0.052	0.	0.	**	**	**	**
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)		09/21/92-09/21/92	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)		09/21/92-09/21/92	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		09/21/92-09/21/92	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)		09/21/92-09/21/92	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)		09/21/92-09/21/92	1	4.3	4.3	4.3	4.3	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)		09/21/92-09/21/92	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)		09/21/92-09/21/92	1	0.24	0.24	0.24	0.24	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER	MG/L	09/21/92-09/21/92	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		09/21/92-09/21/92	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)		09/21/92-09/21/92	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SI02)		09/21/92-09/21/92	1	9.1	9.1	9.1	9.1	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)		09/21/92-09/21/92	1	430.	430.	430.	430.	0.	0.	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS MN)		09/21/92-09/21/92	1	27.	27.	27.	27.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: ISR00013

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00613 NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00										1	0	0.00
00631 NITRATE 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
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: ISR00014

NPS Station ID: ISR00014 LAT/LON: 47.938892/ -88.775004 Agency: 21MICH Date Created: 06/08/77
Location: LAKE SUPERIOR 36.5M. CONTOUR I.ROYAL FIPS State/County: 26996 MICHIGAN/
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 420036
RMI-Indexes:
RMI-Miles:
HUC: 04020300 Depth of Water: 120 Aquifer:
Major Basin: MAJ BASIN: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: OFF EAST TIP OF LONG ISLAND ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:

LAKE SUPERIOR (AT ISLE ROYALE) AT THE 36.5 METER CONTOUR (120 FEET) THIS STATION IS LOCATED AT THE EAST TIP OF LONG ISLAND, SOUTHWEST OF THE MENAGERIE ISLAND LIGHT. WATER CHEMISTRY SAMPLES WERE TAKEN AT THIS STATION.

Parameter Inventory for Station: ISR00014

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/26/75-06/26/75	2	0.4	0.4	0.5	0.3	0.02	0.141	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/26/75-06/26/75	2	100.	100.	102.	98.	8.	2.828	**	**	**	**
00335 COD, .025N K2CR2O7 MG/L	06/26/75-06/26/75	2	2.4	2.4	3.2	1.6	1.28	1.131	**	**	**	**
00400 PH (STANDARD UNITS)	06/26/75-06/26/75	2	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	06/26/75-06/26/75	2	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/75-06/26/75	2	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	06/26/75-06/26/75	2	40.	40.	40.	40.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/26/75-06/26/75	2	0.006	0.006	0.007	0.004	0.	0.002	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	06/26/75-06/26/75	2##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	06/26/75-06/26/75	2	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/26/75-06/26/75	2	0.085	0.085	0.088	0.082	0.	0.004	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	06/26/75-06/26/75	2	0.008	0.008	0.009	0.007	0.	0.001	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	06/26/75-06/26/75	2	44.5	44.5	45.	44.	0.5	0.707	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	06/26/75-06/26/75	2	1.	1.	1.	1.	0.	0.	**	**	**	**
00946 SULFATE, DISSOLVED (MG/L AS SO4)	06/26/75-06/26/75	2	2.7	2.7	2.8	2.6	0.02	0.141	**	**	**	**
00958 SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	06/26/75-06/26/75	2	1.	1.	1.	1.	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	06/26/75-06/26/75	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
01030 CHROMIUM, DISSOLVED (UG/L AS CR)	06/26/75-06/26/75	1##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
01040 COPPER, DISSOLVED (UG/L AS CU)	06/26/75-06/26/75	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	06/26/75-06/26/75	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	06/26/75-06/26/75	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)	06/26/75-06/26/75	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01049 LEAD, DISSOLVED (UG/L AS PB)	06/26/75-06/26/75	1##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)	06/26/75-06/26/75	1##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	06/26/75-06/26/75	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS MN)	06/26/75-06/26/75	1##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01065 NICKEL, DISSOLVED (UG/L AS NI)	06/26/75-06/26/75	1##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)	06/26/75-06/26/75	1##	0.45	0.45	0.45	0.45	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	06/26/75-06/26/75	1##	1.	1.	1.	1.	0.	0.	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/26/75-06/26/75	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39300 P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39305 O,P' DDT IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39350 CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	06/26/75-06/26/75	1##	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: ISR00014

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39360 DDD IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39365 DDE IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39380 DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
39496 PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	06/26/75-06/26/75	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39504 PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	06/26/75-06/26/75	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39782 LINDANE IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/26/75-06/26/75	2	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	06/26/75-06/26/75	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: ISR00014

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	2	0	0.00							2	0	0.00			
00400 PH	Other-Hi Lim.	9.	2	0	0.00							2	0	0.00			
	Other-Lo Lim.	6.5	2	0	0.00							2	0	0.00			
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	2	0	0.00							2	0	0.00			
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	2	0	0.00							2	0	0.00			
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00							2	0	0.00			
00946 SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	2	0	0.00							2	0	0.00			
01027 CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
	Drinking Water	5.	1	0	0.00							1	0	0.00			
01030 CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040 COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
	Drinking Water	1300.	1	0	0.00							1	0	0.00			
01042 COPPER, TOTAL	Fresh Acute	18.	1	0	0.00							1	0	0.00			
	Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049 LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00							1	0	0.00			
	Drinking Water	5.	1	0	0.00							1	0	0.00			
01051 LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
	Drinking Water	5.	1	0	0.00							1	0	0.00			
01065 NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
	Drinking Water	100.	1	0	0.00							1	0	0.00			
01067 NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
	Drinking Water	100.	1	0	0.00							1	0	0.00			
01092 ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
39300 P,P' DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	1	0	0.00							1	0	0.00			
39350 CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
	Drinking Water	2.	1	0	0.00							1	0	0.00			
39360 DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	1	0	0.00							1	0	0.00			
39365 DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	1	0	0.00							1	0	0.00			
39380 DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	1	0	0.00							1	0	0.00			
39782 LINDANE IN WHOLE WATER SAMPLE	Fresh Acute	2.	1	0	0.00							1	0	0.00			
	Drinking Water	0.2	1	0	0.00							1	0	0.00			
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0.	0.00							1	0	0.00			
	Drinking Water	2.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: ISR00015

NPS Station ID: ISR00015 LAT/LON: 47.959726/ -89.071115 Agency: 112WRD Date Created: 01/09/93
Location: GRASSY TRIB ISLE ROYALE MI FIPS State/County: 26083 MICHIGAN/KEWEENAW
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 475735089041600
RMI-Indexes:
RMI-Miles:
HUC: Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: ISR00015

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403 PH, LAB, STANDARD UNITS	SU	09/20/92-09/20/92	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		09/20/92-09/20/92	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		09/20/92-09/20/92	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**
00602 NITROGEN, DISSOLVED (MG/L AS N)		09/20/92-09/20/92	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00608 NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)		09/20/92-09/20/92	1	0.047	0.047	0.047	0.047	0.	0.	**	**	**	**
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)		09/20/92-09/20/92	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)		09/20/92-09/20/92	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		09/20/92-09/20/92	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)		09/20/92-09/20/92	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)		09/20/92-09/20/92	1	4.7	4.7	4.7	4.7	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)		09/20/92-09/20/92	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)		09/20/92-09/20/92	1	0.24	0.24	0.24	0.24	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER	MG/L	09/20/92-09/20/92	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		09/20/92-09/20/92	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)		09/20/92-09/20/92	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SI02)		09/20/92-09/20/92	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)		09/20/92-09/20/92	1	320.	320.	320.	320.	0.	0.	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS MN)		09/20/92-09/20/92	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

EPA Water Quality Criteria Analysis for Station: ISR00015

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00613 NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00										1	0	0.00
00631 NITRATE 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
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: ISR00016

NPS Station ID: ISR00016 LAT/LON: 47.964170/ -89.060838 Agency: 112WRD Date Created: 01/09/93
Location: SWAMPY TRIB ISLE ROYALE MI FIPS State/County: 26083 MICHIGAN/KEWEENAW
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 475751089033900
RMI-Indexes:
RMI-Miles:
HUC: Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: ISR00016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403 PH, LAB, STANDARD UNITS	SU	09/20/92-09/20/92	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		09/20/92-09/20/92	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		09/20/92-09/20/92	1	0.251	0.251	0.251	0.251	0.	0.	**	**	**	**
00602 NITROGEN, DISSOLVED (MG/L AS N)		09/20/92-09/20/92	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00608 NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)		09/20/92-09/20/92	1	0.083	0.083	0.083	0.083	0.	0.	**	**	**	**
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)		09/20/92-09/20/92	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)		09/20/92-09/20/92	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		09/20/92-09/20/92	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)		09/20/92-09/20/92	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)		09/20/92-09/20/92	1	4.3	4.3	4.3	4.3	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)		09/20/92-09/20/92	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)		09/20/92-09/20/92	1	0.28	0.28	0.28	0.28	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER	MG/L	09/20/92-09/20/92	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		09/20/92-09/20/92	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)		09/20/92-09/20/92	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SI02)		09/20/92-09/20/92	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)		09/20/92-09/20/92	1	1600.	1600.	1600.	1600.	0.	0.	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS MN)		09/20/92-09/20/92	1	140.	140.	140.	140.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: ISR00016

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00613 NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00										1	0	0.00
00631 NITRATE 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
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: ISR00017

NPS Station ID: ISR00017 LAT/LON: 48.003337/ -89.033338 Agency: AIJCCCIW Date Created: 09/30/77
Location: 2 MI NW OF ISLE ROYALE FIPS State/County: 26996 MICHIGAN/
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): C76SU050
RMI-Indexes:
RMI-Miles:
HUC: 04020300 Depth of Water: 1836 Aquifer:
Major Basin: GREAT LAKES Elevation: 0 Water Body Id:
Minor Basin: L. SUPERIOR-CANADIAN 1976 STATION #50 ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:

THIS STATION HAS BEEN ESTABLISHED AS PART OF THE IJC-US-CANADA DATA EXCHANGE PROGRAM. CANADIAN CENTER FOR INLAND WATERS DATA, 867 LAKESHORE ROAD,BURLINGTON, ONTARIO,CANADA,L7R4A6. CCIW CONTACTS:HEATHER COMBA, 416-637-4628 OR ROBERT DUFFIELD, 416-637-4627. STATION STORED BY US EPA, LARGE LAKES RESEARCH PROGRAM, 9311 GROH ROAD, GROSSE ILE, MICH 48138.

Parameter Inventory for Station: ISR00017

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/15/76-06/15/76	4	3.15	3.15	3.2	3.1	0.003	0.058	**	**	**	**
00031 LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	06/15/76-06/15/76	1	73.	73.	73.	73.	0.	0.	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)	06/15/76-06/15/76	3	0.3	0.333	0.4	0.3	0.003	0.058	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/15/76-06/15/76	3	96.	96.333	97.	96.	0.333	0.577	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	06/15/76-06/15/76	3	13.3	13.267	13.3	13.2	0.003	0.058	**	**	**	**
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/15/76-06/15/76	3	101.	100.667	101.	100.	0.333	0.577	**	**	**	**
00400 PH (STANDARD UNITS)	06/15/76-06/15/76	3	7.74	7.743	7.77	7.72	0.001	0.025	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	06/15/76-06/15/76	3	7.74	7.743	7.77	7.72	0.001	0.025	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/15/76-06/15/76	3	0.018	0.018	0.019	0.017	0.	0.001	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	06/15/76-06/15/76	3	41.	41.	41.	41.	0.	0.	**	**	**	**
00608 NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	06/15/76-06/15/76	3	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/15/76-06/15/76	3	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	06/15/76-06/15/76	3	0.006	0.008	0.013	0.005	0.	0.004	**	**	**	**
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	06/15/76-06/15/76	3	0.004	0.004	0.004	0.003	0.	0.001	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATF (MG/L AS P)	06/15/76-06/15/76	3	0.002	0.002	0.002	0.001	0.	0.001	**	**	**	**
00689 CARBON, SUSPENDED ORGANIC (MG/L AS C)	06/15/76-06/15/76	3	0.1	0.09	0.1	0.07	0.	0.017	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)	06/15/76-06/15/76	3	13.	13.033	13.1	13.	0.003	0.058	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	06/15/76-06/15/76	3	2.8	2.767	2.8	2.7	0.003	0.058	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	06/15/76-06/15/76	3	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	06/15/76-06/15/76	3	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	06/15/76-06/15/76	3	1.	1.	1.	1.	0.	0.	**	**	**	**
00946 SULFATE, DISSOLVED (MG/L AS SO4)	06/15/76-06/15/76	3	2.8	2.733	2.8	2.6	0.013	0.115	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SIO2)	06/15/76-06/15/76	3	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
01040 COPPER, DISSOLVED (UG/L AS CU)	06/15/76-06/15/76	3	1.	1.	1.	1.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)	06/15/76-06/15/76	3	1.	1.333	2.	1.	0.333	0.577	**	**	**	**
01049 LEAD, DISSOLVED (UG/L AS PB)	06/15/76-06/15/76	3	1.	1.	1.	1.	0.	0.	**	**	**	**
01065 NICKEL, DISSOLVED (UG/L AS NI)	06/15/76-06/15/76	3	1.	1.	1.	1.	0.	0.	**	**	**	**
01090 ZINC, DISSOLVED (UG/L AS ZN)	06/15/76-06/15/76	3	5.	5.	7.	3.	4.	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: ISR00017

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	3	0	0.00							3	0	0.00			
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	3	0	0.00							3	0	0.00			
00400 PH	Other-Hi Lim.	9.	3	0	0.00							3	0	0.00			
	Other-Lo Lim.	6.5	3	0	0.00							3	0	0.00			
00631 NITRATE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00							3	0	0.00			
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00							3	0	0.00			
00946 SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	3	0	0.00							3	0	0.00			
01040 COPPER, DISSOLVED	Fresh Acute	18.	3	0	0.00							3	0	0.00			
	Drinking Water	1300.	3	0	0.00							3	0	0.00			
01049 LEAD, DISSOLVED	Fresh Acute	82.	3	0	0.00							3	0	0.00			
	Drinking Water	5.	3	0	0.00							3	0	0.00			
01065 NICKEL, DISSOLVED	Fresh Acute	1400.	3	0	0.00							3	0	0.00			
	Drinking Water	100.	3	0	0.00							3	0	0.00			
01090 ZINC, DISSOLVED	Fresh Acute	120.	3	0	0.00							3	0	0.00			

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

Station Inventory for Station: ISR00018

NPS Station ID: ISR00018 LAT/LON: 48.003337/ -89.033338 Agency: AIJCCCIW Date Created: 02/09/78
Location: 1 MI NORTH OF ISLE ROYALE,MICH. FIPS State/County: 26996 MICHIGAN/
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): C73SU144
RMI-Indexes:
RMI-Miles:
HUC: 04020300 Depth of Water: 3181 Aquifer:
Major Basin: GREAT LAKES Elevation: 0 Water Body Id:
Minor Basin: L. SUPERIOR CANADIAN 1973 STATION #144 ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:

THIS STATION HAS BEEN ESTABLISHED AS PART OF THE IJC-US-CANADA DATA EXCHANGE PROGRAM. CANADIAN CENTER FOR INLAND WATERS DATA, 867 LAKESHORE ROAD,BURLINGTON, ONTARIO,CANADA,L7R4A6. CCIW CONTACTS:HEATHER COMBA, 416-637-4628 OR ROBERT DUFFIELD, 416-637-4627. STATION STORED BY US EPA, LARGE LAKES RESEARCH PROGRAM, 9311 GROH ROAD, GROSSE ILE, MICH 48138.

Parameter Inventory for Station: ISR00018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/19/73-11/25/73	33	4.9	6.385	14.6	1.9	17.771	4.216	1.9	3.2	9.75	13.18
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	05/19/73-11/25/73	20	65.5	63.2	72.	50.	52.695	7.259	53.2	56.25	71.	72.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/19/73-11/25/73	26	0.2	0.254	0.4	0.2	0.006	0.076	0.2	0.2	0.3	0.4
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/19/73-11/25/73	4	11.5	11.	13.	8.	4.667	2.16	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	05/19/73-11/25/73	4	6.	6.25	7.	6.	0.25	0.5	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/19/73-11/25/73	27	13.	12.733	13.7	10.9	0.79	0.889	11.3	11.8	13.6	13.7
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/19/73-11/25/73	27	103.	103.926	113.	99.	17.379	4.169	100.	101.	105.	112.2
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/19/73-11/25/73	22	42.	42.455	46.	40.	2.069	1.438	41.	42.	42.5	45.
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/19/73-11/25/73	27	0.006	0.006	0.014	0.002	0.	0.003	0.002	0.003	0.007	0.011
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/19/73-11/25/73	27	0.3	0.293	0.3	0.2	0.001	0.027	0.28	0.3	0.3	0.3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/19/73-11/25/73	18	0.006	0.006	0.009	0.004	0.	0.001	0.004	0.005	0.007	0.008
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/19/73-11/25/73	16	0.005	0.005	0.008	0.003	0.	0.002	0.003	0.004	0.006	0.007
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/19/73-11/25/73	27	0.001	0.002	0.008	0.	0.	0.002	0.001	0.001	0.002	0.004
00940	CHLORIDE,TOTAL IN WATER MG/L	05/19/73-10/22/73	14	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/19/73-11/25/73	27	2.5	2.474	2.7	2.3	0.007	0.086	2.38	2.4	2.5	2.6
31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	06/22/73-10/22/73	6	7.5	7.5	13.	2.	17.9	4.231	**	**	**	**
31503	LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	06/22/73-10/22/73	6	0.866	0.798	1.114	0.301	0.094	0.306	**	**	**	**
31503	GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35		GEOMETRIC MEAN =		6.287								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/22/73-06/22/73	1	6.	6.	6.	6.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/22/73-06/22/73	1	0.778	0.778	0.778	0.778	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		6.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/13/73-09/13/73	1	1.	1.	1.	1.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/13/73-09/13/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR		GEOMETRIC MEAN =		1.								
31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	06/22/73-11/25/73	9	86.	85.556	180.	31.	1974.778	44.438	31.	46.5	103.	180.
31749	LOG PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	06/22/73-11/25/73	9	1.934	1.879	2.255	1.491	0.054	0.232	1.491	1.667	2.011	2.255
31749	GM PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS		GEOMETRIC MEAN =		75.759								

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

EPA Water Quality Criteria Analysis for Station: ISR00018

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	26	0	0.00							14	0	0.00	12	0	0.00
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	27	0	0.00							15	0	0.00	12	0	0.00
00631 NITRATE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	27	0	0.00							15	0	0.00	12	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	14	0	0.00							5	0	0.00	9	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 edit criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: ISR00019

NPS Station ID: ISR00019 LAT/LON: 48.034726/ -88.630559 Agency: 12ELS1 Date Created: 04/16/88
Location: LAKE THERESA FIPS State/County: 26083 MICHIGAN/KEWEENAW
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 2B3-001
RMI-Indexes:
RMI-Miles:
HUC: 04020300 Depth of Water: 3 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: ISR00019

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/20/84-10/20/84	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00078 TRANSPARENCY, SECCHI DISC (METERS)	10/20/84-10/20/84	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	10/20/84-10/20/84	1	63.	63.	63.	63.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/20/84-10/20/84	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00154 SULFATE (AS S) WHOLE WATER, MG/L	10/20/84-10/20/84	1	2.37	2.37	2.37	2.37	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	10/20/84-10/20/84	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	10/20/84-10/20/84	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/20/84-10/20/84	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00409 ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	10/20/84-10/20/84	1	224.4	224.4	224.4	224.4	0.	0.	**	**	**	**
00662 PHOSPHORUS (P), WATER, TOTAL RECOVERABLE UG/L	10/20/84-10/20/84	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00681 CARBON, DISSOLVED ORGANIC (MG/L AS C)	10/20/84-10/20/84	1	18.1	18.1	18.1	18.1	0.	0.	**	**	**	**
00691 CARBON, DISSOLVED INORGANIC (MG/L AS C)	10/20/84-10/20/84	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00910 CALCIUM (MG/L AS CACO3)	10/20/84-10/20/84	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	10/20/84-10/20/84	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	10/20/84-10/20/84	1	0.47	0.47	0.47	0.47	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	10/20/84-10/20/84	1	0.13	0.13	0.13	0.13	0.	0.	**	**	**	**
00941 CHLORIDE, DISSOLVED IN WATER MG/L	10/20/84-10/20/84	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	10/20/84-10/20/84	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SI02)	10/20/84-10/20/84	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS MN)	10/20/84-10/20/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01105 ALUMINUM, TOTAL (UG/L AS AL)	10/20/84-10/20/84	1	113.	113.	113.	113.	0.	0.	**	**	**	**
70151 SURFACE AREA OF LAKE OR RESERVOIR SQ KM	10/20/84-10/20/84	1	0.066	0.066	0.066	0.066	0.	0.	**	**	**	**
71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/20/84-10/20/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
71885 IRON (UG/L AS FE)	10/20/84-10/20/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
72020 ELEVATION IN FEET ABOVE MEAN SEA LEVEL	10/20/84-10/20/84	1	620.11	620.11	620.11	620.11	0.	0.	**	**	**	**
82047 DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	10/20/84-10/20/84	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/20/84-10/20/84	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: ISR00019

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
00154 SULFATE (AS S) WHOLE WATER	Drinking Water	400.	1	0	0.00										1	0	0.00

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

EPA Water Quality Criteria Analysis for Station: ISRO0019

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00409 ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	1	0	0.00										1	0	0.00
00941 CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00										1	0	0.00
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00										1	0	0.00
82079 TURBIDITY, LAB	Other-Hi Lim.	50.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: ISR00020

NPS Station ID: ISR00020 LAT/LON: 48.048338/ -88.878337 Agency: AIJCCCIW Date Created: 02/09/78
Location: 3 MI SOUTH OF ISLE ROYALE,MICH. FIPS State/County: 26996 MICHIGAN/
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): C68SU057
RMI-Indexes:
RMI-Miles:
HUC: 04020300 Depth of Water: 2296 Aquifer:
Major Basin: GREAT LAKES Elevation: 0 Water Body Id:
Minor Basin: ALSO SAMPLED IN 1969&1970 STATION #57 ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:

THIS STATION HAS BEEN ESTABLISHED AS PART OF THE IJC-US-CANADA DATA EXCHANGE PROGRAM. CANADIAN CENTER FOR INLAND WATERS DATA, 867 LAKESHORE ROAD,BURLINGTON, ONTARIO,CANADA,L7R4A6. CCIW CONTACTS:HEATHER COMBA, 416-637-4628 OR ROBERT DUFFIELD, 416-637-4627. STATION STORED BY US EPA, LARGE LAKES RESEARCH PROGRAM, 9311 GROH ROAD, GROSSE ILE, MICH 48138.

Parameter Inventory for Station: ISR00020

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/24/68-11/03/70	29	5.	5.866	13.	1.1	11.652	3.414	1.1	3.9	7.4	13.
00070 TURBIDITY, (JACKSON CANDLE UNITS)	08/24/68-11/03/70	20	0.25	0.24	0.5	0.1	0.02	0.143	0.1	0.1	0.4	0.4
00078 TRANSPARENCY, SECCHI DISC (METERS)	08/24/68-11/03/70	3	8.	10.333	16.	7.	24.333	4.933	**	**	**	**
00079 COLOR, WATER (FOREL-ULE SCALE)	08/24/68-11/03/70	3	5.	6.	9.	4.	7.	2.646	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/24/68-11/03/70	25	98.	99.56	114.	93.	38.673	6.219	94.6	95.	99.	112.
00300 OXYGEN, DISSOLVED MG/L	08/24/68-11/03/70	25	12.6	12.464	13.7	10.6	0.611	0.781	11.3	12.	13.	13.54
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/24/68-08/24/68	3	0.3	0.267	0.3	0.2	0.003	0.058	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/24/68-08/24/68	3	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SI02)	08/24/68-08/24/68	3	2.1	2.167	2.3	2.1	0.013	0.115	**	**	**	**
32210 CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	08/24/68-11/03/70	4	1.	1.175	2.4	0.3	0.802	0.896	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: ISR00020

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	20	0	0.00										20	0	0.00
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	25	0	0.00				5	0	0.00				20	0	0.00
00631 NITRATE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00										3	0	0.00

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

Station Inventory for Station: ISR00021

NPS Station ID: ISR00021 LAT/LON: 48.055559/ -88.831392 Agency: 21MICH Date Created: 06/08/77
Location: LAKE SUPERIOR 36.5M. CONTOUR I. ROYALE FIPS State/County: 26996 MICHIGAN/
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 420039
RMI-Indexes:
RMI-Miles:
HUC: 04020300 Depth of Water: 120 Aquifer:
Major Basin: MAJ BASIN: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: OFF WILSON PT. ISLE ROYALE ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:

LAKE SUPERIOR (AT ISLE ROYALE) AT THE 36.5 METER CONTOUR (120 FEET) AND THE MOST WESTERLY OF THE GROUP OF 4 ISLANDS AT THE WESTERN END OF THIS STATION IS LOCATED BETWEEN THE ISLAND AT THE TIP OF WILSON POINT TODD HARBOR. WATER QUALITY SAMPLES WERE TAKEN AT THIS STATION.

Parameter Inventory for Station: ISR00021

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/26/75-06/26/75	2	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/26/75-06/26/75	2	98.5	98.5	99.	98.	0.5	0.707	**	**	**	**
00335 COD, .025N K2CR2O7 MG/L	06/26/75-06/26/75	2	1.75	1.75	3.2	0.3	4.205	2.051	**	**	**	**
00400 PH (STANDARD UNITS)	06/26/75-06/26/75	2	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	06/26/75-06/26/75	2	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/75-06/26/75	2	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	06/26/75-06/26/75	2	41.	41.	41.	41.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/26/75-06/26/75	2##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	06/26/75-06/26/75	2##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	06/26/75-06/26/75	2	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/26/75-06/26/75	2	0.091	0.091	0.101	0.081	0.	0.014	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	06/26/75-06/26/75	2##	0.005	0.005	0.009	0.001	0.	0.006	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	06/26/75-06/26/75	2	44.	44.	44.	44.	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	06/26/75-06/26/75	2	1.	1.	1.	1.	0.	0.	**	**	**	**
00946 SULFATE, DISSOLVED (MG/L AS SO4)	06/26/75-06/26/75	2	3.15	3.15	3.3	3.	0.045	0.212	**	**	**	**
00958 SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	06/26/75-06/26/75	2	1.	1.	1.	1.	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	06/26/75-06/26/75	1##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
01030 CHROMIUM, DISSOLVED (UG/L AS CR)	06/26/75-06/26/75	1##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	06/26/75-06/26/75	1##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
01040 COPPER, DISSOLVED (UG/L AS CU)	06/26/75-06/26/75	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	06/26/75-06/26/75	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	06/26/75-06/26/75	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)	06/26/75-06/26/75	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01049 LEAD, DISSOLVED (UG/L AS PB)	06/26/75-06/26/75	1##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)	06/26/75-06/26/75	1##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	06/26/75-06/26/75	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01065 NICKEL, DISSOLVED (UG/L AS NI)	06/26/75-06/26/75	1##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)	06/26/75-06/26/75	1##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	06/26/75-06/26/75	1##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/26/75-06/26/75	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
39300 P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39305 O,P' DDT IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39350 CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	06/26/75-06/26/75	1##	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: ISR00021

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39360 DDD IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39365 DDE IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39380 DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
39496 PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	06/26/75-06/26/75	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39504 PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	06/26/75-06/26/75	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39782 LINDANE IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/26/75-06/26/75	2##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	06/26/75-06/26/75	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: ISR00021

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	2	0	0.00							2	0	0.00			
00400 PH	Other-Hi Lim.	9.	2	0	0.00							2	0	0.00			
	Other-Lo Lim.	6.5	2	0	0.00							2	0	0.00			
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	2	0	0.00							2	0	0.00			
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	2	0	0.00							2	0	0.00			
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00							2	0	0.00			
00946 SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	2	0	0.00							2	0	0.00			
01027 CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
	Drinking Water	5.	1	0	0.00							1	0	0.00			
01030 CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01034 CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040 COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
	Drinking Water	1300.	1	0	0.00							1	0	0.00			
01042 COPPER, TOTAL	Fresh Acute	18.	1	0	0.00							1	0	0.00			
	Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049 LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00							1	0	0.00			
	Drinking Water	5.	1	0	0.00							1	0	0.00			
01051 LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
	Drinking Water	5.	1	0	0.00							1	0	0.00			
01065 NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
	Drinking Water	100.	1	0	0.00							1	0	0.00			
01067 NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
	Drinking Water	100.	1	0	0.00							1	0	0.00			
01092 ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
39300 P,P' DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	1	0	0.00							1	0	0.00			
39350 CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
	Drinking Water	2.	1	0	0.00							1	0	0.00			
39360 DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	1	0	0.00							1	0	0.00			
39365 DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	1	0	0.00							1	0	0.00			
39380 DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	1	0	0.00							1	0	0.00			
39782 LINDANE IN WHOLE WATER SAMPLE	Fresh Acute	2.	1	0	0.00							1	0	0.00			
	Drinking Water	0.2	1	0	0.00							1	0	0.00			
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
	Drinking Water	2.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: ISR00022

NPS Station ID: ISR00022 LAT/LON: 48.137503/ -88.481393 Agency: 21MICH Date Created: 06/08/77
Location: LAKE SUPERIOR 38M. CONTOUR ISLE ROYALE FIPS State/County: 26996 MICHIGAN/
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 420035
RMI-Indexes:
RMI-Miles:
HUC: 04020300 Depth of Water: 125 Aquifer:
Major Basin: MAJ BASIN: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: OFF SOUTH SHORE ROCK HARBOR ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:

LAKE SUPERIOR (AT ISLE ROYALE) AT THE 38 METER CONTOUR (125 FEET). THIS STATION IS LOCATED SOUTH OF THE ISLANDS WHICH FORM THE SOUTHERN BORDER OF ROCK HARBOR, BETWEEN SMITHWICK AND RASPBERRY ISLANDS. WATER CHEMISTRY SAMPLES WERE TAKEN AT THIS STATION.

Parameter Inventory for Station: ISR00022

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/26/75-06/26/75	2	0.55	0.55	0.7	0.4	0.045	0.212	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/26/75-06/26/75	2	97.	97.	99.	95.	8.	2.828	**	**	**	**
00335 COD, .025N K2CR207 MG/L	06/26/75-06/26/75	2	3.4	3.4	4.9	1.9	4.5	2.121	**	**	**	**
00400 PH (STANDARD UNITS)	06/26/75-06/26/75	2	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	06/26/75-06/26/75	2	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/75-06/26/75	2	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	06/26/75-06/26/75	2	41.	41.	41.	41.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/26/75-06/26/75	2##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	06/26/75-06/26/75	2##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	06/26/75-06/26/75	2	0.29	0.29	0.29	0.29	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/26/75-06/26/75	2	0.092	0.092	0.096	0.087	0.	0.006	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	06/26/75-06/26/75	2	0.002	0.002	0.002	0.001	0.	0.001	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	06/26/75-06/26/75	2	44.	44.	44.	44.	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	06/26/75-06/26/75	2	1.	1.	1.	1.	0.	0.	**	**	**	**
00946 SULFATE, DISSOLVED (MG/L AS SO4)	06/26/75-06/26/75	2	3.3	3.3	3.4	3.2	0.02	0.141	**	**	**	**
00958 SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	06/26/75-06/26/75	2	1.	1.	1.	1.	0.	0.	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/26/75-06/26/75	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
39300 P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39305 O,P' DDT IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39350 CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39360 DDD IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39365 DDE IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39380 DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
39496 PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	06/26/75-06/26/75	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39504 PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	06/26/75-06/26/75	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39782 LINDANE IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/26/75-06/26/75	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

EPA Water Quality Criteria Analysis for Station: ISR00022

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	2	0	0.00							2	0	0.00			
00400 PH	Other-Hi Lim.	9.	2	0	0.00							2	0	0.00			
	Other-Lo Lim.	6.5	2	0	0.00							2	0	0.00			
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	2	0	0.00							2	0	0.00			
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	2	0	0.00							2	0	0.00			
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00							2	0	0.00			
00946 SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	2	0	0.00							2	0	0.00			
39300 P,P' DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	1	0	0.00							1	0	0.00			
39350 CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
	Drinking Water	2.	1	0	0.00							1	0	0.00			
39360 DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	1	0	0.00							1	0	0.00			
39365 DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	1	0	0.00							1	0	0.00			
39380 DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	1	0	0.00							1	0	0.00			
39782 LINDANE IN WHOLE WATER SAMPLE	Fresh Acute	2.	1	0	0.00							1	0	0.00			
	Drinking Water	0.2	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: ISR00023

NPS Station ID: ISR00023 LAT/LON: 48.157503/ -88.600281 Agency: 21MICH Date Created: / /
Location: L. SUPERIOR@ISLE ROYALE .05KM NE AMYGLD. IS. FIPS State/County: 26996 MICHIGAN/
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 420019
RMI-Indexes:
RMI-Miles:
HUC: 04020300 Depth of Water: 98 Aquifer:
Major Basin: MAJ BASIN: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: - ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
LAKE SUPERIOR, ISLE ROYALE; 074 DEGREES TRUE TO BLAKE PT. LT., 064 DEGREES TRUE TO THE SW MOST END OF STEAMBOAT IS. TOTAL DEPTH 29.7 METERS (98 FT.). WATER QUALITY AND BIOTA SAMPLES ARE COLLECTED AT THIS STATION.

Parameter Inventory for Station: ISR00023

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/26/74-08/26/74	4	0.65	0.725	1.1	0.5	0.069	0.263	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/26/74-08/26/74	4	98.	97.75	102.	93.	24.25	4.924	**	**	**	**
00335 COD, .025N K2CR2O7 MG/L	06/26/74-08/26/74	4	5.8	5.675	6.6	4.5	1.183	1.087	**	**	**	**
00339 COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	08/26/74-08/26/74	1	5000.	5000.	5000.	5000.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	06/26/74-08/26/74	4	7.4	7.45	7.7	7.3	0.03	0.173	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	06/26/74-08/26/74	4	7.4	7.427	7.7	7.3	0.031	0.175	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/74-08/26/74	4	0.04	0.037	0.05	0.02	0.	0.013	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	06/26/74-08/26/74	4	43.	42.75	44.	41.	2.25	1.5	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/26/74-08/26/74	4##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00535 RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/26/74-08/26/74	4##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00553 OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,MG/KG	08/26/74-08/26/74	1	95.	95.	95.	95.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/26/74-08/26/74	6	0.008	0.008	0.011	0.004	0.	0.003	**	**	**	**
00611 NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	08/26/74-08/26/74	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	06/26/74-08/26/74	6	0.001	0.001	0.002	0.001	0.	0.	**	**	**	**
00616 NITRITE NITROGEN, BOTTOM DEPOS, (MG/KG-N DRY WGT)	08/26/74-08/26/74	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	06/26/74-08/26/74	6	0.265	0.265	0.29	0.25	0.	0.015	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/26/74-08/26/74	6	0.11	0.141	0.28	0.077	0.006	0.075	**	**	**	**
00627 NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	08/26/74-08/26/74	1	95.	95.	95.	95.	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	06/26/74-08/26/74	6	0.005	0.005	0.008	0.001	0.	0.003	**	**	**	**
00668 PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/26/74-08/26/74	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	06/26/74-08/26/74	4	45.5	45.5	46.	45.	0.333	0.577	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)	06/26/74-08/26/74	4	13.6	13.55	14.	13.	0.17	0.412	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	06/26/74-08/26/74	4	3.1	3.15	3.3	3.1	0.01	0.1	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS NA)	06/26/74-08/26/74	4	1.65	1.675	2.1	1.3	0.149	0.386	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	06/26/74-08/26/74	4	0.455	0.455	0.51	0.4	0.004	0.064	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	06/26/74-08/26/74	4	1.	1.	1.	1.	0.	0.	**	**	**	**
00946 SULFATE, DISSOLVED (MG/L AS SO4)	06/26/74-08/26/74	4	3.2	3.3	3.8	3.	0.12	0.346	**	**	**	**
00958 SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	06/26/74-08/26/74	4	1.15	1.125	1.2	1.	0.009	0.096	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	06/26/74-08/26/74	4##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/26/74-08/26/74	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	06/26/74-08/26/74	4##	1.	1.	1.	1.	0.	0.	**	**	**	**
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/26/74-08/26/74	1##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/26/74-08/26/74	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: ISR00023

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01034 CHROMIUM, TOTAL (UG/L AS CR)	06/26/74-08/26/74	4##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	06/26/74-08/26/74	4	3.	2.625	4.	0.5	2.896	1.702	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/26/74-08/26/74	1	22.	22.	22.	22.	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	06/26/74-08/26/74	4	18.	19.25	28.	13.	50.25	7.089	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)	06/26/74-08/26/74	4##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/26/74-08/26/74	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/26/74-08/26/74	1	680.	680.	680.	680.	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	06/26/74-08/26/74	4	1.	1.25	2.	1.	0.25	0.5	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)	06/26/74-08/26/74	4##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/26/74-08/26/74	1	92.	92.	92.	92.	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	06/26/74-08/26/74	4	5.	5.	8.	2.	12.	3.464	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/26/74-08/26/74	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01147 SELENIUM, TOTAL (UG/L AS SE)	06/26/74-08/26/74	4##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01148 SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/26/74-08/26/74	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/26/74-08/26/74	1	16000.	16000.	16000.	16000.	0.	0.	**	**	**	**
03501 BETA, TOTAL	06/26/74-08/26/74	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
03502 BETA, TOTAL, COUNTING ERROR	06/26/74-08/26/74	2	1.	1.	1.	1.	0.	0.	**	**	**	**
27701 ZIRCONIUM 95, TOTAL	06/26/74-08/26/74	2##	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
27801 NIOBIUM 95, TOTAL	06/26/74-08/26/74	2##	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
28401 CESIUM 137, TOTAL	06/26/74-08/26/74	2##	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
29301 ZINC 65, TOTAL	06/26/74-08/26/74	2##	15.	15.	15.	15.	0.	0.	**	**	**	**
29501 MANGANESE 54, TOTAL	06/26/74-08/26/74	2##	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
29601 COBALT 60, TOTAL	06/26/74-08/26/74	2##	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
31504 COLIFORM,TOT.MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/26/74-08/26/74	4##	75.	100.	200.	50.	5000.	70.711	**	**	**	**
31504 LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,	06/26/74-08/26/74	4##	1.849	1.925	2.301	1.699	0.083	0.288	**	**	**	**
31504 GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3		GEOMETRIC MEAN =		84.09								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/26/74-08/26/74	4##	5.	5.	5.	5.	0.	0.	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/26/74-08/26/74	4##	0.699	0.699	0.699	0.699	0.	0.	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		5.								
31679 FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	06/26/74-08/26/74	4##	5.	5.	5.	5.	0.	0.	**	**	**	**
31679 LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	06/26/74-08/26/74	4##	0.699	0.699	0.699	0.699	0.	0.	**	**	**	**
31679 GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4		GEOMETRIC MEAN =		5.								
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/26/74-08/26/74	4	1.45	1.7	3.1	0.8	1.247	1.117	**	**	**	**
39102 BIS(2-ETHYLHEXYL) PHTHALATE,SEDIMENT,DRY WGT,UG/KG	08/26/74-08/26/74	1##	45.	45.	45.	45.	0.	0.	**	**	**	**
39112 DI-N-BUTYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	08/26/74-08/26/74	1##	30.	30.	30.	30.	0.	0.	**	**	**	**
39301 P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/26/74-08/26/74	1##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39306 O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/26/74-08/26/74	1##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39363 DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/26/74-08/26/74	1##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39368 DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/26/74-08/26/74	1##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39383 DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/26/74-08/26/74	1##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39499 PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/26/74-08/26/74	1##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39507 PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/26/74-08/26/74	1##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39511 PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/26/74-08/26/74	1##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/26/74-08/26/74	4	54.5	54.25	55.	53.	0.917	0.957	**	**	**	**
70310 PH, STANDARD UNITS, BOTTOM MUDS	08/26/74-08/26/74	1	7.	7.	7.	7.	0.	0.	**	**	**	**
70310 CONVERTED PH, STANDARD UNITS, BOTTOM MUDS	08/26/74-08/26/74	1	7.	7.	7.	7.	0.	0.	**	**	**	**
70310 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/74-08/26/74	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
70318 SOLIDS, TOTAL, PERCENT OF WET SAMPLE	08/26/74-08/26/74	1	76.	76.	76.	76.	0.	0.	**	**	**	**
70322 SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	08/26/74-08/26/74	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/26/74-08/26/74	6##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	06/26/74-08/26/74	4##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71921 MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/26/74-08/26/74	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: ISR00023

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other - Hi Lim.	50.	4	0	0.00							2	0	0.00	2	0	0.00

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

EPA Water Quality Criteria Analysis for Station: ISR00023

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
00400 PH	Other-Hi Lim.	9.	4	0	0.00							2	0	0.00	2	0	0.00
	Other-Lo Lim.	6.5	4	0	0.00							2	0	0.00	2	0	0.00
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	6	0	0.00							3	0	0.00	3	0	0.00
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	6	0	0.00							3	0	0.00	3	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	4	0	0.00							2	0	0.00	2	0	0.00
00946 SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	4	0	0.00							2	0	0.00	2	0	0.00
01002 ARSENIC, TOTAL	Fresh Acute	360.	4	0	0.00							2	0	0.00	2	0	0.00
	Drinking Water	50.	4	0	0.00							2	0	0.00	2	0	0.00
01027 CADMIUM, TOTAL	Fresh Acute	3.9	4	0	0.00							2	0	0.00	2	0	0.00
	Drinking Water	5.	4	0	0.00							2	0	0.00	2	0	0.00
01034 CHROMIUM, TOTAL	Drinking Water	100.	4	0	0.00							2	0	0.00	2	0	0.00
01042 COPPER, TOTAL	Fresh Acute	18.	4	0	0.00							2	0	0.00	2	0	0.00
	Drinking Water	1300.	4	0	0.00							2	0	0.00	2	0	0.00
01051 LEAD, TOTAL	Fresh Acute	82.	4	0	0.00							2	0	0.00	2	0	0.00
	Drinking Water	5.	4	0	0.00							2	0	0.00	2	0	0.00
01067 NICKEL, TOTAL	Fresh Acute	1400.	4	0	0.00							2	0	0.00	2	0	0.00
	Drinking Water	100.	4	0	0.00							2	0	0.00	2	0	0.00
01092 ZINC, TOTAL	Fresh Acute	120.	4	0	0.00							2	0	0.00	2	0	0.00
01147 SELENIUM, TOTAL	Fresh Acute	20.	4	0	0.00							2	0	0.00	2	0	0.00
	Drinking Water	50.	4	0	0.00							2	0	0.00	2	0	0.00
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	4	0	0.00							2	0	0.00	2	0	0.00
71900 MERCURY, TOTAL	Fresh Acute	2.4	4	0	0.00							2	0	0.00	2	0	0.00
	Drinking Water	2.	4	0	0.00							2	0	0.00	2	0	0.00

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

Station Inventory for Station: ISR00024

NPS Station ID: ISR00024 LAT/LON: 48.159726/ -88.605560 Agency: 21MICH Date Created: / /
Location: L. SUPERIOR@ISLE ROYALE .4KM N AMYGD. IS. FIPS State/County: 26996 MICHIGAN/
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 420022
RMI-Indexes:
RMI-Miles:
HUC: 04020300 Depth of Water: 151 Aquifer:
Major Basin: MAJ BASIN: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: - ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
LAKE SUPERIOR, ISLE ROYALE; 076 DEGREES TRUE TO BLAKE PT. LT., 069 DEGREES TRUE TO THE SW MOST END OF STEAMBOAT IS. TOTAL DEPTH 46 METERS (151 FT.). WATER QUALITY AND BIOTA SAMPLES ARE DETERMINED AT THIS STATION.

Parameter Inventory for Station: ISR00024

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/26/74-08/26/74	4	0.65	0.7	1.	0.5	0.06	0.245	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/26/74-08/26/74	4	97.	97.	101.	93.	16.667	4.082	**	**	**	**
00335 COD, .025N K2CR2O7 MG/L	06/26/74-08/26/74	4	7.5	8.375	14.	4.5	20.229	4.498	**	**	**	**
00339 COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	08/26/74-08/26/74	1	6000.	6000.	6000.	6000.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	06/26/74-08/26/74	4	7.55	7.6	7.8	7.5	0.02	0.141	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	06/26/74-08/26/74	4	7.547	7.584	7.8	7.5	0.02	0.143	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/74-08/26/74	4	0.028	0.026	0.032	0.016	0.	0.007	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	06/26/74-08/26/74	4	43.	43.5	45.	43.	1.	1.	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/26/74-08/26/74	4##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00535 RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/26/74-08/26/74	4##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/26/74-08/26/74	6	0.006	0.006	0.011	0.002	0.	0.004	**	**	**	**
00611 NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	08/26/74-08/26/74	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	06/26/74-08/26/74	6	0.002	0.002	0.004	0.001	0.	0.001	**	**	**	**
00616 NITRITE NITROGEN, BOTTOM DEPOS. (MG/KG-N DRY WGT)	08/26/74-08/26/74	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	06/26/74-08/26/74	6	0.26	0.283	0.4	0.26	0.003	0.057	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/26/74-08/26/74	6	0.125	0.119	0.15	0.081	0.001	0.027	**	**	**	**
00627 NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	08/26/74-08/26/74	1	120.	120.	120.	120.	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	06/26/74-08/26/74	6	0.004	0.005	0.01	0.001	0.	0.004	**	**	**	**
00668 PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/26/74-08/26/74	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	06/26/74-08/26/74	4	45.	45.25	46.	45.	0.25	0.5	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)	06/26/74-08/26/74	4	13.2	13.35	14.	13.	0.197	0.443	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	06/26/74-08/26/74	4	3.2	3.2	3.3	3.1	0.007	0.082	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS NA)	06/26/74-08/26/74	4	1.75	1.975	3.	1.4	0.576	0.759	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	06/26/74-08/26/74	4	0.49	0.473	0.51	0.4	0.003	0.052	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	06/26/74-08/26/74	4	1.	1.	1.	1.	0.	0.	**	**	**	**
00946 SULFATE, DISSOLVED (MG/L AS SO4)	06/26/74-08/26/74	4	3.3	3.325	3.6	3.1	0.049	0.222	**	**	**	**
00958 SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	06/26/74-08/26/74	4	1.15	1.125	1.2	1.	0.009	0.096	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	06/26/74-08/26/74	4##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/26/74-08/26/74	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	06/26/74-08/26/74	4##	1.	1.	1.	1.	0.	0.	**	**	**	**
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/26/74-08/26/74	1##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/26/74-08/26/74	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	06/26/74-08/26/74	4##	0.5	0.625	1.	0.5	0.063	0.25	**	**	**	**

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

Parameter Inventory for Station: ISR00024

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01042 COPPER, TOTAL (UG/L AS CU)	06/26/74-08/26/74	4	3.5	5.	12.	1.	23.333	4.83	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/26/74-08/26/74	1	22.	22.	22.	22.	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	06/26/74-08/26/74	4##	5.25	6.	11.	2.5	17.833	4.223	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)	06/26/74-08/26/74	4##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/26/74-08/26/74	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/26/74-08/26/74	1	640.	640.	640.	640.	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	06/26/74-08/26/74	4	1.	1.	1.	1.	0.	0.	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)	06/26/74-08/26/74	4##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/26/74-08/26/74	1	78.	78.	78.	78.	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	06/26/74-08/26/74	4	2.5	2.75	4.	2.	0.917	0.957	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/26/74-08/26/74	1	84.	84.	84.	84.	0.	0.	**	**	**	**
01147 SELENIUM, TOTAL (UG/L AS SE)	06/26/74-08/26/74	4##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01148 SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/26/74-08/26/74	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/26/74-08/26/74	1	15000.	15000.	15000.	15000.	0.	0.	**	**	**	**
31504 COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/26/74-08/26/74	4##	50.	50.	50.	50.	0.	0.	**	**	**	**
31504 LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,	06/26/74-08/26/74	4##	1.699	1.699	1.699	1.699	0.	0.	**	**	**	**
31504 GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3		GEOMETRIC MEAN =		50.								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/26/74-08/26/74	4##	5.	5.	5.	5.	0.	0.	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/26/74-08/26/74	4##	0.699	0.699	0.699	0.699	0.	0.	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		5.								
31679 FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	06/26/74-08/26/74	4##	5.	5.	5.	5.	0.	0.	**	**	**	**
31679 LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	06/26/74-08/26/74	4##	0.699	0.699	0.699	0.699	0.	0.	**	**	**	**
31679 GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4		GEOMETRIC MEAN =		5.								
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/26/74-08/26/74	4	1.3	1.35	2.	0.8	0.41	0.64	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/26/74-08/26/74	4	54.5	55.	57.	54.	2.	1.414	**	**	**	**
70310 PH, STANDARD UNITS, BOTTOM MUDS	08/26/74-08/26/74	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
70310 CONVERTED PH, STANDARD UNITS, BOTTOM MUDS	08/26/74-08/26/74	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
70310 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/74-08/26/74	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
70318 SOLIDS, TOTAL, PERCENT OF WET SAMPLE	08/26/74-08/26/74	1	73.	73.	73.	73.	0.	0.	**	**	**	**
70322 SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	08/26/74-08/26/74	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/26/74-08/26/74	6##	0.001	0.001	0.002	0.001	0.	0.001	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	06/26/74-08/26/74	4##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71921 MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/26/74-08/26/74	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: ISR00024

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	4	0	0.00							2	0	0.00	2	0	0.00
00400 PH	Other-Hi Lim.	9.	4	0	0.00							2	0	0.00	2	0	0.00
	Other-Lo Lim.	6.5	4	0	0.00							2	0	0.00	2	0	0.00
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	6	0	0.00							3	0	0.00	3	0	0.00
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	6	0	0.00							3	0	0.00	3	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	4	0	0.00							2	0	0.00	2	0	0.00
00946 SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	4	0	0.00							2	0	0.00	2	0	0.00
01002 ARSENIC, TOTAL	Fresh Acute	360.	4	0	0.00							2	0	0.00	2	0	0.00
	Drinking Water	50.	4	0	0.00							2	0	0.00	2	0	0.00
01027 CADMIUM, TOTAL	Fresh Acute	3.9	4	0	0.00							2	0	0.00	2	0	0.00
	Drinking Water	5.	4	0	0.00							2	0	0.00	2	0	0.00
01034 CHROMIUM, TOTAL	Drinking Water	100.	4	0	0.00							2	0	0.00	2	0	0.00
01042 COPPER, TOTAL	Fresh Acute	18.	4	0	0.00							2	0	0.00	2	0	0.00
	Drinking Water	1300.	4	0	0.00							2	0	0.00	2	0	0.00
01051 LEAD, TOTAL	Fresh Acute	82.	4	0	0.00							2	0	0.00	2	0	0.00
	Drinking Water	5.	4	0	0.00							2	0	0.00	2	0	0.00
01067 NICKEL, TOTAL	Fresh Acute	1400.	4	0	0.00							2	0	0.00	2	0	0.00
	Drinking Water	100.	4	0	0.00							2	0	0.00	2	0	0.00
01092 ZINC, TOTAL	Fresh Acute	120.	4	0	0.00							2	0	0.00	2	0	0.00
01147 SELENIUM, TOTAL	Fresh Acute	20.	4	0	0.00							2	0	0.00	2	0	0.00
	Drinking Water	50.	4	0	0.00							2	0	0.00	2	0	0.00

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

EPA Water Quality Criteria Analysis for Station: ISR00024

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	4	0	0.00							2	0	0.00	2	0	0.00
71900 MERCURY, TOTAL	Fresh Acute	2.4	4	0	0.00							2	0	0.00	2	0	0.00
	Drinking Water	2.	4	0	0.00							2	0	0.00	2	0	0.00

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

Station Inventory for Station: ISR00025

NPS Station ID: ISR00025 LAT/LON: 48.161948/ -88.591670 Agency: 21MICH Date Created: / /
Location: L. SUPERIOR@ISLE ROYALE .4KM NE AMYGLD. IS. FIPS State/County: 26996 MICHIGAN/
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 420021
RMI-Indexes:
RMI-Miles:
HUC: 04020300 Depth of Water: 246 Aquifer:
Major Basin: MAJ BASIN: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: - ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
LAKE SUPERIOR, ISLE ROYALE; 076 DEGREES TRUE TO BLAKE PT. LT., 071 DEGREES TRUE TO THE SW MOST END OF STEAMBOAT IS. TOTAL DEPTH 75 METERS (246 FT.). WATER QUALITY AND BIOTA SAMPLES ARE DETERMINED AT THIS STATION.

Parameter Inventory for Station: ISR00025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/26/74-06/26/75	6	0.55	0.583	0.8	0.5	0.014	0.117	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/26/74-06/26/75	6	98.	97.333	100.	94.	7.467	2.733	**	**	**	**
00335 COD, .025N K2CR2O7 MG/L	06/26/74-06/26/75	6	5.25	5.85	10.	1.6	8.551	2.924	**	**	**	**
00339 COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	08/26/74-08/26/74	1	12000.	12000.	12000.	12000.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	06/26/74-06/26/75	6	7.55	7.533	7.7	7.3	0.019	0.137	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	06/26/74-06/26/75	6	7.547	7.514	7.7	7.3	0.019	0.138	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/74-06/26/75	6	0.028	0.031	0.05	0.02	0.	0.011	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	06/26/74-06/26/75	6	42.5	42.333	44.	40.	1.867	1.366	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/26/74-08/26/74	4##	0.75	0.75	1.	0.5	0.083	0.289	**	**	**	**
00535 RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/26/74-08/26/74	4##	0.75	0.75	1.	0.5	0.083	0.289	**	**	**	**
00553 OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,MG/KG	08/26/74-08/26/74	1	460.	460.	460.	460.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/26/74-06/26/75	8	0.004	0.004	0.008	0.001	0.	0.003	**	**	**	**
00611 NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	08/26/74-08/26/74	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	06/26/74-06/26/75	8	0.001	0.001	0.002	0.001	0.	0.	**	**	**	**
00616 NITRITE NITROGEN, BOTTOM DEPOS. (MG/KG-N DRY WGT)	08/26/74-08/26/74	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	06/26/74-06/26/75	8	0.28	0.28	0.3	0.26	0.	0.021	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/26/74-06/26/75	8	0.092	0.112	0.29	0.052	0.006	0.075	**	**	**	**
00627 NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	08/26/74-08/26/74	1	340.	340.	340.	340.	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	06/26/74-06/26/75	8	0.003	0.004	0.017	0.001	0.	0.005	**	**	**	**
00668 PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/26/74-08/26/74	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	06/26/74-06/26/75	6	45.	44.833	46.	44.	0.567	0.753	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)	06/26/74-08/26/74	4	13.8	13.7	14.	13.2	0.147	0.383	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	06/26/74-08/26/74	4	3.15	3.15	3.2	3.1	0.003	0.058	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS NA)	06/26/74-08/26/74	4	1.65	1.7	2.2	1.3	0.18	0.424	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	06/26/74-08/26/74	4	0.465	0.47	0.54	0.41	0.004	0.065	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	06/26/74-06/26/75	6	1.	1.	1.	1.	0.	0.	**	**	**	**
00946 SULFATE, DISSOLVED (MG/L AS SO4)	06/26/74-06/26/75	6	3.25	3.317	4.2	2.8	0.234	0.483	**	**	**	**
00958 SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	06/26/74-06/26/75	6	1.05	1.083	1.2	1.	0.01	0.098	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	06/26/74-08/26/74	4##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/26/74-08/26/74	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
01025 CADMIUM, DISSOLVED (UG/L AS CD)	06/26/74-06/26/74	2##	1.	1.	1.	1.	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	06/26/74-08/26/74	4##	1.	1.	1.	1.	0.	0.	**	**	**	**
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/26/74-08/26/74	1##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**

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

Parameter Inventory for Station: ISR00025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/26/74-08/26/74	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/26/74-06/26/74	2##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/26/74-08/26/74	4##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	06/26/74-06/26/74	2##	2.75	2.75	5.	0.5	10.125	3.182	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/26/74-08/26/74	4	4.	3.75	5.	2.	1.583	1.258	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/26/74-08/26/74	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/26/74-08/26/74	4	13.5	14.25	17.	13.	3.583	1.893	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	06/26/74-06/26/74	2	12.	12.	14.	10.	8.	2.828	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	06/26/74-06/26/74	2##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/26/74-08/26/74	4##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/26/74-08/26/74	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/26/74-08/26/74	1	300.	300.	300.	300.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/26/74-08/26/74	4	1.	1.	1.	1.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/26/74-06/26/74	2##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	06/26/74-06/26/74	2##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/26/74-08/26/74	4##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/26/74-08/26/74	1	38.	38.	38.	38.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	06/26/74-06/26/74	2	7.	7.	9.	5.	8.	2.828	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/26/74-08/26/74	4	7.	7.25	11.	4.	8.917	2.986	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/26/74-08/26/74	1	44.	44.	44.	44.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	06/26/74-08/26/74	4##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/26/74-08/26/74	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/26/74-08/26/74	1	9600.	9600.	9600.	9600.	0.	0.	**	**	**	**
31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/26/74-08/26/74	4##	50.	50.	50.	50.	0.	0.	**	**	**	**
31504	LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,	06/26/74-08/26/74	4##	1.699	1.699	1.699	1.699	0.	0.	**	**	**	**
31504	GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3			GEOMETRIC MEAN =	50.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/26/74-08/26/74	4##	5.	5.	5.	5.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/26/74-08/26/74	4##	0.699	0.699	0.699	0.699	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	5.								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	06/26/74-08/26/74	4##	5.	5.	5.	5.	0.	0.	**	**	**	**
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	06/26/74-08/26/74	4##	0.699	0.699	0.699	0.699	0.	0.	**	**	**	**
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4			GEOMETRIC MEAN =	5.								
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/26/74-06/26/75	5	1.8	1.88	3.	0.9	1.007	1.003	**	**	**	**
39102	BIS(2-ETHYLHEXYL) PHTHALATE,SEDIMENT,DRY WGT,UG/KG	08/26/74-08/26/74	1##	45.	45.	45.	45.	0.	0.	**	**	**	**
39112	DI-N-BUTYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	08/26/74-08/26/74	1##	30.	30.	30.	30.	0.	0.	**	**	**	**
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/26/74-08/26/74	1##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39305	O,P' DDT IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/26/74-08/26/74	1##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/26/74-08/26/74	1##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/26/74-08/26/74	1##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/26/74-08/26/74	1##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	06/26/75-06/26/75	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/26/74-08/26/74	1##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	06/26/75-06/26/75	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/26/74-08/26/74	1##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/26/74-08/26/74	1##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	06/26/75-06/26/75	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/26/74-08/26/74	4	54.5	54.5	55.	54.	0.333	0.577	**	**	**	**
70310	PH, STANDARD UNITS, BOTTOM MUDS	08/26/74-08/26/74	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
70310	CONVERTED PH, STANDARD UNITS, BOTTOM MUDS	08/26/74-08/26/74	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
70310	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/74-08/26/74	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	08/26/74-08/26/74	1	60.	60.	60.	60.	0.	0.	**	**	**	**
70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	08/26/74-08/26/74	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/26/74-06/26/75	8##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	06/26/74-06/26/74	2##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	06/26/74-08/26/74	4##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/26/74-08/26/74	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: ISR00025

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	6	0	0.00							4	0	0.00	2	0	0.00
00400	PH	Other-Hi Lim.	9.	6	0	0.00							4	0	0.00	2	0	0.00
		Other-Lo Lim.	6.5	6	0	0.00							4	0	0.00	2	0	0.00
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	8	0	0.00							5	0	0.00	3	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	8	0	0.00							5	0	0.00	3	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	6	0	0.00							4	0	0.00	2	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	6	0	0.00							4	0	0.00	2	0	0.00
01002	ARSENIC, TOTAL	Fresh Acute	360.	4	0	0.00							2	0	0.00	2	0	0.00
		Drinking Water	50.	4	0	0.00							2	0	0.00	2	0	0.00
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	2	0	0.00							2	0	0.00			
		Drinking Water	5.	2	0	0.00							2	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	4	0	0.00							2	0	0.00	2	0	0.00
		Drinking Water	5.	4	0	0.00							2	0	0.00	2	0	0.00
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00							2	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	4	0	0.00							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			
01042	COPPER, TOTAL	Fresh Acute	18.	4	0	0.00							2	0	0.00	2	0	0.00
		Drinking Water	1300.	4	0	0.00							2	0	0.00	2	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute	82.	2	0	0.00							2	0	0.00			
		Drinking Water	5.	2	0	0.00							2	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	4	0	0.00							2	0	0.00	2	0	0.00
		Drinking Water	5.	4	0	0.00							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			
01067	NICKEL, TOTAL	Fresh Acute	1400.	4	0	0.00							2	0	0.00	2	0	0.00
		Drinking Water	100.	4	0	0.00							2	0	0.00	2	0	0.00
01090	ZINC, DISSOLVED	Fresh Acute	120.	2	0	0.00							2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	4	0	0.00							2	0	0.00	2	0	0.00
01147	SELENIUM, TOTAL	Fresh Acute	20.	4	0	0.00							2	0	0.00	2	0	0.00
		Drinking Water	50.	4	0	0.00							2	0	0.00	2	0	0.00
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	4	0	0.00							2	0	0.00	2	0	0.00
39300	P,P' DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	1	0	0.00							1	0	0.00			
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	1	0	0.00							1	0	0.00			
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	1	0	0.00							1	0	0.00			
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	1	0	0.00							1	0	0.00			
39782	LINDANE IN WHOLE WATER SAMPLE	Fresh Acute	2.	1	0	0.00							1	0	0.00			
		Drinking Water	0.2	1	0	0.00							1	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	2	0	0.00							2	0	0.00			
		Drinking Water	2.	2	0	0.00							2	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	4	0	0.00							2	0	0.00	2	0	0.00
		Drinking Water	2.	4	0	0.00							2	0	0.00	2	0	0.00

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

Station Inventory for Station: ISR00026

NPS Station ID: ISR00026 LAT/LON: 48.162781/ -88.576671 Agency: 21MICH Date Created: / /
Location: L. SUPERIOR@ISLE ROYALE .8KM NE AMYGLD. IS. FIPS State/County: 26996 MICHIGAN/
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 420020
RMI-Indexes:
RMI-Miles:
HUC: 04020300 Depth of Water: 200 Aquifer:
Major Basin: MAJ BASIN: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: - ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
LAKE SUPERIOR. ISLE ROYLE: 075 DEGREES TRUE TO BLAKE PT. LT., 060 DEGREES TRUE TO THE SW MOST END OF STEAMBOAT IS. TOTAL DEPTH 61 METERS (200 FT.). WATER QUALITY AND BIOTA SAMPLES ARE COLLECTED AT THIS STATION.

Parameter Inventory for Station: ISR00026

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/26/74-06/26/74	2	0.75	0.75	0.8	0.7	0.005	0.071	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/26/74-06/26/74	2	84.	84.	94.	74.	200.	14.142	**	**	**	**
00335 COD, .025N K2CR207 MG/L	06/26/74-06/26/74	2	5.25	5.25	5.5	5.	0.125	0.354	**	**	**	**
00400 PH (STANDARD UNITS)	06/26/74-06/26/74	2	7.3	7.3	7.4	7.2	0.02	0.141	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	06/26/74-06/26/74	2	7.289	7.289	7.4	7.2	0.02	0.142	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/74-06/26/74	2	0.051	0.051	0.063	0.04	0.	0.016	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	06/26/74-06/26/74	2	43.5	43.5	44.	43.	0.5	0.707	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/26/74-06/26/74	2##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00535 RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/26/74-06/26/74	2##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/26/74-06/26/74	3	0.004	0.004	0.004	0.003	0.	0.001	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	06/26/74-06/26/74	3	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	06/26/74-06/26/74	3	0.27	0.27	0.27	0.27	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/26/74-06/26/74	3	0.083	0.087	0.097	0.082	0.	0.008	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	06/26/74-06/26/74	3	0.002	0.002	0.004	0.001	0.	0.002	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	06/26/74-06/26/74	2	45.	45.	45.	45.	0.	0.	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)	06/26/74-06/26/74	2	13.6	13.6	13.6	13.6	0.	0.	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	06/26/74-06/26/74	2	3.15	3.15	3.2	3.1	0.005	0.071	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS NA)	06/26/74-06/26/74	2	2.2	2.2	2.5	1.9	0.18	0.424	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	06/26/74-06/26/74	2	0.415	0.415	0.45	0.38	0.002	0.049	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	06/26/74-06/26/74	2	1.	1.	1.	1.	0.	0.	**	**	**	**
00946 SULFATE, DISSOLVED (MG/L AS SO4)	06/26/74-06/26/74	2	3.35	3.35	3.4	3.3	0.005	0.071	**	**	**	**
00958 SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	06/26/74-06/26/74	2	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	06/26/74-06/26/74	2##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	06/25/74-06/25/74	2##	1.	1.	1.	1.	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	06/25/74-06/25/74	2##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	06/25/74-06/25/74	2##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	06/25/74-06/25/74	2	53.	53.	53.	53.	0.	0.	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)	06/25/74-06/25/74	2##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	06/25/74-06/25/74	2	1.	1.	1.	1.	0.	0.	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)	06/25/74-06/25/74	2##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	06/25/74-06/25/74	2	3.	3.	3.	3.	0.	0.	**	**	**	**
01147 SELENIUM, TOTAL (UG/L AS SE)	06/26/74-06/26/74	2##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31504 COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/26/74-06/26/74	2	200.	200.	200.	200.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: ISR00026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31504	LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,	06/26/74-06/26/74	2	2.301	2.301	2.301	2.301	0.	0.	**	**	**	**
31504	GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3		GEOMETRIC MEAN =	200.									
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/26/74-06/26/74	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/26/74-06/26/74	2##	0.699	0.699	0.699	0.699	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =	5.									
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	06/26/74-06/26/74	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	06/26/74-06/26/74	2##	0.699	0.699	0.699	0.699	0.	0.	**	**	**	**
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4		GEOMETRIC MEAN =	5.									
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/26/74-06/26/74	2	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/26/74-06/26/74	2	55.5	55.5	56.	55.	0.5	0.707	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/26/74-06/26/74	3##	0.001	0.001	0.002	0.001	0.	0.001	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	06/25/74-06/25/74	2##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: ISR00026

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	2	0	0.00							2	0	0.00			
00400	PH	Other-Hi Lim.	9.	2	0	0.00							2	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00							2	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	3	0	0.00							3	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	3	0	0.00							3	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00							2	0	0.00			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	2	0	0.00							2	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00							2	0	0.00			
		Drinking Water	50.	2	0	0.00							2	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00							2	0	0.00			
		Drinking Water	5.	2	0	0.00							2	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00							2	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00							2	0	0.00			
		Drinking Water	1300.	2	0	0.00							2	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00							2	0	0.00			
		Drinking Water	5.	2	0	0.00							2	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00							2	0	0.00			
		Drinking Water	100.	2	0	0.00							2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00							2	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00							2	0	0.00			
		Drinking Water	50.	2	0	0.00							2	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	2	0	0.00							2	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00							2	0	0.00			
		Drinking Water	2.	2	0	0.00							2	0	0.00			

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

EPA Water Quality Criteria Analysis for Entire ISRO Study Area

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	49	0	0.00							17	0	0.00	32	0	0.00
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	66	0	0.00	10	0	0.00	1	0	0.00	36	0	0.00	19	0	0.00
00154 SULFATE (AS S) WHOLE WATER	Drinking Water	400.	2	0	0.00										2	0	0.00
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	191	0	0.00	19	0	0.00	13	0	0.00	79	0	0.00	80	0	0.00
00400 PH	Other-Hi Lim.	9.	210	0	0.00	26	0	0.00	8	0	0.00	104	0	0.00	72	0	0.00
	Other-Lo Lim.	6.5	210	1	0.00	26	0	0.00	8	0	0.00	104	1	0.01	72	0	0.00
00403 PH, LAB	Other-Hi Lim.	9.	63	0	0.00	11	0	0.00	1	0	0.00	22	0	0.00	29	0	0.00
	Other-Lo Lim.	6.5	63	0	0.00	11	0	0.00	1	0	0.00	22	0	0.00	29	0	0.00
00409 ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	2	0	0.00										2	0	0.00
00613 NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	39	0	0.00	7	0	0.00	1	0	0.00	11	0	0.00	20	0	0.00
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	42	0	0.00	2	0	0.00				27	0	0.00	13	0	0.00
00618 NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	52	0	0.00	8	0	0.00	1	0	0.00	24	0	0.00	19	0	0.00
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	34	0	0.00							24	0	0.00	10	0	0.00
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	60	0	0.00	10	0	0.00	6	0	0.00	22	0	0.00	22	0	0.00
00631 NITRATE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	101	0	0.00	12	0	0.00	2	0	0.00	43	0	0.00	44	0	0.00
00720 CYANIDE, TOTAL	Fresh Acute	0.022	18	0	0.00	1	0	0.00				8	0	0.00	9	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	197	0	0.00	25	0	0.00	8	0	0.00	88	0	0.00	76	0	0.00
00941 CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	2	0	0.00										2	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	151	0	0.00	25	0	0.00	8	0	0.00	58	0	0.00	60	0	0.00
00946 SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	29	0	0.00							23	0	0.00	6	0	0.00
01000 ARSENIC, DISSOLVED	Fresh Acute	360.	37	0	0.00	5	0	0.00	1	0	0.00	14	0	0.00	17	0	0.00
	Drinking Water	50.	37	0	0.00	5	0	0.00	1	0	0.00	14	0	0.00	17	0	0.00
01001 ARSENIC, SUSPENDED	Fresh Acute	360.	5	0	0.00							2	0	0.00	3	0	0.00
	Drinking Water	50.	5	0	0.00							2	0	0.00	3	0	0.00
01002 ARSENIC, TOTAL	Fresh Acute	360.	38	0	0.00	1	0	0.00				20	0	0.00	17	0	0.00
	Drinking Water	50.	38	0	0.00	1	0	0.00				20	0	0.00	17	0	0.00
01005 BARIUM, DISSOLVED	Drinking Water	2000.	41	0	0.00	7	0	0.00	1	0	0.00	16	0	0.00	17	0	0.00
01006 BARIUM, SUSPENDED	Drinking Water	2000.	2	0	0.00							2	0	0.00			
01007 BARIUM, TOTAL	Drinking Water	2000.	19	0	0.00	1	0	0.00				9	0	0.00	9	0	0.00
01010 BERYLLIUM, DISSOLVED	Fresh Acute	130.	35	0	0.00	5	0	0.00	1	0	0.00	14	0	0.00	15	0	0.00
01025 CADMIUM, DISSOLVED	Fresh Acute	3.9	39	0	0.00	5	0	0.00	1	0	0.00	16	0	0.00	17	0	0.00
	Drinking Water	5.	39	0	0.00	5	0	0.00	1	0	0.00	16	0	0.00	17	0	0.00
01026 CADMIUM, SUSPENDED	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
	Drinking Water	5.	1	0	0.00							1	0	0.00			
01027 CADMIUM, TOTAL	Fresh Acute	3.9	41	1	0.02	1	0	0.00				22	0	0.00	18	1	0.06
	Drinking Water	5.	41	1	0.02	1	0	0.00				22	0	0.00	18	1	0.06
01030 CHROMIUM, DISSOLVED	Drinking Water	100.	39	0	0.00	5	0	0.00	1	0	0.00	18	0	0.00	15	0	0.00
01031 CHROMIUM, SUSPENDED	Drinking Water	100.	5	0	0.00							2	0	0.00	3	0	0.00
01032 CHROMIUM, HEXAVALENT	Fresh Acute	16.	1	0	0.00										1	0	0.00
	Drinking Water	100.	1	0	0.00										1	0	0.00
01034 CHROMIUM, TOTAL	Drinking Water	100.	41	0	0.00	1	0	0.00				22	0	0.00	18	0	0.00
01040 COPPER, DISSOLVED	Fresh Acute	18.	43	0	0.00	5	0	0.00	1	0	0.00	21	0	0.00	16	0	0.00
	Drinking Water	1300.	43	0	0.00	5	0	0.00	1	0	0.00	21	0	0.00	16	0	0.00
01041 COPPER, SUSPENDED	Fresh Acute	18.	1	0	0.00										1	0	0.00
	Drinking Water	1300.	1	0	0.00										1	0	0.00
01042 COPPER, TOTAL	Fresh Acute	18.	42	1	0.02	1	0	0.00				23	1	0.04	18	0	0.00
	Drinking Water	1300.	42	0	0.00	1	0	0.00				23	0	0.00	18	0	0.00
01049 LEAD, DISSOLVED	Fresh Acute	82.	44	0	0.00	5	0	0.00	1	0	0.00	21	0	0.00	17	0	0.00
	Drinking Water	5.	41&	4	0.10	5	0	0.00	1	0	0.00	19	2	0.11	16	2	0.13
01050 LEAD, SUSPENDED	Fresh Acute	82.	2	0	0.00							1	0	0.00	1	0	0.00
	Drinking Water	5.	2	0	0.00							1	0	0.00	1	0	0.00
01051 LEAD, TOTAL	Fresh Acute	82.	41	0	0.00	1	0	0.00				23	0	0.00	17	0	0.00
	Drinking Water	5.	41	11	0.27	1	1	1.00				23	5	0.22	17	5	0.29
01065 NICKEL, DISSOLVED	Fresh Acute	1400.	43	0	0.00	7	0	0.00	1	0	0.00	20	0	0.00	15	0	0.00
	Drinking Water	100.	43	0	0.00	7	0	0.00	1	0	0.00	20	0	0.00	15	0	0.00
01067 NICKEL, TOTAL	Fresh Acute	1400.	23	0	0.00							14	0	0.00	9	0	0.00
	Drinking Water	100.	23	0	0.00							14	0	0.00	9	0	0.00
01075 SILVER, DISSOLVED	Fresh Acute	4.1	41	0	0.00	7	0	0.00	1	0	0.00	16	0	0.00	17	0	0.00
	Drinking Water	50.	41	0	0.00	7	0	0.00	1	0	0.00	16	0	0.00	17	0	0.00
01076 SILVER, SUSPENDED	Fresh Acute	4.1	4	0	0.00							2	0	0.00	2	0	0.00
	Drinking Water	50.	4	0	0.00							2	0	0.00	2	0	0.00
01077 SILVER, TOTAL	Fresh Acute	4.1	19	0	0.00	1	0	0.00				9	0	0.00	9	0	0.00
	Drinking Water	50.	19	0	0.00	1	0	0.00				9	0	0.00	9	0	0.00

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

EPA Water Quality Criteria Analysis for Entire ISRO Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	1/01- 2/29 Obs	1/01- 2/29 Exceed	1/01- 2/29 Prop.	3/01- 4/20 Obs	3/01- 4/20 Exceed	3/01- 4/20 Prop.	4/21- 8/10 Obs	4/21- 8/10 Exceed	4/21- 8/10 Prop.	8/11-12/31 Obs	8/11-12/31 Exceed	8/11-12/31 Prop.
01090	ZINC, DISSOLVED	Fresh Acute	120.	42	1	0.02	5	0	0.00	1	0	0.00	19	0	0.00	17	1	0.06
01091	ZINC, SUSPENDED	Fresh Acute	120.	2	0	0.00							1	0	0.00	1	0	0.00
01092	ZINC, TOTAL	Fresh Acute	120.	41	1	0.02	1	0	0.00				23	1	0.04	17	0	0.00
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	41	0	0.00	7	0	0.00	1	0	0.00	16	0	0.00	17	0	0.00
		Drinking Water	50.	41	0	0.00	7	0	0.00	1	0	0.00	16	0	0.00	17	0	0.00
01146	SELENIUM, SUSPENDED	Fresh Acute	20.	4	0	0.00							2	0	0.00	2	0	0.00
		Drinking Water	50.	4	0	0.00							2	0	0.00	2	0	0.00
01147	SELENIUM, TOTAL	Fresh Acute	20.	33	0	0.00	1	0	0.00				17	0	0.00	15	0	0.00
		Drinking Water	50.	33	0	0.00	1	0	0.00				17	0	0.00	15	0	0.00
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	12	0	0.00							5	0	0.00	7	0	0.00
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	42	6	0.14	6	2	0.33	6	0	0.00	17	2	0.12	13	2	0.15
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	1	0	0.00							1	0	0.00			
31507	COLIFORM, TOTAL, MPN	Other-Hi Lim.	1000.	26	4	0.15	3	1	0.33	1	0	0.00	12	2	0.17	10	1	0.10
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	35	4	0.11	3	0	0.00	2	0	0.00	17	0	0.00	13	4	0.31
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	71	6	0.08	12	0	0.00	5	0	0.00	29	1	0.03	25	5	0.20
39300	P,P' DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	6	0	0.00							6	0	0.00			
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	16	0	0.00							2	0	0.00	14	0	0.00
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	16	0	0.00							2	0	0.00	14	0	0.00
		Drinking Water	0.2	16	0	0.00							2	0	0.00	14	0	0.00
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	17	0	0.00							6	0	0.00	11	0	0.00
		Drinking Water	2.	17	0	0.00							6	0	0.00	11	0	0.00
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	22	0	0.00							8	0	0.00	14	0	0.00
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	22	0	0.00							8	0	0.00	14	0	0.00
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	16	0	0.00							2	0	0.00	14	0	0.00
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	22	0	0.00							8	0	0.00	14	0	0.00
39388	ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute	0.22	5	0	0.00										5	0	0.00
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	16	0	0.00							2	0	0.00	14	0	0.00
		Drinking Water	0.2	16	0	0.00							2	0	0.00	14	0	0.00
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	8	0	0.00										8	0	0.00
		Drinking Water	3.	8	0	0.00										8	0	0.00
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	16	0	0.00							2	0	0.00	14	0	0.00
		Drinking Water	0.4	16	0	0.00							2	0	0.00	14	0	0.00
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	11	0	0.00										11	0	0.00
		Drinking Water	0.2	11	0	0.00										11	0	0.00
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	3	0	0.00										3	0	0.00
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	9	0	0.00										9	0	0.00
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	14	0	0.00							2	0	0.00	12	0	0.00
39733	2,4-D IN SUSP. FRAC. OF WATER SAMPLE	Drinking Water	70.	8	0	0.00							2	0	0.00	6	0	0.00
39760	SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	14	0	0.00							2	0	0.00	12	0	0.00
39782	LINDANE IN WHOLE WATER SAMPLE	Fresh Acute	2.	6	0	0.00							6	0	0.00			
		Drinking Water	0.2	6	0	0.00							6	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	54	0	0.00	8	0	0.00	1	0	0.00	24	0	0.00	21	0	0.00
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	41	0	0.00	5	0	0.00	1	0	0.00	18	0	0.00	17	0	0.00
		Drinking Water	2.	41	0	0.00	5	0	0.00	1	0	0.00	18	0	0.00	17	0	0.00
71895	MERCURY, SUSPENDED	Fresh Acute	2.4	3	0	0.00							1	0	0.00	2	0	0.00
		Drinking Water	2.	3	0	0.00							1	0	0.00	2	0	0.00
71900	MERCURY, TOTAL	Fresh Acute	2.4	37	0	0.00	1	0	0.00				20	0	0.00	16	0	0.00
		Drinking Water	2.	37	0	0.00	1	0	0.00				20	0	0.00	16	0	0.00
80020	URANIUM, DISS. BY EXTRACTION FLUOROMETRI	Drinking Water	20.	24	0	0.00	1	0	0.00				5	0	0.00	18	0	0.00
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	2	0	0.00										2	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the edit 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 is STORET Data for Every Level I I&M Parameter Group Within the ISRO 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 ISRO Study Area Exist for These Groups:

Alkalinity	Total Obs.	01/01/85 to 02/10/93	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00409 ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYSIS (UEQ/L)	2	0	2	0	2
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	160	14	52	94	12
00440 BICARBONATE ION (MG/L AS HCO3)	88	6	24	58	1
00445 CARBONATE ION (MG/L AS CO3)	90	6	26	58	1
	340	26	104	210	16

pH	Total Obs.	01/01/85 to 02/10/93	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00400 PH (STANDARD UNITS)	210	53	78	79	11
00403 PH, LAB (STANDARD UNITS)	63	41	22	0	11
	273	94	100	79	22

Conductivity	Total Obs.	01/01/85 to 02/10/93	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	238	52	82	104	14
	238	52	82	104	14

Dissolved Oxygen	Total Obs.	01/01/85 to 02/10/93	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00300 OXYGEN, DISSOLVED (MG/L)	191	49	57	85	4
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION	107	0	47	60	3
	298	49	104	145	7

Water Temperature	Total Obs.	01/01/85 to 02/10/93	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	267	55	76	136	7
	267	55	76	136	7

Flow	Total Obs.	01/01/85 to 02/10/93	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00060 FLOW, STREAM, MEAN DAILY CFS	3	0	0	3	1
00061 FLOW, STREAM, INSTANTANEOUS CFS	173	39	59	75	1
00065 STAGE, STREAM (FEET)	159	36	57	66	1
	335	75	116	144	3

Clarity/Turbidity	Total Obs.	01/01/85 to 02/10/93	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00070 TURBIDITY, (JACKSON CANDLE UNITS)	49	0	3	46	3
00076 TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	66	31	21	14	10
00078 TRANSPARENCY, SECCHI DISC (METERS)	10	1	2	7	5
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	27	0	3	24	5
82079 TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	2	0	2	0	2
	154	32	31	91	25

Nitrate/Nitrogen		Total Obs.	01/01/85 to 02/10/93	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00600	NITROGEN, TOTAL (MG/L AS N)	6	0	6	0	1
00602	NITROGEN, DISSOLVED (MG/L AS N)	10	9	1	0	9
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	12	5	7	0	1
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	4	0	4	0	1
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	91	42	22	27	11
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	67	27	19	21	10
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	52	0	0	52	1
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	34	0	12	22	10
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	6	1	5	0	1
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	84	33	30	21	10
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	60	9	46	5	1
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	101	42	29	30	12
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	1	0	1	0	1
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	18	6	12	0	1
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	54	0	2	52	3
		600	174	196	230	73

Phosphate/Phosphorus		Total Obs.	01/01/85 to 02/10/93	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	1	0	1	0	1
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	8	0	8	0	1
00665	PHOSPHORUS, TOTAL (MG/L AS P)	191	33	68	90	12
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	71	33	22	16	3
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	89	40	19	30	12
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	42	9	12	21	10
		402	115	130	157	39

Chlorophyll		Total Obs.	01/01/85 to 02/10/93	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
32209	CHLOROPHYLL A (UG/L) FLUOROMETRIC CORRECTED	20	0	6	14	9
32210	CHLOROPHYLL A (UG/L) TRICHROMATIC UNCORRECTED	4	0	0	4	1
		24	0	6	18	10

Sulfates/Total Dissolved Solids/Hardness		Total Obs.	01/01/85 to 02/10/93	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00900	HARDNESS, TOTAL (MG/L AS CACO3)	136	5	60	71	10
00945	SULFATE, TOTAL (MG/L AS SO4)	151	40	54	57	9
00946	SULFATE, DISSOLVED (MG/L AS SO4)	29	0	15	14	10
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	145	32	55	58	1
		461	77	184	200	30

Bacteria		Total Obs.	01/01/85 to 02/10/93	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
31501	COLIFORM, TOT, MEMBRANE FILTER,IMMED.M-ENDOMED,35C	42	0	30	12	1
31505	COLIFORM, TOT, MPN, CONFIRMED TEST,35C(TUBE 31506)	1	0	0	1	1
31507	COLIFORM, TOT, MPN, COMPLETED TEST,35C(TUBE 31508)	26	0	0	26	1
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C	35	0	11	24	6
31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	71	31	40	0	1
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	70	31	38	1	2
		245	62	119	64	12

Toxic Elements		Total Obs.	01/01/85 to 02/10/93	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
01000	ARSENIC, DISSOLVED (UG/L AS AS)	39	24	13	2	3
01001	ARSENIC, SUSPENDED (UG/L AS AS)	5	0	5	0	1
01002	ARSENIC, TOTAL (UG/L AS AS)	40	0	19	21	7
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	35	24	11	0	1
01025	CADMIUM, DISSOLVED (UG/L AS CD)	39	24	11	4	2
01026	CADMIUM, SUSPENDED (UG/L AS CD)	1	0	1	0	1
01027	CADMIUM, TOTAL (UG/L AS CD)	41	0	18	23	7
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	39	24	12	3	4
01031	CHROMIUM, SUSPENDED (UG/L AS CR)	5	0	5	0	1
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	1	0	0	1	1
01034	CHROMIUM, TOTAL (UG/L AS CR)	42	0	19	23	7
01040	COPPER, DISSOLVED (UG/L AS CU)	43	24	16	3	5
01041	COPPER, SUSPENDED (UG/L AS CU)	1	0	1	0	1
01042	COPPER, TOTAL (UG/L AS CU)	42	0	19	23	7
01049	LEAD, DISSOLVED (UG/L AS PB)	44	24	16	4	5
01050	LEAD, SUSPENDED (UG/L AS PB)	2	0	2	0	1
01051	LEAD, TOTAL (UG/L AS PB)	41	0	18	23	7
71890	MERCURY, DISSOLVED (UG/L AS HG)	41	24	11	6	2
71895	MERCURY, SUSPENDED (UG/L AS HG)	3	0	3	0	1
71900	MERCURY, TOTAL (UG/L AS HG)	37	0	19	18	7
01065	NICKEL, DISSOLVED (UG/L AS NI)	43	30	10	3	5
01067	NICKEL, TOTAL (UG/L AS NI)	23	0	2	21	7
01145	SELENIUM, DISSOLVED (UG/L AS SE)	41	30	11	0	1
01146	SELENIUM, SUSPENDED (UG/L AS SE)	4	0	4	0	1
01147	SELENIUM, TOTAL (UG/L AS SE)	33	0	17	16	5
01075	SILVER, DISSOLVED (UG/L AS AG)	41	30	11	0	1
01076	SILVER, SUSPENDED (UG/L AS AG)	4	0	4	0	1
01077	SILVER, TOTAL (UG/L AS AG)	19	0	17	2	1
01090	ZINC, DISSOLVED (UG/L AS ZN)	43	24	15	4	4
01091	ZINC, SUSPENDED (UG/L ZN)	2	0	2	0	1
01092	ZINC, TOTAL (UG/L AS ZN)	41	0	19	22	7
00720	CYANIDE, TOTAL (MG/L AS CN)	18	0	17	1	1
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	16	0	7	9	1
39340	GAMMA-BHC(LINDANE), WHOLE WATER (UG/L)	16	0	7	9	1
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	6	0	6	0	6
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATER (UG/L)	17	0	13	4	7
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	6	0	6	0	6
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	16	0	7	9	1
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	22	0	13	9	7
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	22	0	13	9	7
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	22	0	13	9	7
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	16	0	7	9	1
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	16	0	7	9	1
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	11	0	7	4	1
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE (UG/L)	6	0	6	0	6
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE (UG/L)	6	0	6	0	6
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	8	0	7	1	1
		1059	282	473	304	165

Water Quality Observations
Outside STORET Edit Criteria for ISRO

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter	Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
ISRO0005	00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	880509	1630	0.0000000	112WRD	04001000	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 six (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 six 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 simply 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 six 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 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) ISROTABS.ZIP

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

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

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

(c) ISROOV0.DOC - Overview of park and retrieved data.

(d) ISROOV1.DOC - Station period of record table.

(e) ISROOV2.DOC - Parameter period of record table.

(f) ISROOV3.DOC - Station/parameter period of record table.

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

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

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

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

(k) ISROBAD.DOC - Water quality observation values that were outside the range of one of 189 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 ISROOV1.DOC is in the subdirectory C:\WATER, you could type: PRINT C:\WATER\ISROOV1.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) ISROFIGS.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 ISRO0001. 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 ISRO0001) 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) ISROPARM.ZIP

This file compresses ISROPARM.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) ISROSITE.ZIP

This compressed file contains four 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, and USGS stream gages. These files include:

(a) ISROWQ.DBF - All water quality monitoring station locations within the project's study area downloaded from STORET.

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

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

(d) ISROGAGE.DBF - All USGS stream gages within the study area downloaded from the GAGES 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) ISRORF3.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.

(6) ISROMISC.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) ISROEXEC.DOC - WordPerfect Ver. 5.1 copy of the Executive Summary in the report.

(b) ISROTOC.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) ISROREGI - .PCL and .CGM copies of map displaying the regional location of the park and study area.

(e) ISROWQ - .PCL and .CGM 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 (ISROWQA, ISROWQB, ISROWQC, etc.) and the index map name will end with an ampersand (&).

(f) ISROIDG - .PCL and .CGM 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 (ISROIDGA, ISROIDGB, ISROIDGC, etc.) and the index map name will end with an ampersand (&). If no industrial facilities discharges, drinking water intakes, or stream gages exist within the park's study area, these files will not be in the compressed (ZIP) file.

(g) ISROSEHY - .PCL and .CGM 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.

(h) APPENDIX.DOC - WordPerfect Ver. 5.1 copy of all the Appendices in the report.

Other materials may also be included in this miscellaneous compressed (ZIP) file as warranted by conditions at the park. As with ISROFIGS.ZIP and ISROTABS.ZIP, you can use the PRINTZIP program to print any of the .PCL files in ISROMISC.ZIP provided the ZIP file doesn't span multiple disks. You should not, however, use PRINTZIP to print the WordPerfect document files.

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: ISROPARM.DBF in ISROPARM.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
				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
				M=Presence Verified, But Not Quantified, Below Quantification Limit; For Species, Male; For Oxygen Reduction Potential, Indicates a Negative Value

Parameter Data File: ISROPARM.DBF in ISROPARM.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
				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 meters]
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
COMPTYPE	70	70	1	Composite Value Type ["sophisticated" composite samples]
				A=Average
				H=Maximum
				L=Minimum

Parameter Data File: ISROPARM.DBF in ISROPARM.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
				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
COMPST	71	71	1	Composite Space/Time Indicator
				S=Space
				T=Time
				B=Space and Time
				F=Flow Proportional

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: ISROWQ.DBF in ISROSITE.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: ISROWQ.DBF in ISROSITE.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 meters]
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

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: ISROIFD.DBF in ISROSITE.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

Industrial Facilities Discharges File: ISROIFD.DBF in ISROSITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
FAC	221	229	9	SCS Facility Identifier (Cross-Reference)
FDS	230	232	3	Facility Data Source
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

Industrial Facilities Discharges File: ISROIFD.DBF in ISROSITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
MJMN	378	381	4	Major/Minor Basin (EPA-STORET)
NAM	382	441	60	Facility Name
NDC	442	444	3	Number of Discharges (Pipes)
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

Industrial Facilities Discharges File: ISROIFD.DBF in ISROSITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
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: ISRODRIN.DBF in ISROSITE.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

Drinking Water Intakes File: ISRODRIN.DBF in ISROSITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
IDAT	262	269	8	Date (mm/dd/yy)
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

Drinking Water Intakes File: ISRODRIN.DBF in ISROSITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
WFPC	428	428	1	Wellfield Precision Code
WFTYP	429	429	1	Well Type (Cassing,Artesian,Infiltration,etc.)
WUN	430	449	20	Water Utility Name

The following table provides the DBASE III+ database field structures for the USGS Flow Gage database. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

USGS Flow Gages File: ISROGAGE.DBF in ISROSITE.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.)

USGS Flow Gages File: ISROGAGE.DBF in ISROSITE.ZIP				
Field Name	Start	Stop	Length	Field Description
DUD	205	212	8	Date of Update
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	270	20	Station Name
SHLAT	271	276	6	Sitehelp Latitude (DDMMSS)
SHLNG	277	283	7	Sitehelp Longitude (DDDMMSS)
SHMILES	284	290	7.2	Sitehelp Miles
SHNME	291	300	10	Sitehelp Source Name
SHPCT	301	307	7.2	Sitehelp Percent of Reach Miles
SITE	308	309	2	Site Location
SRC	310	312	3	Sitehelp Source Code
STCTY	313	317	5	State/County Numeric Code
SVTEN	318	324	7.2	USGS 7-10 Year Flow

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 ISRORF3.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

RF3 Structure File: 12345678.RF3 and 12345678.DBF in ISRORF3.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
CNMCD	146	156	11	Complement Name Code
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

RF3 Structure File: 12345678.RF3 and 12345678.DBF in ISRORF3.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
NDLGREC	354	357	4	No. of DLG Records
LL1KEY1	358	367	10	Starting DLG LL Key1
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

RF3 Structure File: 12345678.RF3 and 12345678.DBF in ISRORF3.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
AR2AT4	586	589	4	DLG Area Attribute
UPDATE1	590	595	6	Update Date #1 (mmddyy)
UPDTCD1	596	603	8	Update Type Code #1
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 ISRORF3.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 ISRORF3.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 189 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

STORET Code	STORET Parameter Description	High Value	Low Value
00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE (MG/L)	30.0	0.0
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
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)
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)
00025	BAROMETRIC PRESSURE (MM OF HG)
00027	CODE NO FOR AGENCY COLLECTING SAMPLE
00028	CODE NO FOR AGENCY ANALYZING SAMPLE
00032	CLOUD COVER (PERCENT)
00033	WEATHER CODE FOR OCEAN-OBSERV. (WMO CODE 4677)
00035	WIND VELOCITY (MILES PER HOUR)
00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)
00037	WIND FORCE (BEAUFORT UNITS)
00038	WIND DIRECTION (WMO CODES 0885 + 0887)
00040	WIND DIRECTION, AZIMUTH
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)
00045	PRECIPITATION, TOTAL (INCHES PER DAY)

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
00046	PRECIPITATION, TOTAL (INCHES PER WEEK)
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
00052	HUMIDITY, RELATIVE (PERCENT)
00053	SURFACE AREA, ACRES
00054	RESERVOIR STORAGE - ACRE FEET
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION
00067	TIDE STAGE
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

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
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
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

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
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
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)

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
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)
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

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
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
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

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
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
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

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
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
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

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
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
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.

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
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
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

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
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
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

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
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
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

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
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[c]	TURBIDITY, JACKSON CANDLE UNITS	JTU	Physical
	00076				50[c]	TURBIDITY, HACH TURBIDIMETER, FORMAZIN TUR. UNITS	FTU	Physical
14808798	00154		400[p]			SULFATE (AS S) WHOLE WATER	MG/L	General Inorganic
7782447	00299	4.0				OXYGEN, DISSOLVED, ANALYSIS BY PROBE	MG/L	Dissolved Oxygen
7782447	00300	4.0				OXYGEN, DISSOLVED	MG/L	Dissolved Oxygen
	00400				<6.5, >9.0[e]	PH	SU	Physical
	00403				<6.5, >9.0[e]	PH, LAB	SU	Physical

[1]Sources: (1) U.S. Environmental Protection Agency's Quality Criteria for Water 1986 and its two updates; (2) Federal Register 40 CFR, Part 131, Environmental Protection Agency Water Quality Standards; Establishment of Numeric Criteria for Priority Toxic Pollutants; States' Compliance; Final Rule, Tuesday, December 22, 1992; and (3) Others as Noted in Footnotes.

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
	00406				<6.5, >9.0[e]	PH, FIELD	SU	Physical
471341	00409				<200[m]	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		1.0		CYANIDE, WEAK ACID, DISSOCIABLE, WATER, WHOLE	UG/L	General Inorganic
57125	00719	22		1.0		CYANIDE, FREE,IN WATER&WASTEWATERS, HBG METHOD	UG/L	General Inorganic
57125	00720	0.022		0.001		CYANIDE, TOTAL	MG/L	General Inorganic
57125	00722	0.022		0.001		CYANIDE, FREE (AMENABLE TO CHLORINATION)	MG/L	General Inorganic
57125	00723	22		1.0		CYANIDE, DISSOLVED STD METHOD	UG/L	General Inorganic
57125	00724	22		1.0		CYANIDE COMPLEXED TO A RANGE OF COMPNDS, WATER	UG/L	General Inorganic
16887006	00940	860				CHLORIDE,TOTAL IN WATER	MG/L	General Inorganic
16887006	00941	860				CHLORIDE, DISSOLVED IN WATER	MG/L	General Inorganic
14808798	00945		400[p]			SULFATE, TOTAL (AS SO4)	MG/L	General Inorganic
14808798	00946		400[p]			SULFATE, DISSOLVED (AS SO4)	MG/L	General Inorganic
1332214	00948		7000000			ASBESTOS, WHOLE SAMPLE	CNT/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

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
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*				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*				BERYLLIUM, DISSOLVED	UG/L	Metal
7440417	01011	130*				BERYLLIUM, SUSPENDED	UG/L	Metal
7440417	01012	130*				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			CHROMIUM, TRI-VAL	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440473	01034		100			CHROMIUM, TOTAL	UG/L	Metal
7440508	01040	18[+]	1300[P]	2.9		COPPER, DISSOLVED	UG/L	Metal
7440508	01041	18[+]	1300[P]	2.9		COPPER, SUSPENDED	UG/L	Metal
7440508	01042	18[+]	1300[P]	2.9		COPPER, TOTAL	UG/L	Metal
7439921	01049	82[+]	5.0[P]	220		LEAD, DISSOLVED	UG/L	Metal
7439921	01050	82[+]	5.0[P]	220		LEAD, SUSPENDED	UG/L	Metal
7439921	01051	82[+]	5.0[P]	220		LEAD, TOTAL	UG/L	Metal
7440280	01057	1400[*]	2.0[P]	2130[*]		THALLIUM, DISSOLVED	UG/L	Metal
7440280	01058	1400[*]	2.0[P]	2130[*]		THALLIUM, SUSPENDED	UG/L	Metal
7440280	01059	1400[*]	2.0[P]	2130[*]		THALLIUM, TOTAL	UG/L	Metal
7440020	01065	1400[+]	100[P]	75		NICKEL, DISSOLVED	UG/L	Metal
7440020	01066	1400[+]	100[P]	75		NICKEL, SUSPENDED	UG/L	Metal
7440020	01067	1400[+]	100[P]	75		NICKEL, TOTAL	UG/L	Metal
7440020	01074	1400[+]	100[P]	75		NICKEL, TOTAL RECOVERABLE IN WATER AS NI	UG/L	Metal
7440224	01075	4.1[+]	50	2.3		SILVER, DISSOLVED	UG/L	Metal
7440224	01076	4.1[+]	50	2.3		SILVER, SUSPENDED	UG/L	Metal
7440224	01077	4.1[+]	50	2.3		SILVER, TOTAL	UG/L	Metal
7440224	01079	4.1[+]	50	2.3		SILVER, TOTAL RECOVERABLE IN WATER AS AG	UG/L	Metal
7440508	01089	0.018[+]	1.3[P]	0.0029		COPPER AS SUSPENDED BLACK OXIDE IN WATER	MG/L	General Inorganic
7440666	01090	120[+]		95		ZINC, DISSOLVED	UG/L	Metal
7440666	01091	120[+]		95		ZINC, SUSPENDED	UG/L	Metal
7440666	01092	120[+]		95		ZINC, TOTAL	UG/L	Metal
7440666	01094	120[+]		95		ZINC, TOTAL RECOVERABLE IN WATER AS ZN	UG/L	Metal
7440360	01095	88[P]	10[P]	1500[P]		ANTIMONY, DISSOLVED	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440360	01096	88[P]	10[P]	1500[P]		ANTIMONY, SUSPENDED	UG/L	Metal
7440360	01097	88[P]	10[P]	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[+]	5.0[P]	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[P]	2.9		COPPER, TOTAL RECOVERABLE IN WATER AS CU	UG/L	Metal
7440280	01124	1400[*]	2.0[P]	2130[*]		THALLIUM, ACID SOLUBLE, WATER, WHOLE	UG/L	Metal
7440280	01128	1400[*]	2.0[P]	2130[*]		THALLIUM, TOTAL RECOVERABLE <95%	UG/L	Metal
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]	10[P]	1500[P]		ANTIMONY (SB), WATER, TOTAL RECOVERABLE	UG/L	Metal
57125	01291	22		1.0		CYANIDE, FILTERABLE, TOTAL IN WATER	UG/L	General Inorganic
7440666	01303	0.120[+]		0.095		ZINC, POTENTIALLY DISSOLVED WATER	MG/L	Metal
7440224	01304	0.0041	0.005	0.0023		SILVER, POTENTIALLY DISSOLVED WATER	MG/L	Metal
7440508	01306	0.018[+]	1.3[P]	0.0029		COPPER, POTENTIALLY DISSOLVED WATER	MG/L	Metal
18540299	01307	0.016	100	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[*]				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[+]	100			CHROMIUM, TRIVALENT, POTENTIALLY DISSOLVED	MG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7439921	01318	0.082[+]	0.005[P]	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[P]	0.075		NICKEL, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7782492	01323	0.020	0.050	0.300		SELENIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440280	01324	1.4[*]	0.002[P]	2.13[*]		THALLIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440611	01326		0.020			URANIUM, POTENTIALLY DISSOLVED, WATER	MG/L	Metal
7440224	01523	4.1[+]	50	2.3		SILVER, IONIC	UG/L	Metal
122349	04035		1.0[P]			SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE	UG/L	Pesticide
	11500		5.0			RADIUM 226 + RADIUM 228, DISSOLVED	PC/L	Radiological
	11503		5.0			RADIUM 226 + RADIUM 228, TOTAL	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
7782492	22677	20	50	300		SELENIUM, TETRAVALENT, DISSOLVED	UG/L	Metal
7440382	22678	360	50	69		ARSENIC, DISSOLVED ORGANIC	UG/L	Metal
7440382	22679	360	50	69		ARSENIC, PENTAVALENT,DISSOLVED	UG/L	Metal
7440382	22680	360	50	69		ARSENIC, TRIVALENT, DISSOLVED	UG/L	Metal
7440611	22703		20			URANIUM, NATURAL DISSOLVED	UG/L	Metal
7440611	22705		20			URANIUM, NATURAL SUSPENDED	UG/L	Metal
7440611	22706		20			URANIUM, TOTAL AS U308	UG/L	Metal
7440611	22708		0.020			URANIUM, NATURAL, TOTAL	MG/L	Radiological
7440611	28011		20			URANIUM, NATURAL, TOTAL	UG/L	Radiological
88857	30191		7.0[P]			DINOSEB, WATER, WHOLE RECOVERABLE	UG/L	Pesticide
106934	30203		0.05			ETHANE, 1,2-DIBROMO-, WATER, WHOLE, RECOVERABLE	UG/L	Pesticide
	31501		1.0[a]		1000[b]	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	CFU/100ML	Bacteriological

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
	31505		1.0[a]		1000[b]	COLIFORM, TOTAL, MPN, CONF. TEST 35C (TUBE 31506)	MPN/100ML	
	31506		1.0[a]		1000[b]	COLIFORM, TOTAL, MPN, CONF. TEST, TUBE CONFIG	MPN/100ML	
	31507		1.0[a]		1000[b]	COLIFORM, TOTAL, MPN, COMP. TEST 35C (TUBE 31508)	MPN/100ML	Bacteriological
	31508		1.0[a]		1000[b]	COLIFORM, TOTAL, MPN, COMP. TEST, TUBE CONFIG	MPN/100ML	
	31613				200[c]	FECAL COLIFORM, MEMBRANE FILTER, AGAR	CFU/100ML	Bacteriological
	31614				200[c]	FECAL COLIFORM, MPN, TUBE CONFIGURATION	MPN/100ML	
	31615				200[c]	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	MPN/100ML	Bacteriological
	31616				200[c]	FECAL COLIFORM, MEMBRANE FILTER, BROTH, 44.5C	CFU/100ML	Bacteriological
	31617				200[c]	FECAL COLIFORM, MPN, EIJKMAN, 44.5C (TUBE 31618)	MPN/100ML	
	31625				200[c]	FECAL COLIFORM, MF, M-FC, 0.7 UM	CFU/100ML	Bacteriological
	31648	126[c]				E. COLI	CFU/100ML	Bacteriological
	31649	33[c]		35[c]		ENTEROCOCCI	CFU/100ML	Bacteriological
67663	32003	28900[e]				CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL	UG/L	General Organic
67663	32005	28900[e]				CARBON CHLOROFORM EXTRACTABLES	UG/L	General Organic
67663	32021	28900[e]				CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLES OF	UG/L	General Organic
67663	32022	28900[e]				CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES OF	UG/L	General Organic
75274	32101		100			BROMODICHLOROMETHANE, WHOLE WATER	UG/L	General Organic
56235	32102	35200[e]	5.0	50000[e]		CARBON TETRACHLORIDE, WHOLE WATER	UG/L	General Organic
107062	32103	118000[e]	5.0	113000[e]		1,2-DICHLOROETHANE,WHOLE WATER	UG/L	General Organic
75252	32104		100			BROMOFORM, WHOLE WATER	UG/L	General Organic
124481	32105		100			DIBROMOCHLOROMETHANE, WHOLE WATER	UG/L	General Organic
67663	32106	28900[e]	100			CHLOROFORM, WHOLE WATER	UG/L	General Organic
56235	32260	35.2[e]	0.005	50[e]		CARBON TETRACHLORIDE EXTRACTABLES	MG/L	General Organic
67663	32270	28.9[e]	0.1			CHLOROFORM EXTRACTABLES TOTAL	MG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
108883	34010	17500*	1000	6300*		TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.	UG/L	General Organic
1330207	34020		10000			XYLENES IN WTR SMPLE GC-MS, HEXADECONE EXTR.	UG/L	General Organic
83329	34205	1700*		970*		ACENAPHTHENE	UG/L	General Organic
83329	34206	1700*		970*		ACENAPHTHENE	UG/L	General Organic
83329	34207	1700*		970*		ACENAPHTHENE	UG/L	General Organic
107028	34210	68*		55*		ACROLEIN	UG/L	Pesticide
107028	34211	68*		55*		ACROLEIN	UG/L	Pesticide
107028	34212	68*		55*		ACROLEIN	UG/L	Pesticide
107131	34215	7550*				ACRYLONITRILE	UG/L	General Organic
107131	34216	7550*				ACRYLONITRILE	UG/L	General Organic
107131	34217	7550*				ACRYLONITRILE	UG/L	General Organic
71432	34235	5300*	5.0	5100*		BENZENE	UG/L	General Organic
71432	34236	5300*	5.0	5100*		BENZENE	UG/L	General Organic
92875	34239	2500*				BENZIDINE	UG/L	General Organic
92875	34240	2500*				BENZIDINE	UG/L	General Organic
58899	34265	2.0	0.2	0.16		R-BHC (LINDANE) GAMMA	UG/L	Pesticide
58899	34266	2.0	0.2	0.16		R-BHC (LINDANE) GAMMA	UG/L	Pesticide
75252	34288		100			BROMOFORM, DISSOLVED	UG/L	General Organic
75252	34289		100			BROMOFORM, SUSPENDED	UG/L	General Organic
56235	34297	35200*	5.0	50000*		CARBON TETRACHLORIDE	UG/L	General Organic
56235	34298	35200*	5.0	50000*		CARBON TETRACHLORIDE	UG/L	General Organic
108907	34301		100			CHLOROBENZENE	UG/L	General Organic
108907	34302		100			CHLOROBENZENE	UG/L	General Organic
108907	34303		100			CHLOROBENZENE	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
124481	34306		100			CHLORODIBROMOMETHANE, TOTAL	UG/L	General Organic
124481	34307		100			CHLORODIBROMOMETHANE, DISSOLVED	UG/L	General Organic
124481	34308		100			CHLORODIBROMOMETHANE, SUSPENDED	UG/L	General Organic
67663	34316	28900*	100			CHLOROFORM	UG/L	General Organic
67663	34317	28900*	100			CHLOROFORM	UG/L	General Organic
57125	34325	0.022		0.001		CYANIDE	MG/L	General Inorganic
75274	34328		100			DICHLOROBROMOMETHANE, DISSOLVED	UG/L	General Organic
75274	34329		100			DICHLOROBROMOMETHANE, SUSPENDED	UG/L	General Organic
122667	34346	270*				1,2-DIPHENYLHYDRAZINE	UG/L	General Organic
122667	34347	270*				1,2-DIPHENYLHYDRAZINE	UG/L	General Organic
122667	34348	270*				1,2-DIPHENYLHYDRAZINE	UG/L	General Organic
33213659	34356	0.22		0.034		ENDOSULFAN, BETA	UG/L	Pesticide
33213659	34357	0.22		0.034		ENDOSULFAN, BETA	UG/L	Pesticide
33213659	34358	0.22		0.034		ENDOSULFAN, BETA	UG/L	Pesticide
959988	34361	0.22		0.034		ENDOSULFAN, ALPHA	UG/L	Pesticide
959988	34362	0.22		0.034		ENDOSULFAN, ALPHA	UG/L	Pesticide
959988	34363	0.22		0.034		ENDOSULFAN, ALPHA	UG/L	Pesticide
100414	34371	32000*	700	430*		ETHYLBENZENE	UG/L	General Organic
100414	34372	32000*	700	430*		ETHYLBENZENE	UG/L	General Organic
100414	34373	32000*	700	430*		ETHYLBENZENE	UG/L	General Organic
206440	34376	3980*		40*		FLUORANTHENE	UG/L	General Organic
206440	34377	3980*		40*		FLUORANTHENE	UG/L	General Organic
206440	34378	3980*		40*		FLUORANTHENE	UG/L	General Organic
77474	34386		50P			HEXACHLOROCYCLOPENTADIENE, TOTAL	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
77474	34386	7.0*		7.0*		HEXACHLOROCYCLOPENTADIENE	UG/L	General Organic
77474	34387		50P			HEXACHLOROCYCLOPENTADIENE, DISSOLVED	UG/L	General Organic
77474	34387	7.0*		7.0*		HEXACHLOROCYCLOPENTADIENE	UG/L	General Organic
77474	34388		50P			HEXACHLOROCYCLOPENTADIENE, SUSPENDED	UG/L	General Organic
77474	34388	7.0*		7.0*		HEXACHLOROCYCLOPENTADIENE	UG/L	General Organic
87683	34391	90*		32*		HEXACHLOROBUTADIENE	UG/L	General Organic
87683	34392	90*		32*		HEXACHLOROBUTADIENE	UG/L	General Organic
87683	34393	90*		32*		HEXACHLOROBUTADIENE	UG/L	General Organic
67721	34396	980*		940*		HEXACHLOROETHANE	UG/L	General Organic
67721	34397	980*		940*		HEXACHLOROETHANE	UG/L	General Organic
67721	34398	980*		940*		HEXACHLOROETHANE	UG/L	General Organic
118741	34401		1.0P			HEXACHLOROBENZENE, DISSOLVED	UG/L	General Organic
118741	34401	6.0P				HEXACHLOROBENZENE	UG/L	General Organic
118741	34402		1.0P			HEXACHLOROBENZENE, SUSPENDED	UG/L	General Organic
118741	34402	6.0P				HEXACHLOROBENZENE	UG/L	General Organic
193395	34403		0.40P			IDENO (1,2,3-CD) PYRENE	UG/L	General Organic
193395	34404		0.40P			IDENO (1,2,3-CD) PYRENE	UG/L	General Organic
193395	34405		0.40P			IDENO (1,2,3-CD) PYRENE	UG/L	General Organic
78591	34408	117000*		12900*		ISOPHORONE	UG/L	Pesticide
78591	34409	117000*		12900*		ISOPHORONE	UG/L	Pesticide
78591	34410	117000*		12900*		ISOPHORONE	UG/L	Pesticide
75092	34423		5.0P			METHYLENE CHLORIDE, TOTAL	UG/L	General Organic
75092	34424		5.0P			METHYLENE CHLORIDE, DISSOLVED	UG/L	General Organic
75092	34425		5.0P			METHYLENE CHLORIDE, SUSPENDED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
91203	34443	2300*		2350*		NAPHTHALENE	UG/L	General Organic
91203	34444	2300*		2350*		NAPHTHALENE	UG/L	General Organic
98953	34447	27000		6680*		NITROBENZENE	UG/L	General Organic
98953	34448	27000		6680*		NITROBENZENE	UG/L	General Organic
98953	34449	27000		6680*		NITROBENZENE	UG/L	General Organic
59507	34452	30*				PARACHLOROMETA CRESOL	UG/L	General Organic
59507	34453	30*				PARACHLOROMETA CRESOL	UG/L	General Organic
59507	34454	30*				PARACHLOROMETA CRESOL	UG/L	General Organic
87865	34459	20***	1.0	13		PCP (PENTACHLOROPHENOL)	UG/L	Pesticide
87865	34460	20***	1.0	13		PCP (PENTACHLOROPHENOL)	UG/L	Pesticide
85018	34461	30P		7.7P		PHENANTHRENE	UG/L	General Organic
85018	34462	30P		7.7P		PHENANTHRENE	UG/L	General Organic
85018	34463	30P		7.7P		PHENANTHRENE	UG/L	General Organic
108952	34466	10200*		5800*		PHENOL	UG/L	General Organic
108952	34467	10200*		5800*		PHENOL	UG/L	General Organic
127184	34475	5280*	5.0	10200*		TETRACHLOROETHYLENE	UG/L	General Organic
127184	34476	5280*	5.0	10200*		TETRACHLOROETHYLENE	UG/L	General Organic
127184	34477	5280*	5.0	10200*		TETRACHLOROETHYLENE	UG/L	General Organic
108883	34481	17500*	1000	6300*		TOLUENE	UG/L	General Organic
108883	34482	17500*	1000	6300*		TOLUENE	UG/L	General Organic
79016	34485	45000*	5.0	2000*		TRICHLOROETHYLENE	UG/L	General Organic
79016	34486	45000*	5.0	2000*		TRICHLOROETHYLENE	UG/L	General Organic
75014	34493		2.0			VINYL CHLORIDE	UG/L	General Organic
75014	34494		2.0			VINYL CHLORIDE	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
75354	34501		7.0			1,1-DICHLOROETHYLENE	UG/L	General Organic
75354	34502		7.0			1,1-DICHLOROETHYLENE	UG/L	General Organic
75354	34503		7.0			1,1-DICHLOROETHYLENE	UG/L	General Organic
71556	34506		200	31200*		1,1,1-TRICHLOROETHANE	UG/L	General Organic
71556	34507		200	31200*		1,1,1-TRICHLOROETHANE	UG/L	General Organic
71556	34508		200	31200*		1,1,1-TRICHLOROETHANE	UG/L	General Organic
79005	34511		5.0P			1,1,2-TRICHLOROETHANE, TOTAL	UG/L	General Organic
79005	34512		5.0P			1,1,2-TRICHLOROETHANE, DISSOLVED	UG/L	General Organic
79005	34513		5.0P			1,1,2-TRICHLOROETHANE, SUSPENDED	UG/L	General Organic
107062	34531	118000*	5.0	113000*		1,2-DICHLOROETHANE	UG/L	General Organic
107062	34532	118000*	5.0	113000*		1,2-DICHLOROETHANE	UG/L	General Organic
107062	34533	118000*	5.0	113000*		1,2-DICHLOROETHANE	UG/L	General Organic
95501	34536		600			1,2-DICHLOROBENZENE	UG/L	General Organic
95501	34537		600			1,2-DICHLOROBENZENE	UG/L	General Organic
95501	34538		600			1,2-DICHLOROBENZENE	UG/L	General Organic
78875	34541		5.0			1,2-DICHLOROPROPANE	UG/L	General Organic
78875	34542		5.0			1,2-DICHLOROPROPANE	UG/L	General Organic
78875	34543		5.0			1,2-DICHLOROPROPANE	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		9.0P			1,2,4-TRICHLOROBENZENE, TOTAL	UG/L	General Organic
120821	34552		9.0P			1,2,4-TRICHLOROBENZENE, DISSOLVED	UG/L	General Organic
120821	34553		9.0P			1,2,4-TRICHLOROBENZENE, SUSPENDED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
541731	34566		600			1,3-DICHLOROBENZENE	UG/L	General Organic
541731	34567		600			1,3-DICHLOROBENZENE	UG/L	General Organic
541731	34568		600			1,3-DICHLOROBENZENE	UG/L	General Organic
106467	34571		75			1,4-DICHLOROBENZENE	UG/L	General Organic
106467	34572		75			1,4-DICHLOROBENZENE	UG/L	General Organic
106467	34573		75			1,4-DICHLOROBENZENE	UG/L	General Organic
95578	34586	4380*				2-CHLOROPHENOL	UG/L	General Organic
95578	34587	4380*				2-CHLOROPHENOL	UG/L	General Organic
95578	34588	4380*				2-CHLOROPHENOL	UG/L	General Organic
120832	34601	2020*				2,4-DICHLOROPHENOL	UG/L	General Organic
120832	34602	2020*				2,4-DICHLOROPHENOL	UG/L	General Organic
120832	34603	2020*				2,4-DICHLOROPHENOL	UG/L	General Organic
105679	34606	2120*				2,4-DIMETHYLPHENOL	UG/L	General Organic
105679	34607	2120*				2,4-DIMETHYLPHENOL	UG/L	General Organic
105679	34608	2120*				2,4-DIMETHYLPHENOL	UG/L	General Organic
121142	34611	330*				2,4-DINITROTOLUENE	UG/L	General Organic
121142	34612	330*				2,4-DINITROTOLUENE	UG/L	General Organic
121142	34613	330*				2,4-DINITROTOLUENE	UG/L	General Organic
72548	34651	0.6*		3.6*		P,P'-DDD	UG/L	Pesticide
72548	34652	0.6*		3.6*		P,P'-DDD	UG/L	Pesticide
72559	34653	1050*		14*		P,P'-DDE	UG/L	Pesticide
72559	34654	1050*		14*		P,P'-DDE	UG/L	Pesticide
50293	34655	1.1		0.13		P,P'-DDT	UG/L	Pesticide
50293	34656	1.1		0.13		P,P'-DDT	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
1746016	34675	0.01*	0.00005@			2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD)	UG/L	General Organic
1746016	34676	0.01*	0.00005@			2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD)	UG/L	General Organic
1746016	34677	0.01*	0.00005@			2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD)	UG/L	General Organic
108952	34694	10200*		5800*		PHENOL (C6H5OH) - SINGLE COMPOUND	UG/L	General Organic
91203	34696	2300*		2350*		NAPHTHALENE	UG/L	General Organic
96128	38437		0.2			DIBROMOCHLOROPROPANE, WATER	UG/L	Pesticide
96128	38438		0.2			DIBROMOCHLOROPROPANE, WATER	UG/L	Pesticide
96128	38439		0.2			DIBROMOCHLOROPROPANE WATER	UG/L	Pesticide
96128	38760		0.2			DBCP, WATER	UG/L	Pesticide
96128	38761		0.2			DBCP, WATER	UG/L	Pesticide
96128	38762		0.2			DBCP, WATER	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
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		1.0@			SIMAZINE, COULSON CONDUCTIVITY WATER SAMPLE	UG/L	Pesticide
87865	39032	20***	1.0	13		PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
1912249	39033		3.0			ATRAZINE IN WHOLE WATER SAMPLE	UG/L	Pesticide
118741	39039		1.0[P]			HEXACHLOROBENZENE, WATER SAMPLE ELECTRON CPT	UG/L	Pesticide
118741	39039	6.0[P]				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		1.0[P]			SIMAZINE IN WHOLE WATER	UG/L	Pesticide
117817	39100	400[P]		400[P]		BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	UG/L	General Organic
117817	39103	400[P]		400[P]		BIS(2-ETHYLHEXYL) PHTHALATE, DISSOLVED	UG/L	General Organic
117817	39104	400[P]		400[P]		BIS(2-ETHYLHEXYL) PHTHALATE, SUSPENDED	UG/L	General Organic
	39117	0.940[*]		2.944[*]		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
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

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
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
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	0.20	0.037		ENDRIN IN WHOLE WATER SAMPLE	UG/L	Pesticide
72208	39391	0.18	0.20	0.037		ENDRIN IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
72208	39392	0.18	0.20	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

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
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
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]				HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	UG/L	General Organic
118741	39700		1.0[P]			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[P]			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[P]			ROUNDUP IN WHOLE WATER SAMPLE	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

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
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
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		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+	1300P	2.9		COPPER, FIELD ACIDIFIED-HNO3- LAB FILTER.	UG/L	Metal
7439921	46564	82+	5.0P	220		LEAD, FIELD ACIDIFIED-HNO3-LAB FILTERED	UG/L	Metal
7440224	46566	4.1	50	2.3		SILVER, FIELD ACIDIFIED-HNO3-LAB FILTER.	UG/L	Metal
7440666	46567	120+		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				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
14797650	71855		3.3			NITRITE NITROGEN, TOTAL (AS NO2)	MG/L	Nitrogen
14797650	71856		3.3			NITRITE NITROGEN, DISSOLVED (AS NO2)	MG/L	Nitrogen

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
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+	5.0P	220		LEAD, EXTRACTABLE	UG/L	Metal
7440666	71950	120+		95		ZINC, EXTRACTABLE	UG/L	Metal
7440508	71951	18+	1300P	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
106934	77651		0.05			1,2-DIBROMOETHANE, WHOLE WATER	UG/L	General Organic
95954	77687	100P		240P		2,4,5-TRICHLOROPHENOL, WHOLE WATER	UG/L	General Organic
18540299	78247	16	100	1100		CHROMIUM, HEXAVALENT, TOTAL RECOVERABLE	UG/L	Metal
57125	78248	22		1.0		CYANIDE, TOTAL RECOVERABLE, WATER, WHOLE	UG/L	Metal
14808798	78462		400P			SULFATE, WATER, DISSOLVED AS S	MG/L	Metal
85007	78885		20P			DIQUAT DIBROMIDE (REGLONE) WHOLE WATER SAMPLE	UG/L	Pesticide
7440611	80020		20			URANIUM, DISS. BY EXTRACTION FLUOROMETRIC	UG/L	Radiological
16065831	80357	1700	100			CHROMIUM, TRIVALENT, DISSOLVED	UG/L	Metal
57125	81208	0.022		0.001		CYANIDE,FREE (NOT AMENABLE TO CHLORINATION)	MG/L	General Inorganic
88857	81287		7.0P			DNBP(C10H12N2O5), WHOLE WATER SAMPLE	UG/L	Pesticide
26638197	81327	23000*	5.0*	10300*		DICHLOROPROPANE, WHOLE WATER SAMPLE	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
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+	1300P	2.9		COPPER, INTERSTITIAL WATERFROM SEDIMENTS	UG/L	Metal
7440020	81752	1400+	100P	75		NICKEL, INTERSTITIAL WATER FROM SEDIMENTS	UG/L	Metal
7440666	81754	120+		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+		95		ZINC (ZN) SUSPENDED FRACTION OF WATER	UG/G	Metal
7439921	81936	82+	5.0P	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+	1300P	2.9		COPPER (CU) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440666	81940	120+		95		ZINC (ZN) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440473	81941		100			CHROMIUM (CR) DISSOLVED ANIONIC SPECIES	UG/L	Metal
7440508	81942	18+	1300P	2.9		COPPER (CU) DISSOLVED ANIONIC SPECIES	UG/L	Metal
7440666	81943	120+		95		ZINC (ZN) DISSOLVED ANIONIC SPECIES	UG/L	Metal
	82078				50'	TURBIDITY, FIELD	NTU	Physical
	82079				50'	TURBIDITY, LAB	NTU	Physical
88857	82226		7.0P			2 SECONDARY BUTYL 4,6-DINITROPHENOL	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
16887006	82295	860000				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
57125	82573	0.022		0.001		CYANIDE/CHLORINATION IN WATER	MG/L	General Inorganic
23135220	82613		200[P]			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).
[P]Proposed Criterion.
[-]Rule of thumb criterion used by the NPS Air Quality Division for determining sensitivity to acid deposition.
[^]EPA geometric mean criterion based on at least 5 samples equally spaced over a 30-day period.
[#]EPA freshwater aquatic life chronic criterion.
[!]Arizona state standard.
[=]Total coliform drinking water maximum contaminant level (1 cfu/100ml or 1 mpn/100ml) was not used in water quality criteria comparisons.
[b]California and Florida state bathing water standards.

For detailed summaries of each parameter, refer to the EPA's Quality Criteria for Water 1986 and its two updates.

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

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-ENDOMED,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
00969	CHRYSOTILE ASBESTOS FIBERS/LITER	1332214
00973	AMPHIBOLE ASBESTOS FIBERS/LITER	1332214

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
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
01041	COPPER, SUSPENDED (UG/L AS CU)	7440508
01042	COPPER, TOTAL (UG/L AS CU)	7440508
01049	LEAD, DISSOLVED (UG/L AS PB)	7439921

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
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
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

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
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
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

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
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
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

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
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
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

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
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
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

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
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
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

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
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
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

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
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
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

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
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
34501	1,1-DICHLOROETHYLENE, TOTAL (UG/L)	75354
34502	1,1-DICHLOROETHYLENE, DISSOLVED (UG/L)	75354
34503	1,1-DICHLOROETHYLENE, SUSPENDED (UG/L)	75354
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
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (UG/L)	79345
34517	1,1,2,2-TETRACHLOROETHANE, DISSOLVED (UG/L)	79345
34517	1,1,2,2-TETRACHLOROETHANE, DISSOLVED (UG/L)	79345
34518	1,1,2,2-TETRACHLOROETHANE, SUSPENDED (UG/L)	79345
34518	1,1,2,2-TETRACHLOROETHANE, SUSPENDED (UG/L)	79345

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
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
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

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
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
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

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
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
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

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
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
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

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
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
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

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
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
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

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
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
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

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
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
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

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
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
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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