Baseline Water Quality Data

Inventory and Analysis

Apostle Islands National Lakeshore



Water Resources Division and Servicewide Inventory and Monitoring Program

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

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BASELINE WATER QUALITY DATA

INVENTORY AND ANALYSIS

APOSTLE ISLANDS NATIONAL LAKESHORE

National Park Service
Water Resources Division
Fort Collins, CO 80525

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EXECUTIVE SUMMARY

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

The results of the retrievals for the study area from the IFD, DRINKS, GAGES, and DAMS databases located six industrial/municipal dischargers; no drinking water intakes; one active and one inactive (since 1984) U. S. Geological Survey (USGS) stream gage; and no water impoundments. The results of the STORET retrieval for the study area yielded 20,681 observations for 479 separate parameters collected by the NPS, USGS, EPA, and Wisconsin Department of Natural Resources (WDNR) at 222 monitoring stations from 1968 through 1996. Of the 222 monitoring stations, 44 stations were located within the park boundaries (see Station Period of Record Tabulation). Ten WDNR stations within the study area (none within the park boundaries) were established but contained no data.

Most of the monitoring stations represent either one-time or intensive single-year sampling efforts by the collecting agencies. Fourteen stations within the study area (none within the park boundaries) yielded longer-term records consisting of multiple observations for several important water quality parameters (see Station Period of Record Tabulation). The stations yielding the longest-term records within the study area, but outside of the park boundaries, are: (1) Lake Superior at Bayfield (APIS 0176); (2) Lake Superior 13 Grid 1311 (APIS 0012); (3) Lake Superior 15 Grid 1509 (APIS 0163); (4) Sand River near Red Cliff (APIS 0191); (5) Lake Superior 14 Grid 1410 (APIS 0065); (6) Lake Superior 12 Grid 1209 (APIS 0143); and (7) Lake Superior 12 Grid 1211 (APIS 0011)[†].

Screening criteria consisting of published EPA water-quality criteria and instantaneous concentration values selected by the WRD were used to identify potential water quality problems within the study area. While the criteria represent important threshold concentrations of pollutants, it is important to remember that criteria may have been exceeded due to any number of natural or anthropogenic factors, including errors in field, laboratory, and/or recording procedures. The reader is advised to read the Introduction for additional caveats in interpreting the exceeded criteria in this report. The results of the APIS water quality criteria screen found six groups of parameters that exceeded screening criteria at least once within the study area. Dissolved oxygen, pH, and copper exceeded their respective EPA criteria for the protection of freshwater aquatic life. Fecal-indicator bacteria concentrations (fecal coliform) and turbidity exceeded the WRD screening limits for freshwater bathing and aquatic life, respectively. Alkalinity was below the threshold used by the NPS Air Resources Division for determining potential sensitivity to acid deposition (buffering capacity).

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

Dissolved oxygen concentrations were measured 715 times at 105 monitoring stations from 1968 through 1996. Thirty-three observations at nine monitoring stations within the park, at Stockton Island (APIS 0030, APIS 0037, APIS 0039, APIS 0042, APIS 0070), a Michigan Island Lagoon (APIS 0027, APIS 0028, APIS 0029), and an Outer Island Lagoon (APIS 0013), were less than or equal to the 4 milligrams per liter (mg/L) EPA criterion for the protection of freshwater aquatic life from 1980 through 1996. Eighteen of these 33 observations were reported in a lagoon in the southeast part of Stockton Island (APIS 0039) during the summer of 1996.

The pH was measured 648 times at 119 monitoring stations from 1968 through 1996. One-hundred-twelve observations at 35 monitoring stations were outside the pH range of 6.5 to 9.0 standard units (SU) (EPA chronic criteria for freshwater aquatic life) from 1980 through 1996. All of these 112 observations were less than or equal to a pH of 6.5 SU. One-hundred-eleven of the 112 observations were reported from 34 stations within the park from 1980 through 1996. The lowest pH of 4.5 SU was reported outside the park in Perch Lake (APIS 0212) in November 1984.

Turbidity was measured 475 times at 25 monitoring stations from 1968 through 1996. Three observations, ranging from 53.3 Nephelometric Turbidity Units (NTU) to 58 NTU in Lake Superior approximately one mile southwest of Sand Island (APIS 0203), exceeded the WRD screening criterion of 50 Jackson Candle/Formazin/Nephelometric Turbidity Units in July 1996.

Fecal coliform concentrations were measured 408 times at 36 monitoring stations from 1971 through 1988. Three concentrations, ranging from 244 Colony Forming Units per 100 milliliters (CFU/100 ml) to 320 CFU/100 ml at two monitoring stations in Lake Superior, Presque Isle Harbor at Stockton Island (APIS 0036) and outside Chequamegon Bay north of Long Island (APIS 0161), exceeded the WRD bathing water screening criterion of 200 Colony Forming Units/Most Probable Number per 100 milliliters during 1986 and 1987. The highest concentration of 320 CFU/100 ml was reported outside Chequamegon Bay north of Long Island (APIS 0161) in June 1987.

Total alkalinity was determined by low-level (less than 10 mg/L as $CaCO_3$) gran analysis once in Perch Lake (APIS 0212) in November 1984. The one observation of -36.7 microequivalents per liter (µeq/L) was below the NPS Air Resources Division's 200 µeq/L threshold, indicating sensitivity to acid deposition.

Copper concentrations (including dissolved, suspended, and total) were measured 33 times at eight monitoring stations from 1971 through 1993. Four concentrations, ranging from 18 micrograms per liter (µg/L) to 22 µg/L at two monitoring stations in Lake Superior, west of Outer Island (APIS 0061) and west of Sand Island (APIS 0208), equaled or exceeded the acute freshwater criterion of 18 µg/L during 1971. The highest concentration of 22 µg/L was reported in Lake Superior west of Sand Island (APIS 0208) in October 1971.

The IDEA conducted for APIS indicates that STORET data exist for all 13 Level I parameter groups in the study area. For the groups Alkalinity, Flow, and Toxic Elements, less than 22 percent of the observations were recorded since 1985. Overall, 48 percent of the observations for Level I parameter groups were recorded since 1985. Data for ten groups (Alkalinity, Dissolved Oxygen, Flow, Clarity/Turbidity, Nitrate/Nitrogen, Phosphate/Phosphorus, Chlorophyll, Sulfates/Total Dissolved Solids/Hardness, Bacteria, and Toxic Elements) were recorded at less than half of the 212 monitoring stations with data. Relative to other parameter groups, data were limited for the groups Alkalinity, Flow, Chlorophyll, and Sulfates/Total Dissolved Solids/Hardness. Results for 27 of the 126 EPA priority toxic pollutants (consisting of organic parameters, metals, pesticides, and PCB's) were retrieved from STORET. Of the 212 monitoring stations with data, 15 stations monitored by the NPS measured only bacteriological parameters and five stations monitored by WDNR measured only fish tissue samples.

Surface water resources in the APIS study area include Lake Superior; Presque Isle, Sand, Big, and numerous other bays; Sand, Raspberry, Siskiwit, and other rivers; Red Cliff, Pikes, and other perennial and intermittent creeks; Siskiwit, Perch, and many other smaller lakes, ponds, and lagoons. Based on the data inventories and analyses contained in this report, surface water resources within the study area appear to be generally of good quality with some impact from natural and human activities. Potential natural sources of contaminants include

erosion from spring runoff. Potential anthropogenic sources of contaminants include municipal and industrial wastewater discharges; quarrying operations; agricultural and silvicultural operations; marine water traffic; atmospheric deposition; and recreational use.

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INTRODUCTION

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

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

Goal

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

Purpose

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

Objectives

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

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

2. Develop a complete inventory of all retrieved data;

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

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

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

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

Document Overview

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

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

Caveats

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

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

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

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

Key Personnel

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

National Park Service, Water Resources Division:

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

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

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

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

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

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

Elizabeth Eisenhauer, Dawn Grandbois, Bill Folsom, Dana Griffin, and Scott Ratchford provided digital cartographic support, both in determining retrieval/query areas and producing maps and graphics.

Kelli O'Connor, J. Chris Echohawk, Curtis Cooper, Adam Henson, Shawndra Mawhorter, Lisa Smith, Ryan Shy, Lisa Dummer, Eric Lord, Adriane Petersen, Margaret Matter, Richard Henderson, Ronda Burns, and Aria Brissette uploaded water quality data to STORET prior to report preparation.

Jacquie Nolan designed the cover.

Horizon Systems:

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

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

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

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

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

Other National Park Service:

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

METHODOLOGY

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

Delineation of Park Study Area

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

Data Sources

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

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

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

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

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

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

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

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

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

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

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

Data Retrieval and Analysis Procedures

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

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

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

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

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

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

Park Unit Databases

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

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

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

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

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

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

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

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

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

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

Screening Methodologies and Procedures

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

STORET Edit Criteria

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

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

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

Date Screen

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

Station Type Screen

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

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

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

Phase 0 Parameter Screen

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

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

Phase 1 Parameter Screen

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

Media Type Screen

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

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

Remark Code Screen

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

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

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

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

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

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

Composite Type Screen

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

Table D. Possible STORET Composite Type Codes

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

Phase 2 Parameter Screen

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

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

Observations/Period of Record Screen

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

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

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

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

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

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

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

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

Statistical Definitions

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

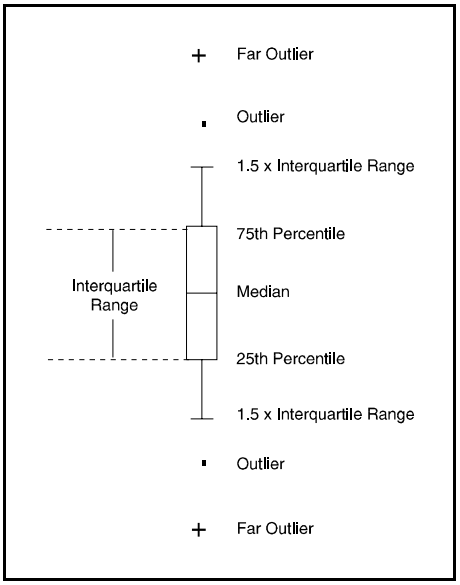
Table H. Definition of Descriptive Statistics Contained in Inventory, Annual, and Seasonal Tables

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

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

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

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



INTERPRETIVE GUIDE

TO WATER QUALITY RESULTS

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

Overview

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

Regional Location Map

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

Water Quality Monitoring Locations Map(s)

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

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

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

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

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

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

Representative Mean Annual Hydrograph for Seasonal Analysis

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

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

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

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

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

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

Contacts for Agency Codes Retrieved

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

Quantity of Data Retrieved by Agency Code

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

Station Period of Record Tabulation

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

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

Parameter Period of Record Tabulation

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

Station/Parameter Period of Record Tabulation

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

Station-By-Station Results

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

Station Inventory for Station

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

Parameter Inventory for Station

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

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

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

EPA Water Quality Criteria Analysis for Station

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

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

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

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

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

Time Series Plots for Station

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

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

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

Annual Analysis for Station

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

Annual Box-and-Whiskers Plots for Station

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

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

Seasonal Analysis for Station

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

Seasonal Box-and-Whiskers Plots for Station

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

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

EPA Water Quality Criteria Analysis for Entire Park Study Area

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

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

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

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

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

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

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

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

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

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

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

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

Water Quality Observations Outside STORET Edit Criteria for Park

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

WATER QUALITY RESULTS

OVERVIEW FOR APIS

Study Area Boundary Description

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

	Study Area	Park
GIS Estimated Acreage:	598944	41803
# STORET Stations:	222	44
# Stations With No Data:	10	0
# Stations With No Stat. Analysis:	0	0
# Longer Term Stations:	14	0
Date of STORET Retrieval:	10/21/98	10/21/98
Period of Record:	08/26/68-08/21/96	08/06/80-08/20/96
# Parameters Measured:	479	47
# Water Quality Observations:	20681	1649
# Industrial/Municipal Facilities:	6	6
# Drinking Water Intakes:	0	0
# Water Gages:	2	2
# Water Impoundments:	0	0
# Total Plots:	97	0
# Time Series:	43	0
# Annual:	5	0
# Seasonal:	49	0

Hydrologic Definition of Seasons:

1. July 15 - November 30
2. December 1 - February 29
3. March 1 - April 14
4. April 15 - July 14

Time Series Plot Criteria:

To be included in the time series plots, a station/parameter combination must have at least 6 years and at least 16 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.

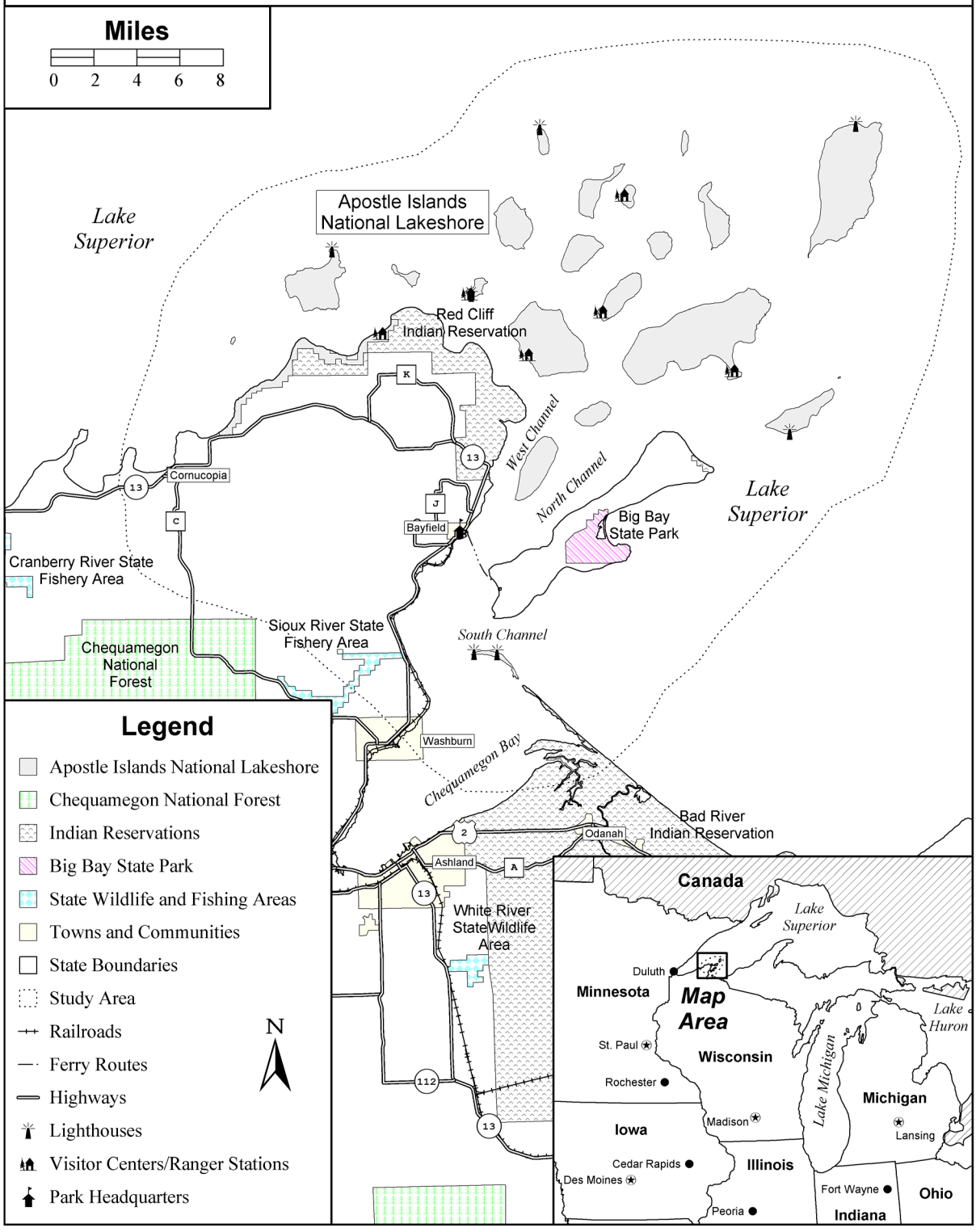
Seasonal Analysis Criteria:

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 8 years and observations in at least 4 of the 8 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.

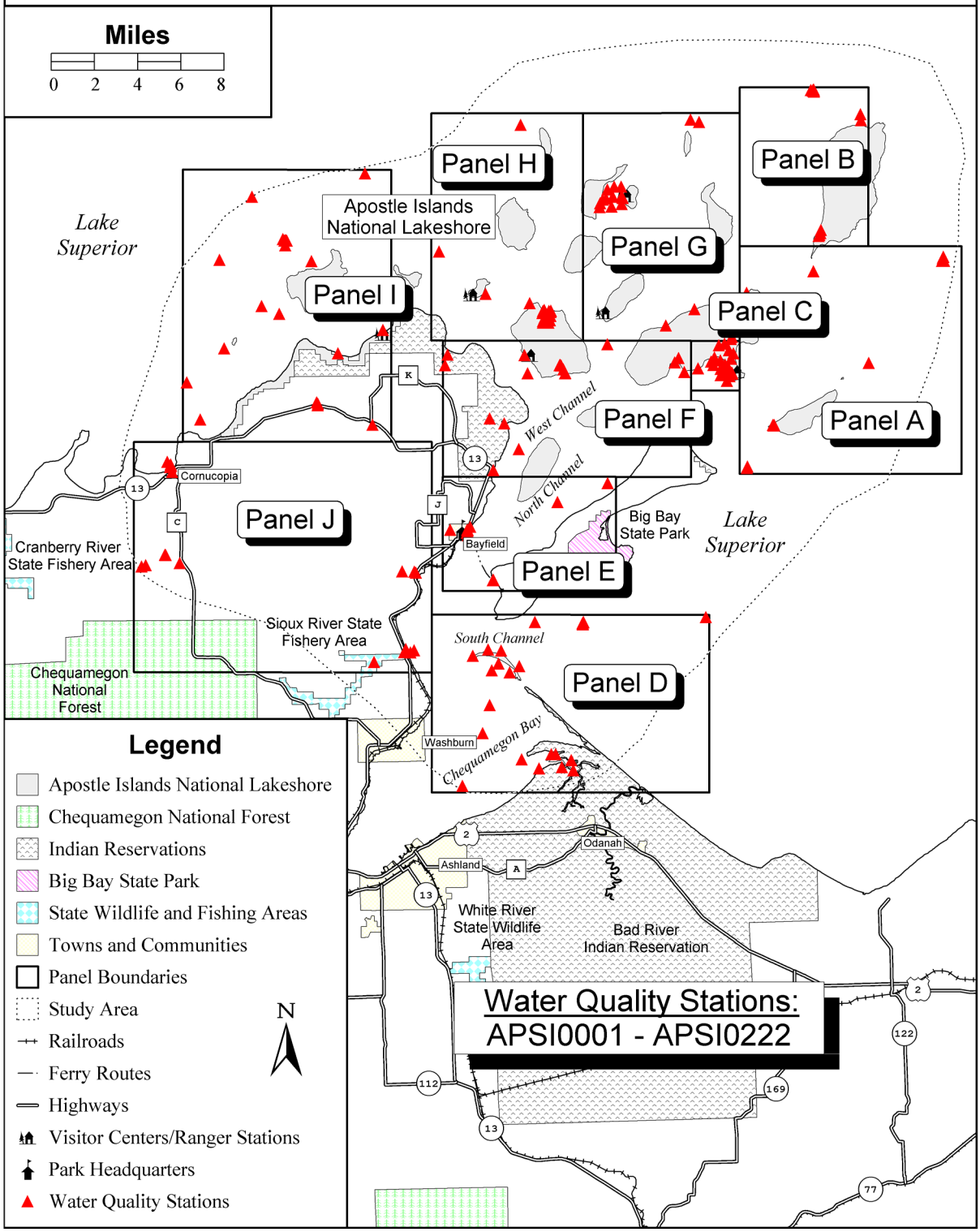
Apostle Islands National Lakeshore

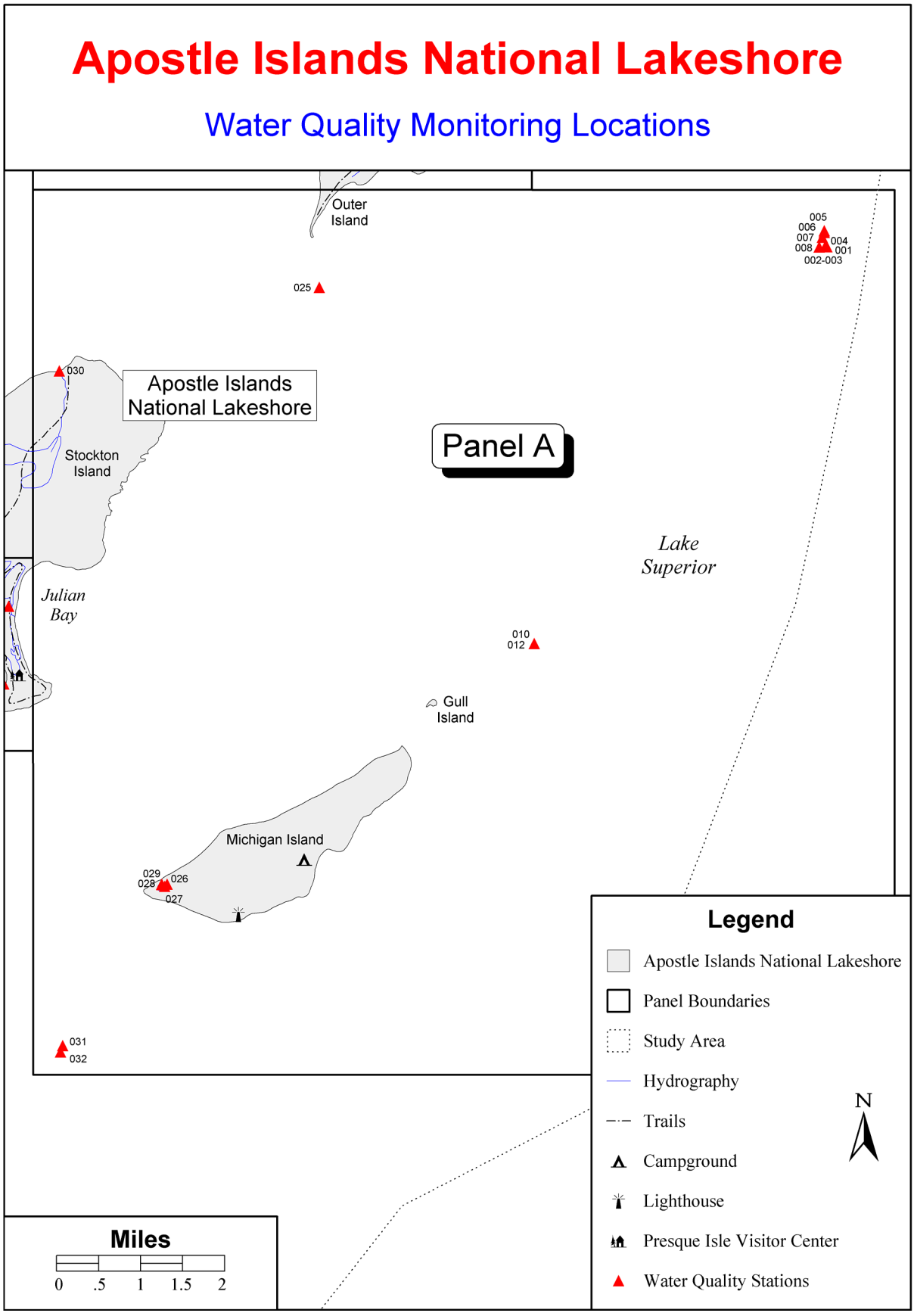
Regional Location Map



Apostle Islands National Lakeshore

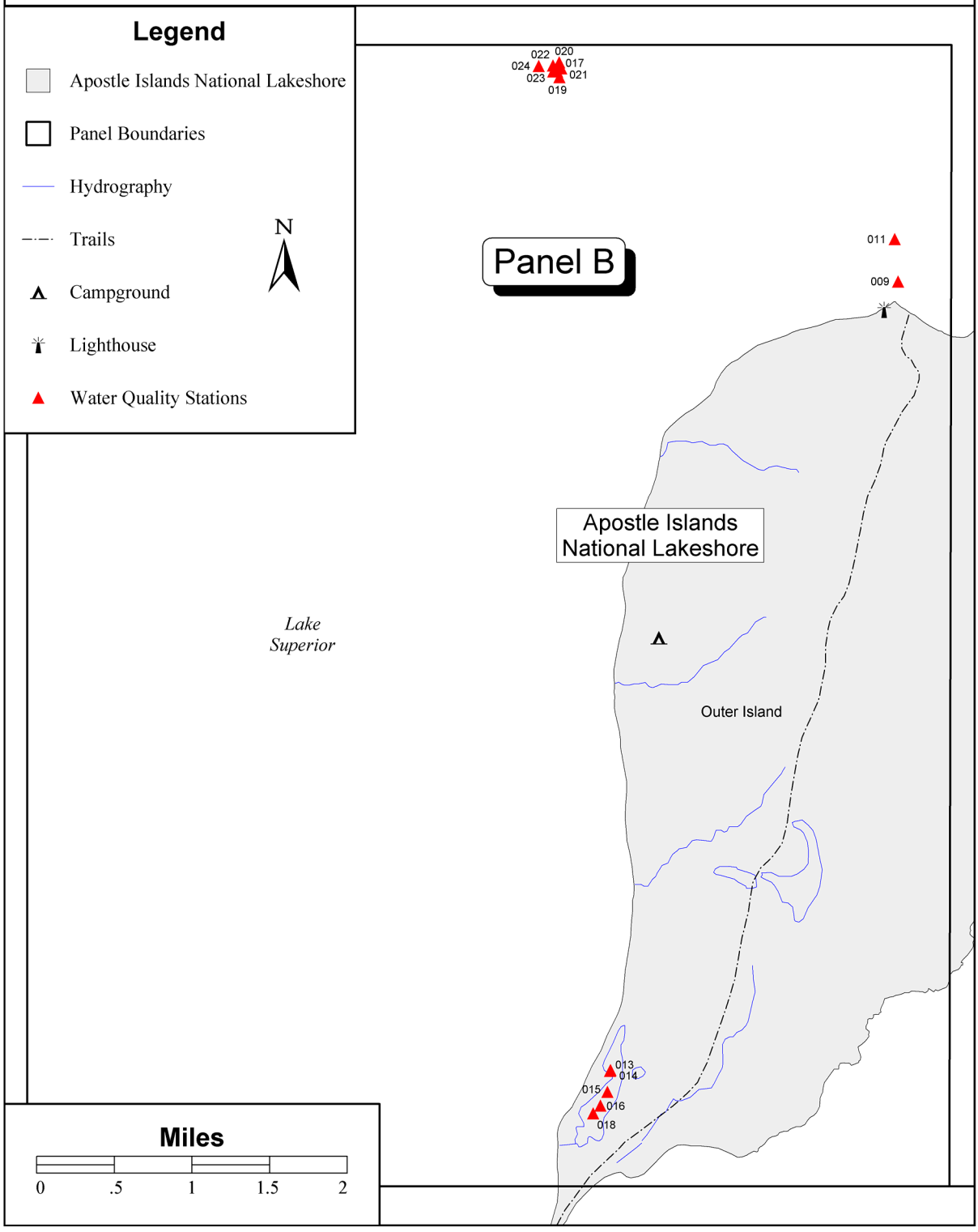
Water Quality Monitoring Locations




Apostle Islands National Lakeshore
Water Quality Monitoring Locations
Outer Island
005
006
007
008
004
001
002-003
025
030
Apostle Islands National Lakeshore
Stockton Island
Panel A
Lake Superior
Julian Bay
010
012
Gull Island
Michigan Island
029
028
026
027
031
032
Legend
Apostle Islands National Lakeshore
Panel Boundaries
Study Area
Hydrography
Trails
Campground
Lighthouse
Presque Isle Visitor Center
Water Quality Stations
N
Miles
0 .5 1 1.5 2

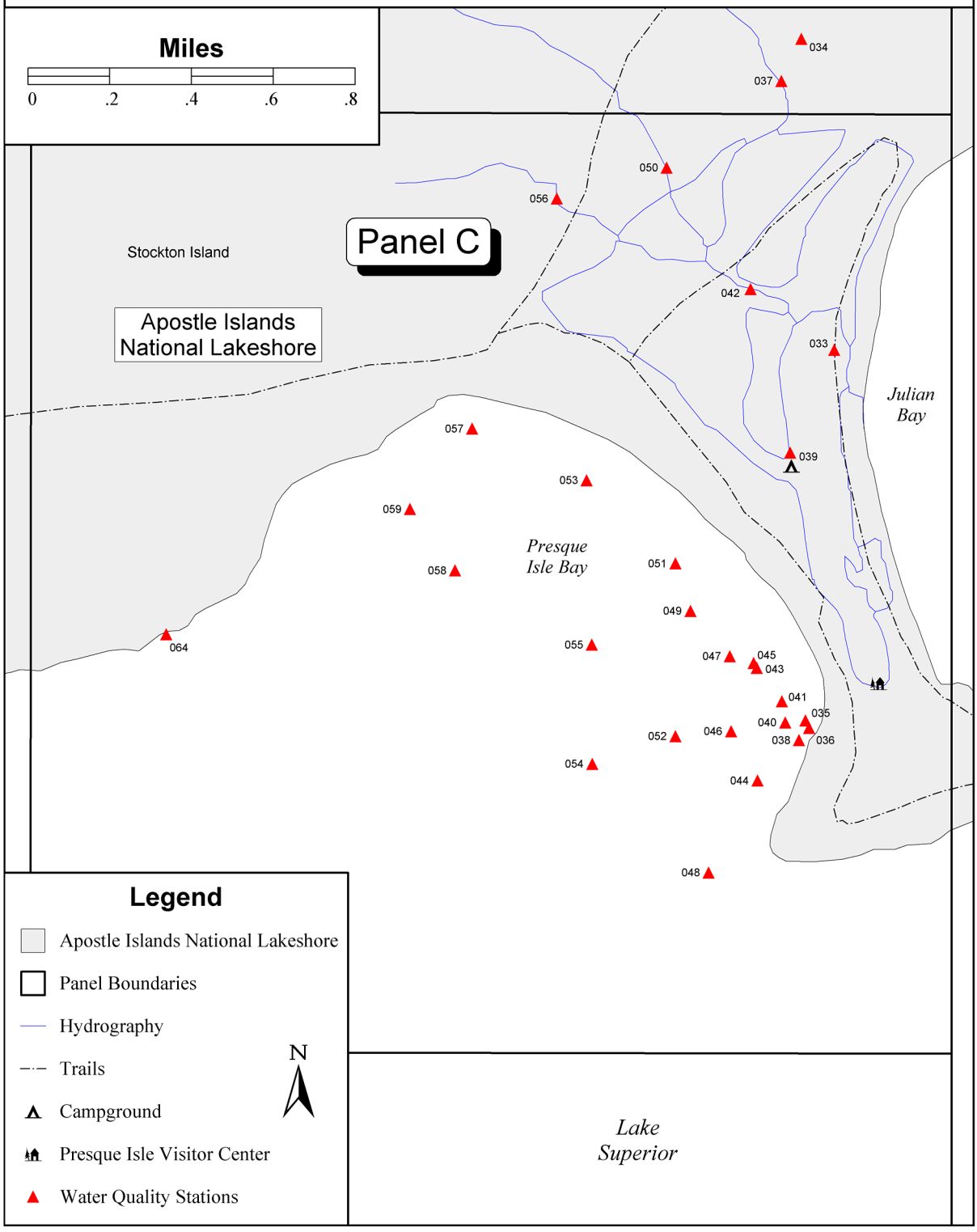
Apostle Islands National Lakeshore

Water Quality Monitoring Locations



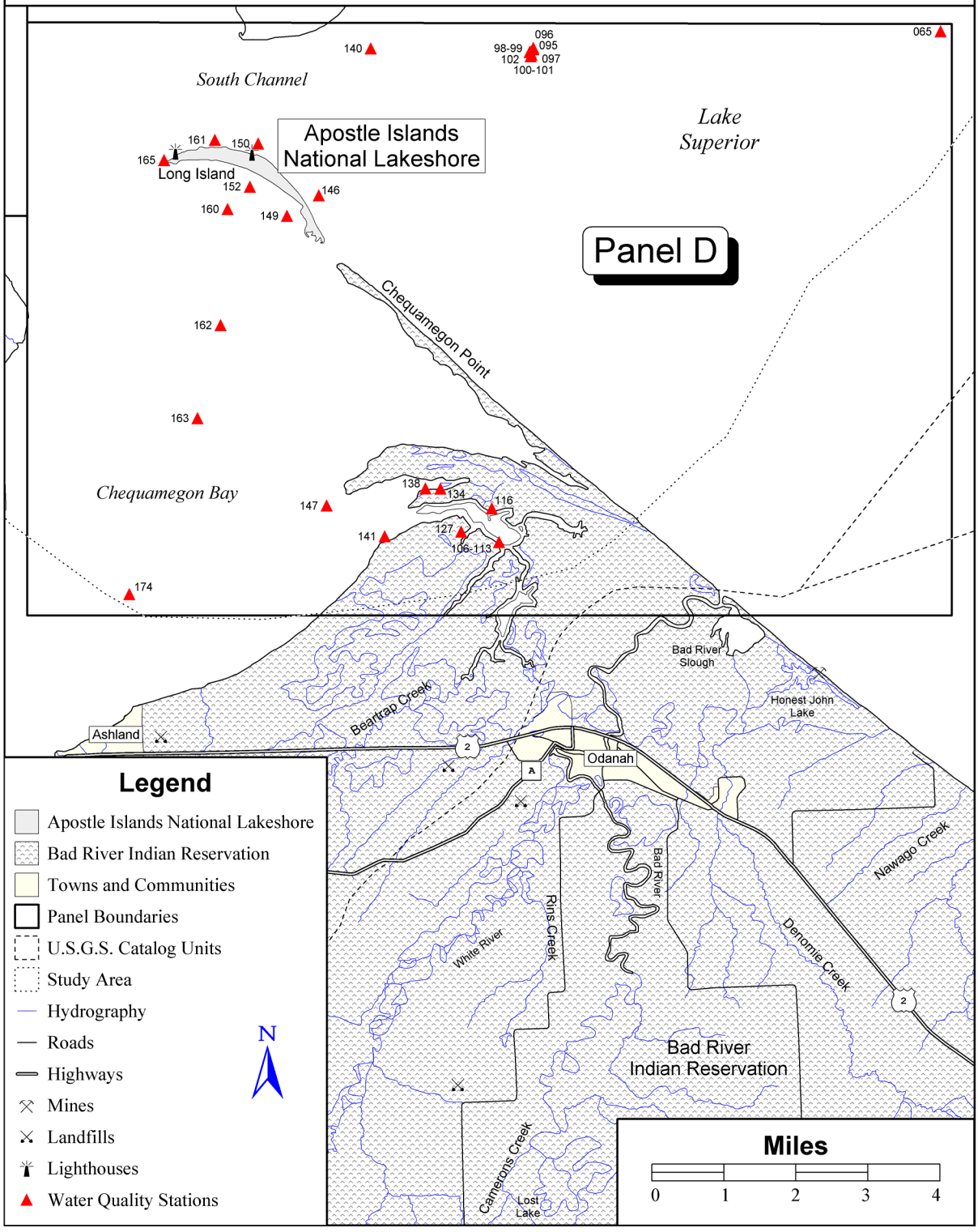
Apostle Islands National Lakeshore

Water Quality Monitoring Locations



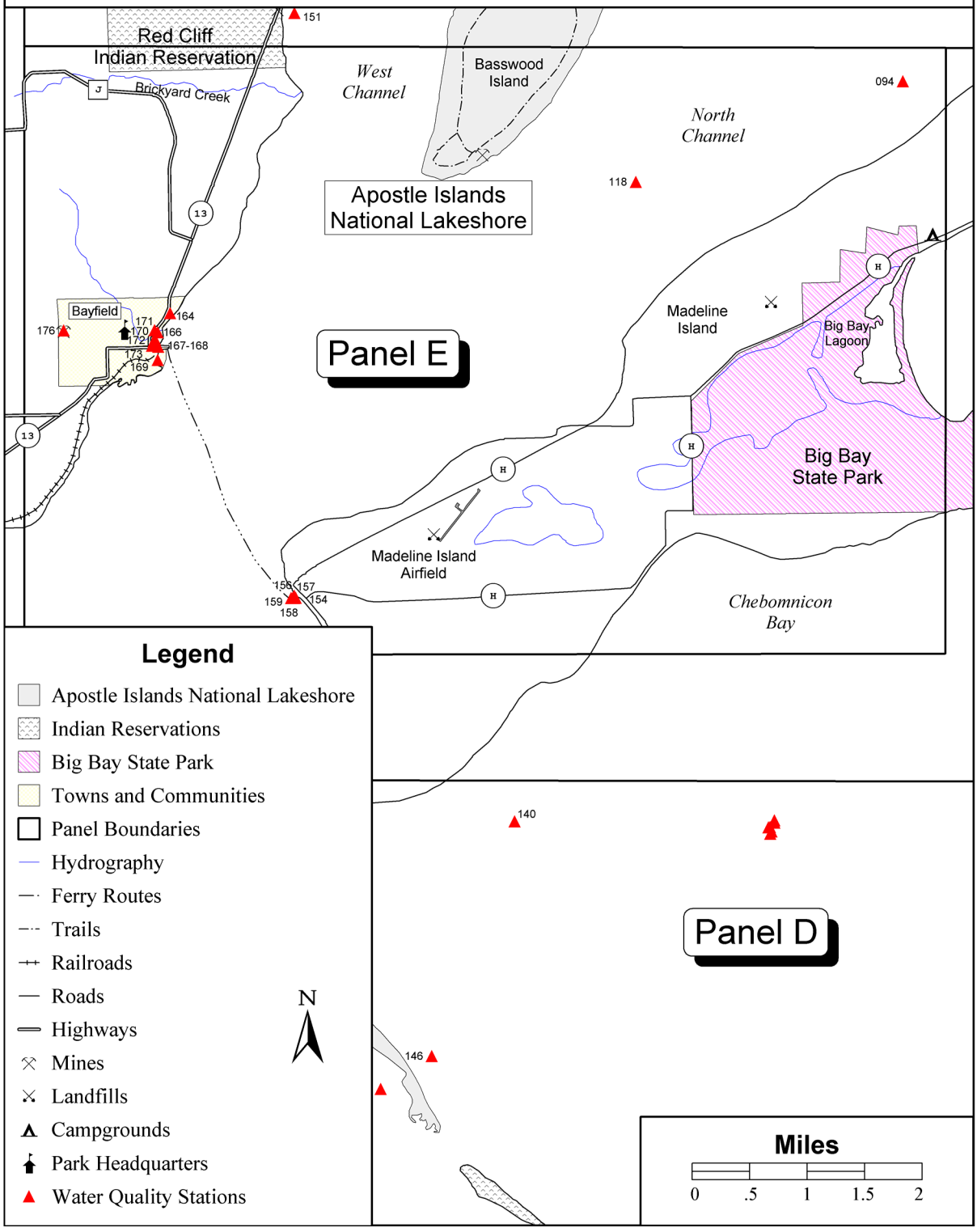
Apostle Islands National Lakeshore

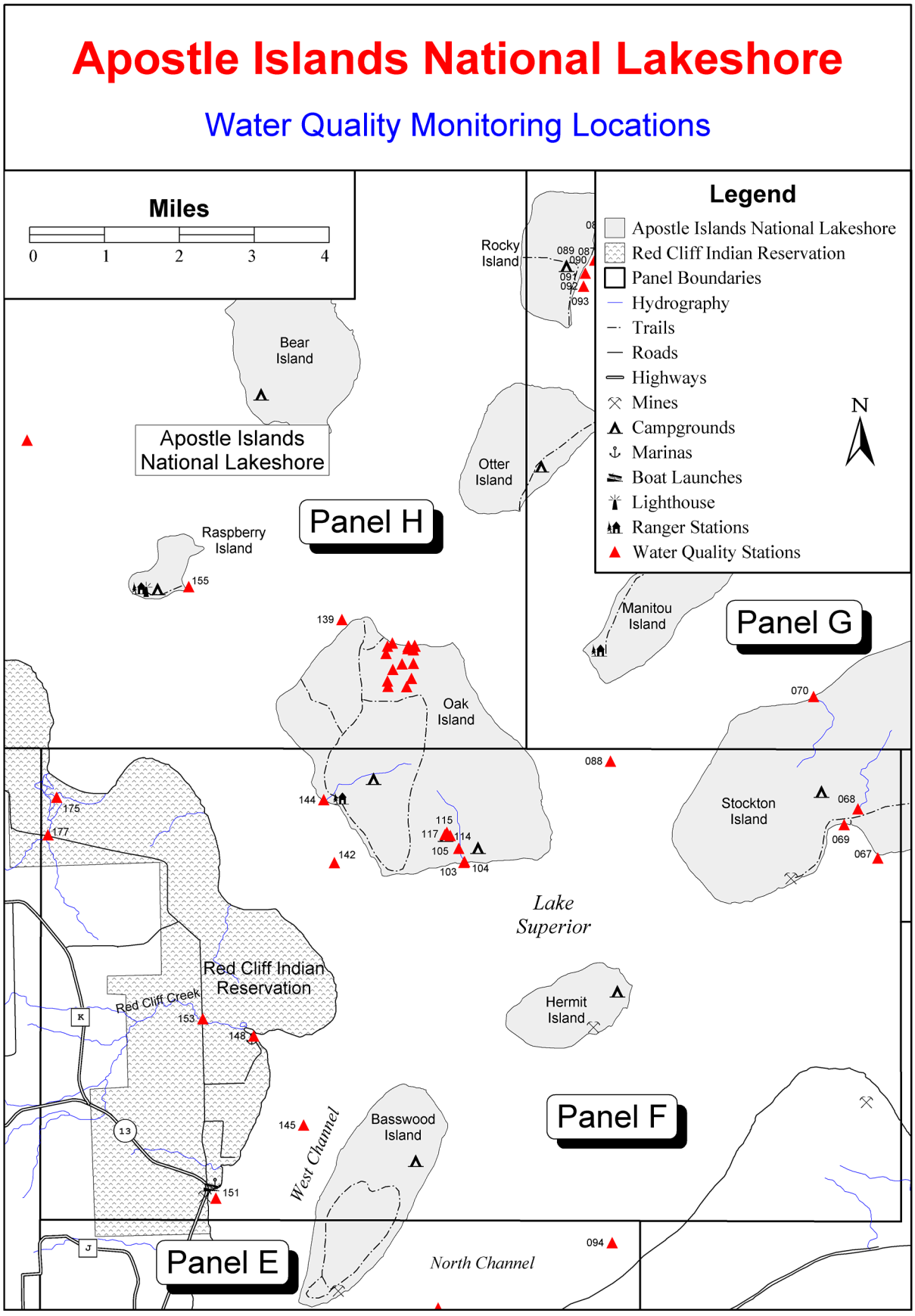
Water Quality Monitoring Locations



Apostle Islands National Lakeshore

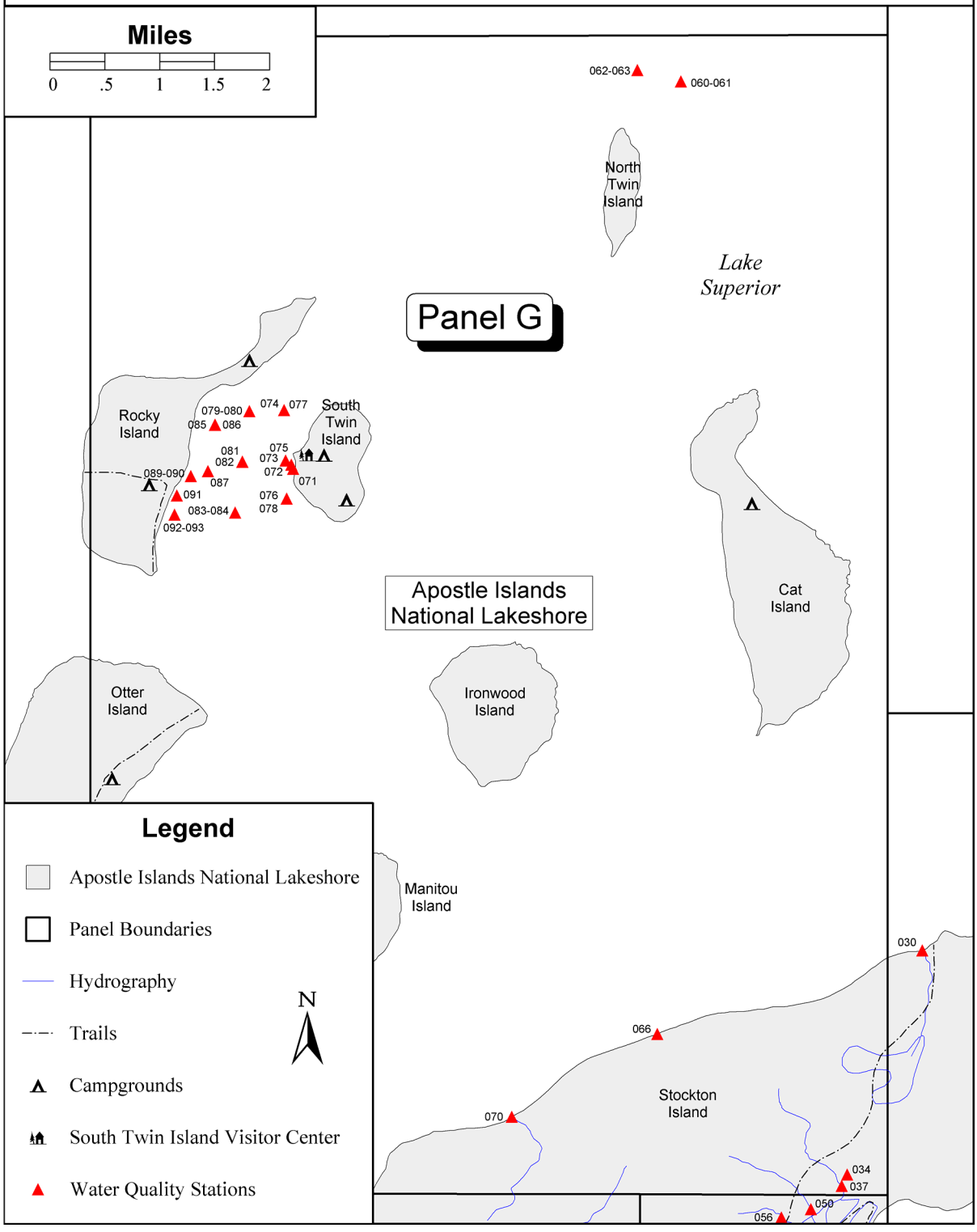
Water Quality Monitoring Locations

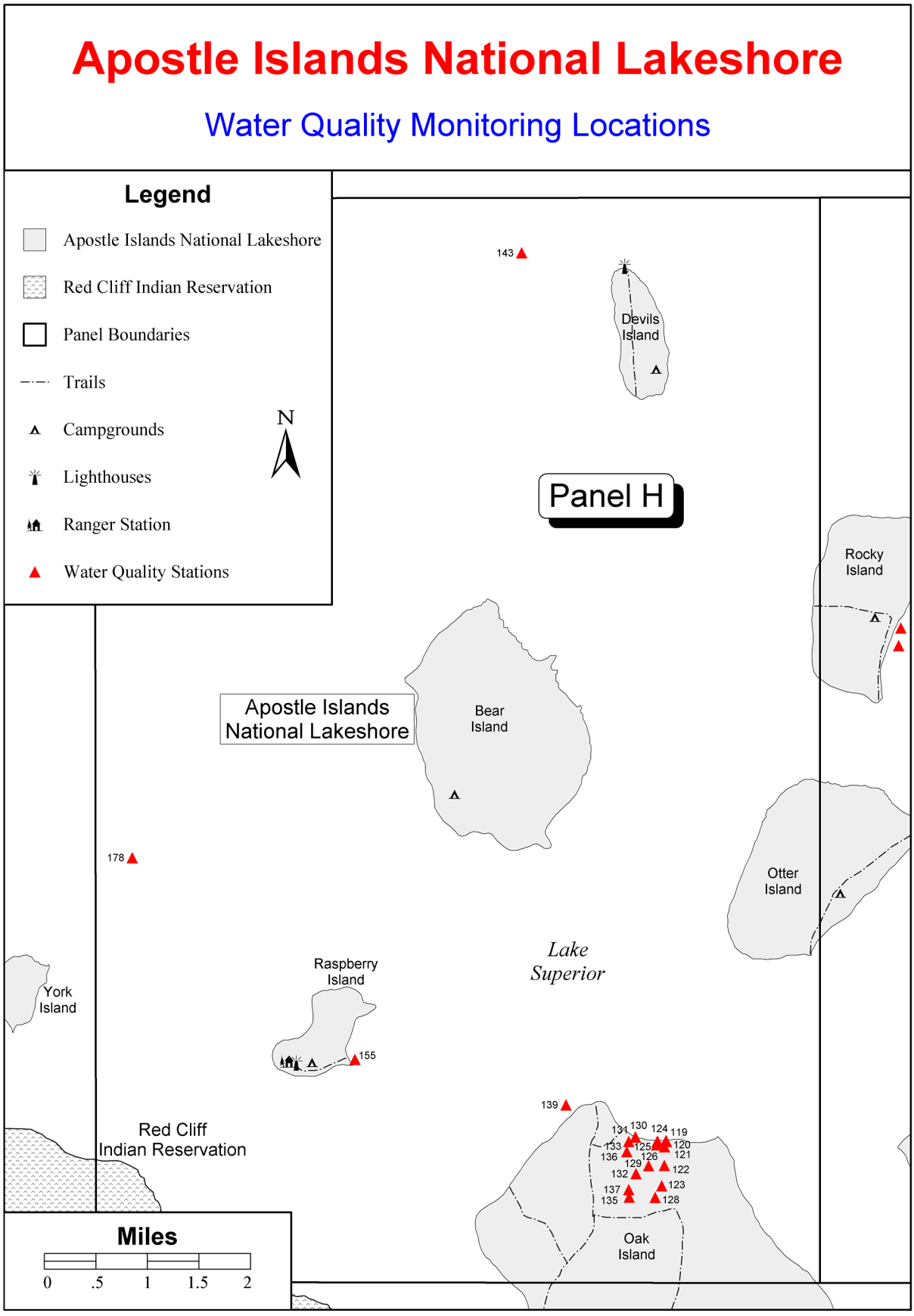



Apostle Islands National Lakeshore
Water Quality Monitoring Locations
Miles
0
1
2
3
4
Legend
Apostle Islands National Lakeshore
Red Cliff Indian Reservation
Panel Boundaries
Hydrography
Trails
Roads
Highways
Mines
Campgrounds
Marinas
Boat Launches
Lighthouse
Ranger Stations
Water Quality Stations
N
Rocky Island
Bear Island
Apostle Islands National Lakeshore
Otter Island
Raspberry Island
Panel H
Manitou Island
Panel G
Oak Island
Stockton Island
Lake Superior
Red Cliff Indian Reservation
Red Cliff Creek
Hermit Island
Basswood Island
West Channel
Panel F
Panel E
North Channel
K
J
13
155
139
144
142
115
117
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103
104
175
177
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148
145
151
088
070
068
069
067
094

Apostle Islands National Lakeshore

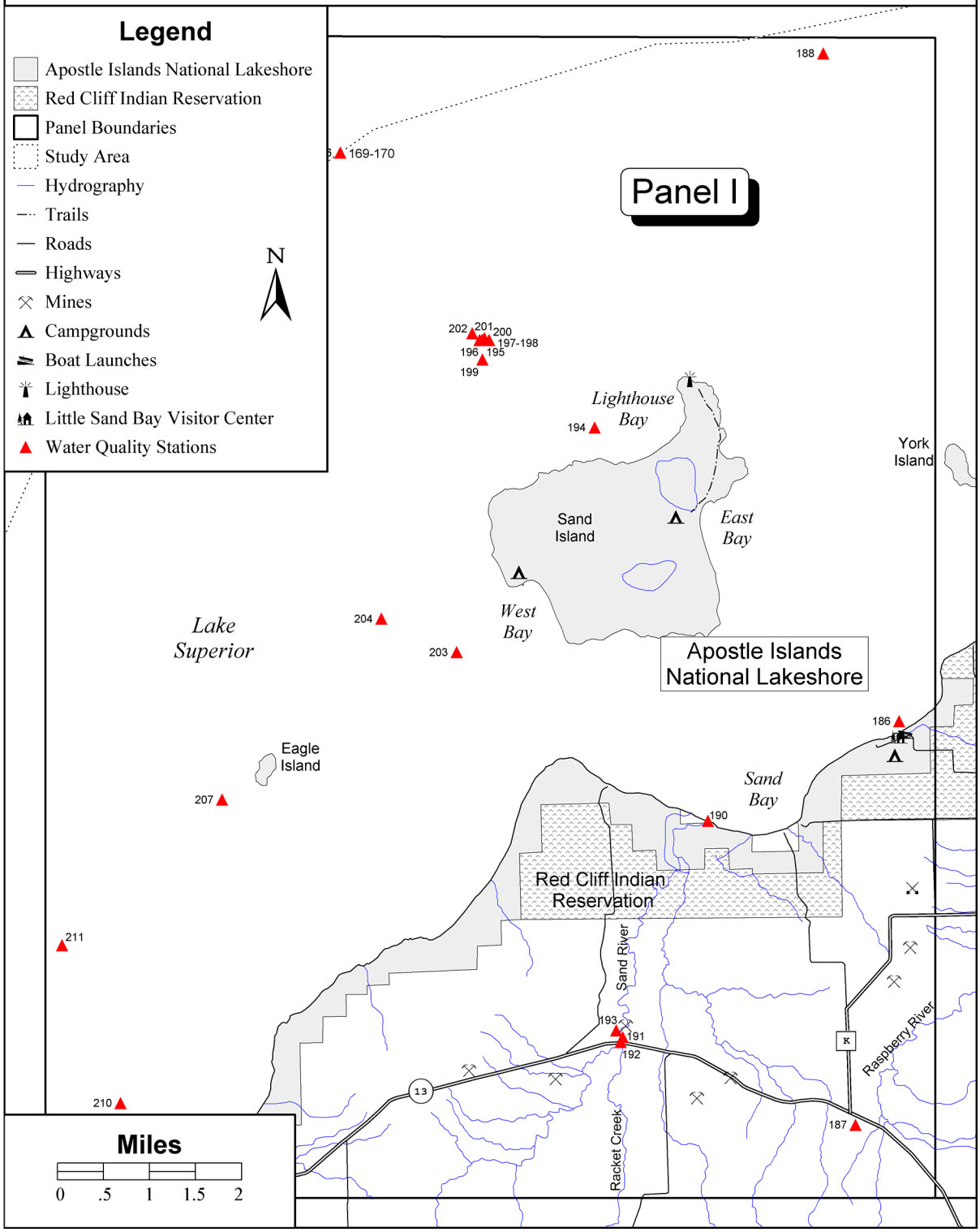
Water Quality Monitoring Locations




Apostle Islands National Lakeshore
Water Quality Monitoring Locations
Legend
Apostle Islands National Lakeshore
Red Cliff Indian Reservation
Panel Boundaries
Trails
Campgrounds
Lighthouses
Ranger Station
Water Quality Stations
N
Panel H
143
Devils Island
Rocky Island
Apostle Islands National Lakeshore
Bear Island
178
Otter Island
Lake Superior
Raspberry Island
York Island
155
139
131
130
124
119
133
125
120
136
126
121
129
122
132
123
137
135
128
Oak Island
Red Cliff Indian Reservation
Miles
0
.5
1
1.5
2

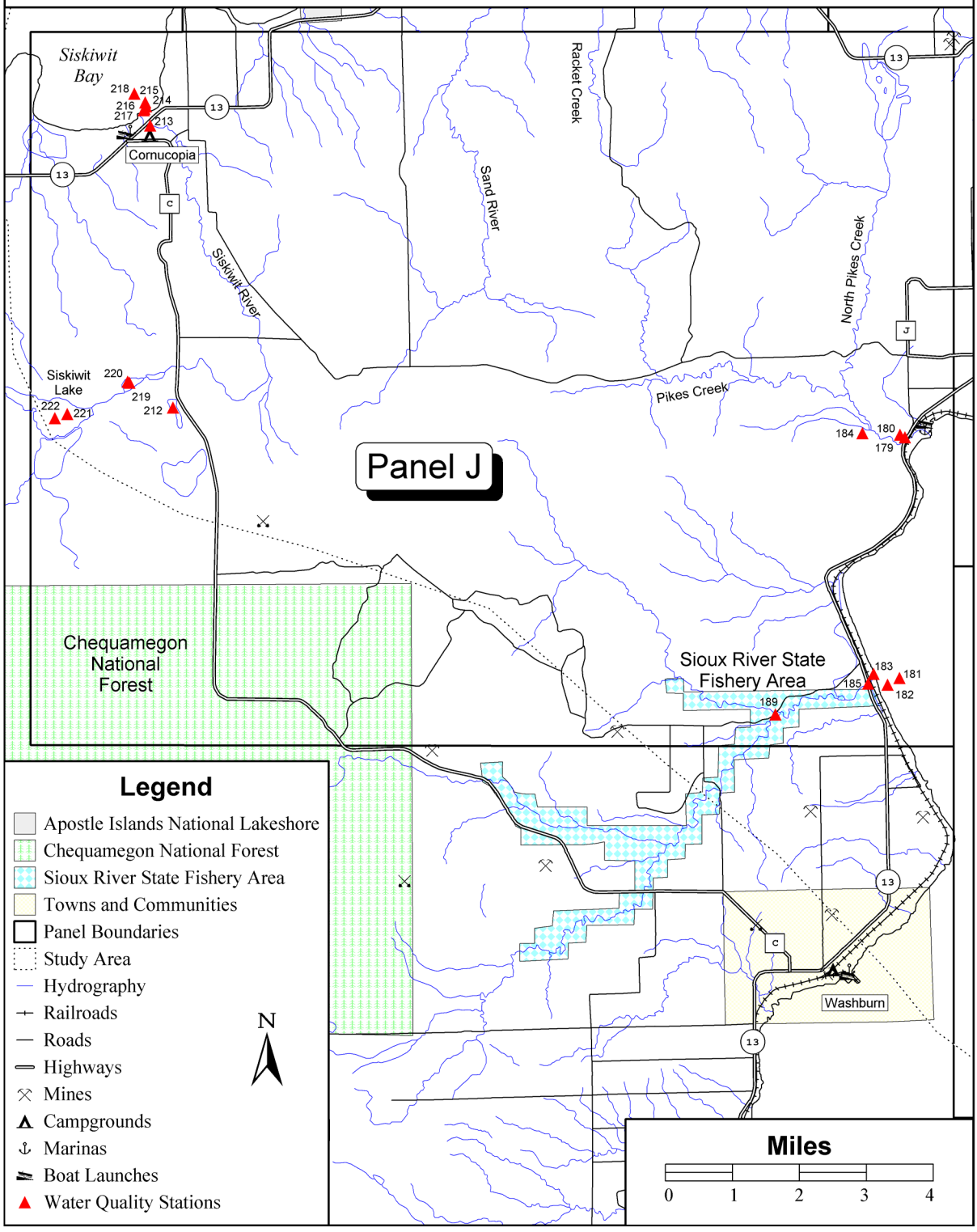
Apostle Islands National Lakeshore

Water Quality Monitoring Locations



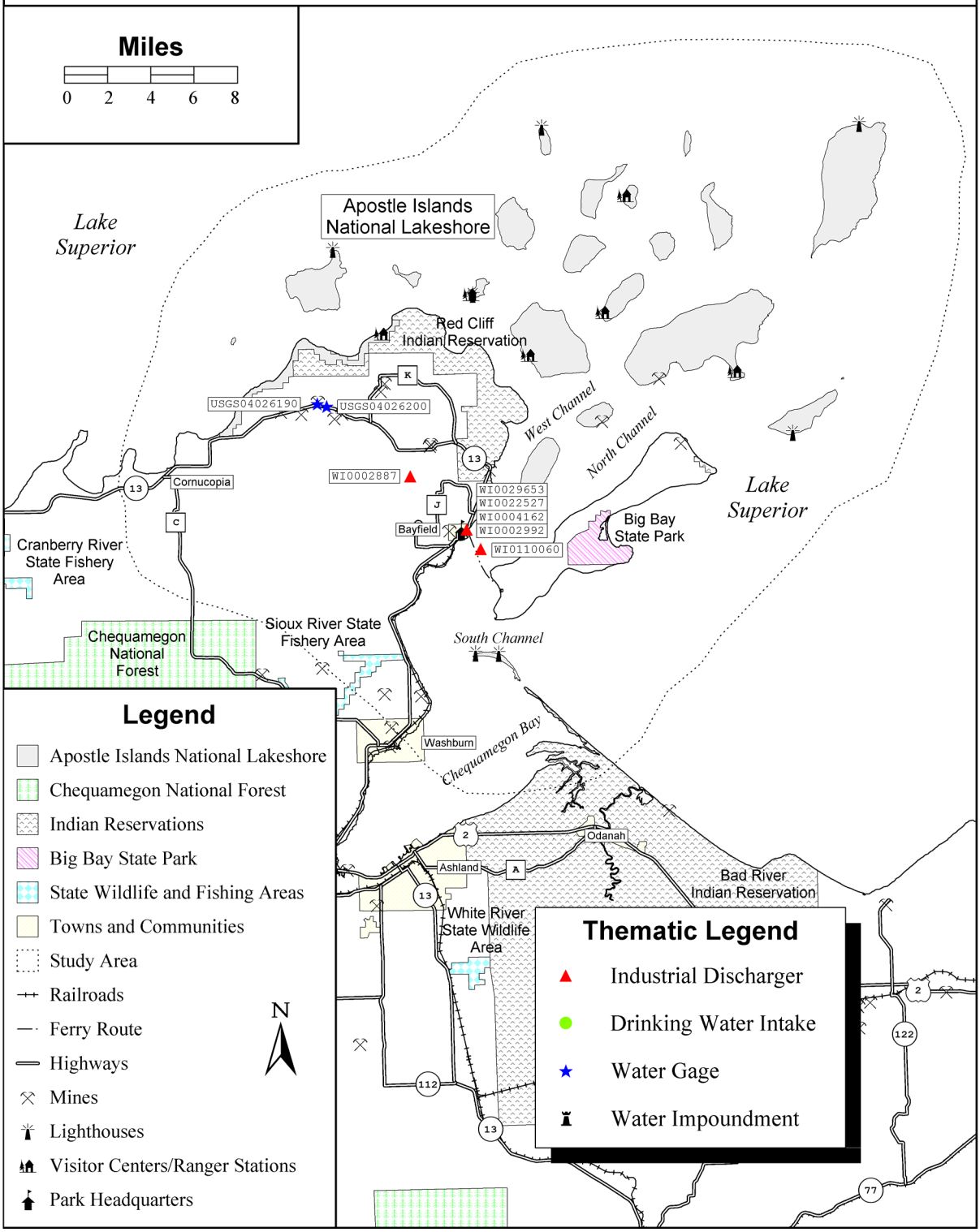
Apostle Islands National Lakeshore

Water Quality Monitoring Locations



Apostle Islands National Lakeshore

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



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

Industrial Facility Discharges

Site ID	Station/Facility Name	Address	City	Facility Receiving Water Name
WI0002887	NORTHERN STATES POWER CO BAY	ANTHONY G SCHUSTER	EAU CLAIRE	L SUPERIOR
WI0002992	BODIN'S INC FISHERIES		BAYFIELD	..
WI0004162	WI DNR BAYFIELD HATCHERY	LARRY NELSON	BAYFIELD	L SUPERIOR VIA P
WI0022527	U.S. COAST GUARD DEVILS ISLAND		BAYFIELD	PIKES C
WI0029653	BAYFIELD CITY	WILLIAM HACKBARTH	BAYFIELD	L SUPERIOR
WI0110060	USDI BIA RD CLFF BND L S CHPP	.....	BAYFIELD	RED CLIFF BAY LK SUPERIOR

Drinking Water Intakes

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

No drinking water intakes available for this study area.

Water Gages

Site ID	Station Name	Site Type	Drainage Area (Square Miles)	Begin Year	End Year
USGS04026190	SAND RIVER NEAR RED CLIFF, WI	Stream	28.20	1980	1984
USGS04026200	SAND RIVER TRIBUTARY	Stream	1.14	1959	1997

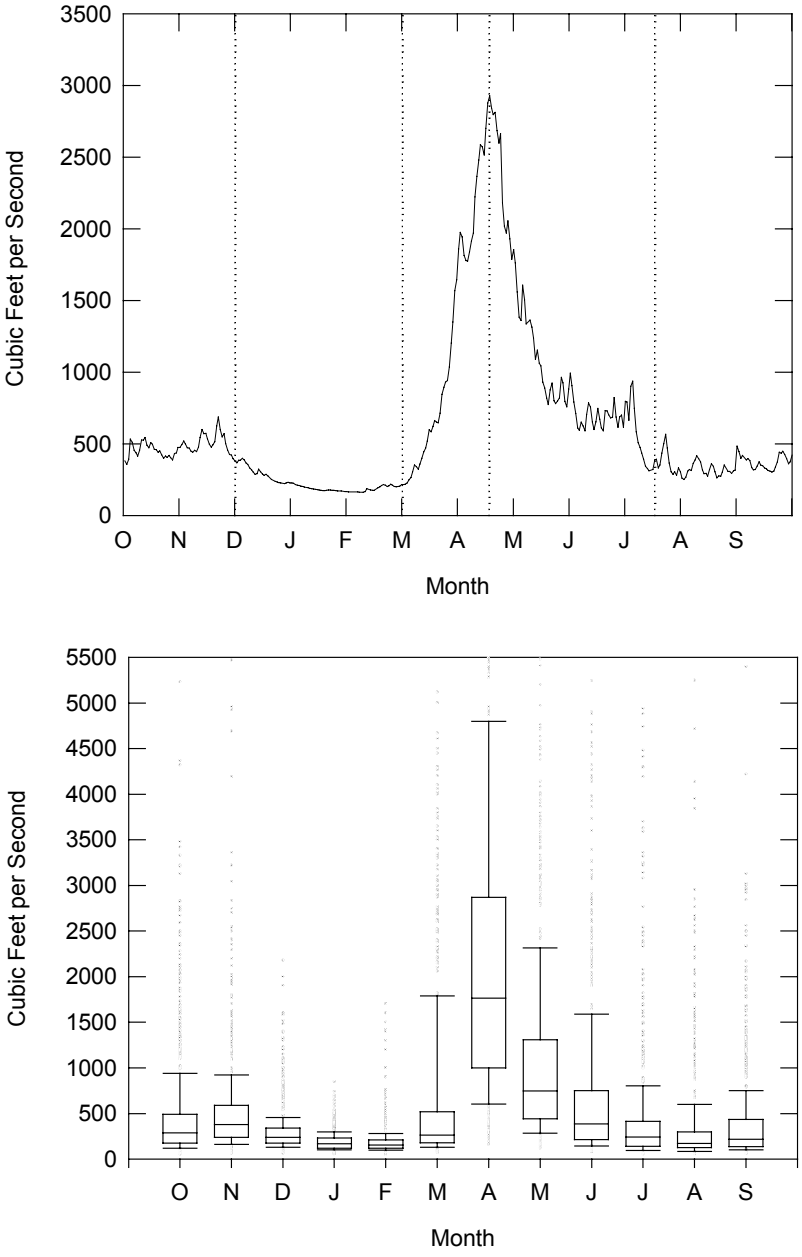
Water Impoundments

Site ID	Impoundment Name	Owner	Primary Purpose	Type of Dam	Downstream Hazard	Year Completed

No water impoundments available for this study area.

REPRESENTATIVE MEAN ANNUAL HYDROGRAPH FOR SEASONAL ANALYSIS

APOSTLE ISLANDS NATIONAL LAKESHORE
Bad River near Odanah, WI
04027000, 49 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 Apostle Islands National Lakeshore are: Jul. 15 to Nov .30, Dec. 1 to Feb. 28, Mar. 1 to Apr. 14, and Apr. 15 to Jul. 14.

CONTACTS FOR AGENCY CODES RETRIEVED FOR APIS

AGENCY	PRIMARY CONTACT NAME	ORGANIZATION	PHONE NUMBER(S)	
21WIDNR	TIEGS, CAROL	WISCONSIN DEPT OF NAT RES	(608)267-7659	
112WRD	BRIGGS, JOHN	US GEOLOGICAL SURVEY	(703)648-5624	
21WIL	TIEGS, CAROL	WISCONSIN DEPT OF NAT RES	(608)267-7659	
21WITIS	TIEGS, CAROL	WISCONSIN DEPT OF NAT RES	(608)267-7659	
11NPSWRD	TUCKER, DEAN	NATIONAL PARK SERVICE	(970)225-3516	(970)225-3518
21WIS	TIEGS, CAROL	WISCONSIN DEPT OF NAT RES	(608)267-7659	
AIJCCCIW	RICHARDSON, BILL	EPA LARGE LAKES RES LAB	(313)226-7811	
1115GLSB	ROSS, STU	USEPA REGION 5	(312)353-0299	
12ELS1	LANDERS, DIXON H.	EPA ENVIRONMENTAL RES LAB	(541)754-4427	
11FWS	HOELMAN, LOUIS	USEPA HQ	(202)260-7050	

QUANTITY OF DATA RETRIEVED FOR APIS BY AGENCY CODE

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

Agency	Organization	Period of Record		Water Quality Stations		Longer Term[1] Stations		No Data Stations		Water Quality Observations		Water Quality Parameters	
		Study Area	Park Only	S.A.	Park	S.A.	Park	S.A.	Park	S.A.	Park	S.A.	Park
21WIDNR	WISCONSIN DEPT OF NAT RES	06/10/70-11/09/76	No Data in Park	9	0	0	0	0	0	933	0	25	0
112WRD	US GEOLOGICAL SURVEY	09/28/78-08/22/89	07/23/81-08/24/84	56	9	1	0	0	0	2327	173	170	30
21WIL	WISCONSIN DEPT OF NAT RES	07/18/79-07/18/79	No Data in Park	1	0	0	0	0	0	24	0	24	0
21WITIS	WISCONSIN DEPT OF NAT RES	08/22/78-08/29/95	No Data in Park	18	0	7	0	5	0	3946	0	42	0
11NPSWRD	NATIONAL PARK SERVICE	08/06/80-08/21/96	08/06/80-08/20/96	68	35	0	0	0	0	5098	1476	45	27
21WIS	WISCONSIN DEPT OF NAT RES	11/01/76-08/15/96	No Data in Park	14	0	0	0	5	0	444	0	179	0
AIJCCCIW	EPA LARGE LAKES RES LAB	08/26/68-09/09/92	No Data in Park	39	0	5	0	0	0	6336	0	108	0
1115GLSB	USEPA REGION 5	09/14/72-11/01/79	No Data in Park	15	0	0	0	0	0	756	0	38	0
12ELS1	EPA ENVIRONMENTAL RES LAB	11/01/84-11/01/84	No Data in Park	1	0	0	0	0	0	26	0	26	0
11FWS	USEPA HQ	10/01/69-10/01/86	No Data in Park	1	0	1	0	0	0	791	0	39	0
Totals		08/26/68-08/21/96	08/06/80-08/20/96	222	44	14	0	10	0	20681	1649	479	47

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

Station Period of Record Tabulation
From 08/26/68 To 08/21/96

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 08/21/96	01/01/75 to 12/31/84	Before 01/01/75
APIS0001	OPEN LAKE STATION	No	327	0	327	0
APIS0002	11 MI EAST OF STOCKTON I.,WIS.	No	348	0	0	348
APIS0003	8 MI NE OF MICHIGAN ISLAND	No	81	0	81	0
APIS0004	OPEN LAKE STATION	No	80	80	0	0
APIS0005	OPEN LAKE STATION	No	96	96	0	0
APIS0006	OPEN LAKE STATION	No	29	29	0	0
APIS0007	OPEN LAKE STATION	No	86	86	0	0
APIS0008	OPEN LAKE STATION	No	26	26	0	0
APIS0009	LAKE SUPERIOR NORTH OF OUTER ISLAND LIGHTHOUSE	No	127	127	0	0
APIS0010	APOSTLE ISLANDS	No	576	0	576	0
APIS0011[1]	LAKE SUPERIOR 12 GRID 1211	No	172	172	0	0
APIS0012[1]	LAKE SUPERIOR 13 GRID 1311	No	1694	1234	460	0
APIS0013	N BASIN OF OUTER ISLAND LAGOON IN LAKE SUPERIOR	Yes	52	52	0	0
APIS0014	N LOBE OF LAGOON AT SW SIDE OF OUTER IS., WI	Yes	29	0	29	0
APIS0015	S BASIN OF OUTER ISLAND LAGOON IN LAKE SUPERIOR	Yes	57	57	0	0
APIS0016	LAGOON ON SOUTHWEST PART OF OUTER ISLAND	Yes	249	249	0	0
APIS0017	OPEN LAKE STATION	No	22	22	0	0
APIS0018	S LOBE OF LAGOON AT SW SIDE OF OUTER IS., WI	Yes	17	0	17	0
APIS0019	OPEN LAKE STATION	No	86	86	0	0
APIS0020	OPEN LAKE STATION	No	69	69	0	0
APIS0021[1]	OPEN LAKE STATION	No	75	75	0	0
APIS0022	OPEN LAKE STATION	No	304	0	304	0
APIS0023	5 MI NE OF OUTER I.,WISCONSIN	No	179	0	0	179
APIS0024	OPEN LAKE STATION	No	105	105	0	0
APIS0025	LAKE SUPERIOR 0.5 MILES SOUTH OF OUTER ISLAND	No	437	437	0	0
APIS0026	MICHIGAN ISLAND LAGOON - EAST BASIN	Yes	21	0	21	0
APIS0027	LAGOON ON SOUTHWEST PART OF MICHIGAN ISLAND	Yes	273	273	0	0
APIS0028	MICHIGAN ISLAND LAGOON IN LAKE SUPERIOR	Yes	64	64	0	0
APIS0029	MICHIGAN ISLAND LAGOON - WEST BASIN	Yes	21	0	21	0
APIS0030	STOCKTON ISLAND-STATION #1	Yes	7	0	7	0
APIS0031	SOUTH OF MICHIGAN I.,WISCONSIN	No	290	0	0	290
APIS0032	OPEN LAKE STATION	No	271	0	271	0
APIS0033	STOCKTON ISLAND LAGOON IN LAKE SUPERIOR	Yes	55	55	0	0
APIS0034	STOCKTON ISLAND-STATION #7	Yes	7	0	7	0
APIS0035	LAKE SUPERIOR IN PRESQUE ISLE HARBOR	No	10	10	0	0
APIS0036	LAKE SUPERIOR INSIDE PRESQUE ISLE HARBOR	No	248	248	0	0
APIS0037	STOCKTON ISLAND-STATION #6	Yes	13	0	13	0
APIS0038	LAKE SUPERIOR AT DOCK ON PRESQUE ISLE BAY, WI	No	13	0	13	0
APIS0039	LAGOON ON SOUTHEAST PART OF STOCKTON ISLAND	Yes	383	383	0	0
APIS0040	LAKE SUPERIOR OUTSIDE OF PRESQUE ISLE HARBOR	No	237	237	0	0
APIS0041	PRESQUE ISLE DOCK AT STOCKTON ISLAND	No	28	0	28	0
APIS0042	STOCKTON ISLAND-STATION #8	Yes	11	0	11	0
APIS0043	LAKE SUPERIOR IN PRESQUE ISLE BAY	No	8	8	0	0
APIS0044	PRESQUE ISLE BAY SITE 9 NEAR STOCKTON ISLAND, WI	No	23	0	23	0
APIS0045	PRESQUE ISLE BAY SITE 8 NEAR STOCKTON ISLAND, WI	No	24	0	24	0
APIS0046	LAKE SUPERIOR DUE WEST OF PRESQUE ISLE HARBOR	No	6	6	0	0
APIS0047	LAKE SUPERIOR IN PRESQUE ISLE BAY	No	70	70	0	0
APIS0048	LAKE SUPERIOR SOUTHWEST OF PRESQUE ISLE HARBOR	No	6	6	0	0
APIS0049	LAKE SUPERIOR NORTHWEST OF PRESQUE ISLE HARBOR	No	6	6	0	0
APIS0050	STOCKTON ISLAND-STATION #5	Yes	7	0	7	0
APIS0051	PRESQUE ISLE BAY SITE 5 NEAR STOCKTON ISLAND, WI	No	21	0	21	0
APIS0052	PRESQUE ISLE BAY SITE 7 NEAR STOCKTON ISLAND, WI	No	24	0	24	0
APIS0053	PRESQUE ISLE BAY SITE 4 NEAR STOCKTON ISLAND, WI	No	23	0	23	0
APIS0054	LAKE SUPERIOR 0.5 MILES SOUTH OF PRESQUE ISLE	No	526	526	0	0
APIS0055	PRESQUE ISLE BAY SITE 6 NEAR STOCKTON ISLAND, WI	No	24	0	24	0
APIS0056	STOCKTON ISLAND-STATION #4	Yes	7	0	7	0
APIS0057	PRESQUE ISLE BAY SITE 1 NEAR STOCKTON ISLAND, WI	No	24	0	24	0
APIS0058	PRESQUE ISLE BAY SITE 3 NEAR STOCKTON ISLAND, WI	No	23	0	23	0
APIS0059	PRESQUE ISLE BAY SITE 2 NEAR STOCKTON ISLAND, WI	No	24	0	24	0
APIS0060[1]	3 MI SOUTH OF OUTER I.,WISCONSIN	No	124	0	0	124
APIS0061	3 MI WEST OF OUTER I.,WISCONSIN	No	331	0	0	331
APIS0062	LAKE SUPERIOR 12 GRID 1210	No	32	32	0	0
APIS0063	LAKE SUPERIOR 12 GRID 1210	No	201	52	149	0
APIS0064[1]	LAKE SUPERIOR 13 GRID 1310	No	83	83	0	0
APIS0065[1]	LAKE SUPERIOR 14 GRID 1410	No	262	232	30	0
APIS0066	STOCKTON ISLAND-STATION #2	Yes	7	0	7	0
APIS0067	LAKE SUPERIOR NR QUARRY POINT, WI	No	13	0	13	0
APIS0068	STOCKTON ISLAND-STATION #9	Yes	6	0	6	0
APIS0069	LAKE SUPERIOR AT DOCK ON QUARRY BAY, WI	No	12	0	12	0
APIS0070	STOCKTON ISLAND-STATION #3	Yes	7	0	7	0
APIS0071	LAKE SUPERIOR AT DOCK ON SOUTH TWIN ISLAND, WI	No	10	0	10	0

Station Period of Record Tabulation
From 08/26/68 To 08/21/96

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 08/21/96	01/01/75 to 12/31/84	Before 01/01/75
APIS0072	LAKE SUPERIOR WEST OF DOCK AT SOUTH TWIN ISLAND	No	165	165	0	0
APIS0073	LK SUPERIOR SITE 3 NR ROCKY & S TWIN ISLANDS WI	No	7	0	7	0
APIS0074	LK SUPERIOR SITE 4 NR ROCKY & S TWIN ISLANDS WI	No	7	0	7	0
APIS0075	LK SUPERIOR SITE 3 NR ROCKY & S TWIN ISLANDS, WI	No	10	0	10	0
APIS0076	LK SUPERIOR SITE 2 NR ROCKY & S TWIN ISLANDS, WI	No	12	0	12	0
APIS0077	LK SUPERIOR SITE 4 NR ROCKY & S TWIN ISLANDS, WI	No	11	0	11	0
APIS0078	LK SUPERIOR SITE 2 NR ROCKY & S TWIN ISLANDS WI	No	7	0	7	0
APIS0079	LK SUPERIOR SITE 5 NR ROCKY & S TWIN ISLANDS WI	No	7	0	7	0
APIS0080	LK SUPERIOR SITE 5 NR ROCKY & S TWIN ISLANDS, WI	No	11	0	11	0
APIS0081	LK SUPERIOR SITE 7 NR ROCKY & S TWIN ISLANDS WI	No	8	0	8	0
APIS0082	LK SUPERIOR SITE 7 NR ROCKY & S TWIN ISLANDS, WI	No	14	0	14	0
APIS0083	LK SUPERIOR SITE 1 NR ROCKY & S TWIN ISLANDS, WI	No	20	0	20	0
APIS0084	LK SUPERIOR SITE 1 NR ROCKY & S TWIN ISLANDS WI	No	6	0	6	0
APIS0085	LK SUPERIOR SITE 6 NR ROCKY & S TWIN ISLANDS WI	No	7	0	7	0
APIS0086	LK SUPERIOR SITE 6 NR ROCKY & S TWIN ISLANDS, WI	No	12	0	12	0
APIS0087	LAKE SUPERIOR 0.2 MILES EAST OF ROCKY ISLAND	No	599	599	0	0
APIS0088	LAKE SUPERIOR SITE 2 NEAR RED CLIFF, WI	No	140	0	140	0
APIS0089	LK SUPERIOR SITE 8 NR ROCKY & S TWIN ISLANDS WI	No	7	0	7	0
APIS0090	LK SUPERIOR SITE 8 NR ROCKY & S TWIN ISLANDS, WI	No	12	0	12	0
APIS0091	LAKE SUPERIOR AT DOCK ON ROCKY ISLAND, WI	No	15	0	15	0
APIS0092	LK SUPERIOR SITE 9 NR ROCKY & S TWIN ISLANDS, WI	No	18	0	18	0
APIS0093	LK SUPERIOR SITE 9 NR ROCKY & S TWIN ISLANDS WI	No	6	0	6	0
APIS0094	LAKE SUPERIOR N OF MADELINE IS	No	33	0	33	0
APIS0095	OPEN LAKE STATION	No	51	51	0	0
APIS0096	OPEN LAKE STATION	No	74	74	0	0
APIS0097[1]	OPEN LAKE STATION	No	104	104	0	0
APIS0098	OPEN LAKE STATION	No	26	26	0	0
APIS0099	2 MI SOUTH OF MADELINE I.,WIS.	No	456	0	0	456
APIS0100	OPEN LAKE STATION	No	114	114	0	0
APIS0101	OPEN LAKE STATION	No	98	98	0	0
APIS0102	OPEN LAKE STATION	No	381	0	381	0
APIS0103	OAK ISLAND SITE #1A	Yes	7	0	7	0
APIS0104	OAK ISLAND STREAM #1	Yes	19	0	19	0
APIS0105	OAK ISLAND SITE #1B	Yes	13	0	13	0
APIS0106	KAKAGON RIVER SLOUGH SITE #1 NEAR ODANAH, WI	No	6	6	0	0
APIS0107	KAKAGON RIVER SLOUGH SITE #5 NEAR ODANAH, WI	No	14	14	0	0
APIS0108	KAKAGON RIVER SLOUGH SITE #7 NEAR ODANAH, WI	No	14	14	0	0
APIS0109	KAKAGON RIVER SLOUGH SITE #11 NEAR ODANAH, WI	No	14	14	0	0
APIS0110	KAKAGON RIVER SLOUGH SITE #20 NEAR ODANAH, WI	No	8	8	0	0
APIS0111	KAKAGON RIVER SLOUGH SITE #16 NEAR ODANAH, WI	No	18	18	0	0
APIS0112	KAKAGON RIVER SLOUGH SITE #12 NEAR ODANAH, WI	No	14	14	0	0
APIS0113	KAKAGON RIVER SLOUGH SITE #9 NEAR ODANAH, WI	No	16	16	0	0
APIS0114	OAK ISLAND SITE #1C	Yes	8	0	8	0
APIS0115	OAK ISLAND SITE #1D	Yes	8	0	8	0
APIS0116	KAKAGON SLOUGH	No	0	0	0	0
APIS0117	OAK ISLAND SITE #1E	Yes	8	0	8	0
APIS0118	LAKE SUPERIOR SITE 3 NR BASSWOOD & MADELAINE IS	No	133	0	133	0
APIS0119	OAK ISLAND SITE #7A	Yes	7	0	7	0
APIS0120	OAK ISLAND STREAM #7	Yes	19	0	19	0
APIS0121	OAK ISLAND SITE #7B	Yes	13	0	13	0
APIS0122	OAK ISLAND SITE #7C	Yes	13	0	13	0
APIS0123	OAK ISLAND SITE #7D	Yes	13	0	13	0
APIS0124	OAK ISLAND SITE #6A	Yes	7	0	7	0
APIS0125	OAK ISLAND STREAM #6	Yes	19	0	19	0
APIS0126	STREAM ON NORTH OAK ISLAND IN LAKE SUPERIOR	Yes	81	81	0	0
APIS0127	KAKAGON SLOUGH	No	24	0	24	0
APIS0128	OAK ISLAND SITE #7E	Yes	13	0	13	0
APIS0129	OAK ISLAND SITE #6B	Yes	13	0	13	0
APIS0130	OAK ISLAND SITE #5A	Yes	7	0	7	0
APIS0131	OAK ISLAND STREAM #5	Yes	18	0	18	0
APIS0132	OAK ISLAND SITE #6C	Yes	13	0	13	0
APIS0133	OAK ISLAND SITE #5B	Yes	13	0	13	0
APIS0134	LAKE SUPERIOR NEAR KAKAGON SLOU.	No	207	0	0	207
APIS0135	OAK ISLAND SITE #6E	Yes	13	0	13	0
APIS0136	OAK ISLAND SITE #5C	Yes	8	0	8	0
APIS0137	OAK ISLAND SITE #6D	Yes	13	0	13	0
APIS0138	KAKAGON SLOUGH	No	0	0	0	0
APIS0139	LAKE SUPERIOR 1/4 MILE NORTH OF OAK ISLAND	No	8	8	0	0
APIS0140[1]	LAKE SUPERIOR 14 GRID 1409	No	165	151	14	0
APIS0141	LAKE SUPERIOR 15 KAKAGON SLOUGH	No	0	0	0	0
APIS0142	LAKE SUPERIOR 13 GRID 1309	No	59	59	0	0

Station Period of Record Tabulation
From 08/26/68 To 08/21/96

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 08/21/96	01/01/75 to 12/31/84	Before 01/01/75
APIS0143[1]	LAKE SUPERIOR 12 GRID 1209	No	181	181	0	0
APIS0144	LAKE SUPERIOR AT DOCK ON OAK ISLAND, WI	Yes	10	0	10	0
APIS0145	LAKE SUPERIOR SITE 4 NR RED CLIFF & BASSWOOD IS	No	243	0	243	0
APIS0146	LAKE SUPERIOR EAST OF SOUTH PART OF LONG ISLAND	No	5	5	0	0
APIS0147	LAKE SUPERIOR-OAK POINT	No	63	0	0	63
APIS0148	LAKE SUPERIOR AT FLOATING DOCK AT RED CLIFF BAY	No	15	0	15	0
APIS0149	LAKE SUPERIOR 1/4 MILE SOUTHWEST OF LONG ISLAND	No	5	5	0	0
APIS0150	LAKE SUPERIOR NORTH OF LONG ISLAND	No	5	5	0	0
APIS0151	LAKE SUPERIOR AT DOCK IN RED CLIFF, WI	No	13	0	13	0
APIS0152	LAKE SUPERIOR 1/4 MILE SOUTH OF LONG ISLAND	No	5	5	0	0
APIS0153	RED CLIFF CREEK NEAR RED CLIFF, WI	No	54	0	54	0
APIS0154	LA POINTE HARBOR	No	20	0	20	0
APIS0155	LAKE SUPERIOR AT RASPBERRY ISLAND SPIT, WI	No	15	0	15	0
APIS0156	LA POINTE HARBOR	No	20	0	20	0
APIS0157	LA POINTE HARBOR	No	40	0	40	0
APIS0158	LA POINTE HARBOR	No	20	0	20	0
APIS0159	LAKE SUPERIOR AT MADELINE ISLAND	No	75	0	75	0
APIS0160	LAKE SUPERIOR INSIDE CHEQUAMEGON BAY	No	61	61	0	0
APIS0161	LAKE SUPERIOR OUTSIDE CHEQUAMEGON BAY	No	57	57	0	0
APIS0162	LAKE SUPERIOR 2 MILES SOUTH OF LONG ISLAND	No	273	273	0	0
APIS0163[1]	LAKE SUPERIOR 15 GRID 1509	No	665	193	472	0
APIS0164	BLUFF, W OF BAYFIELD HARBOR #3	No	20	20	0	0
APIS0165	LAKE SUPERIOR 100 FEET WEST OF LONG ISLAND	No	5	5	0	0
APIS0166	BAYFIELD HRBR, NE SECTION 100 FT W OF CITY PIER	No	8	0	0	8
APIS0167	BAYFIELD HARBOR, N END SITE 1	No	20	20	0	0
APIS0168	BAYFIELD HARBOR, N END SITE 1	No	0	0	0	0
APIS0169	BAYFIELD HARBOR S END SITE 2	No	234	234	0	0
APIS0170	BAYFIELD HRBR, CENTER 25 FT N OF NORTHERN DOCK	No	8	0	0	8
APIS0171	BAYFIELD HRBR, NW SECTION 100 FT FR FERRY DOCK	No	8	0	0	8
APIS0172	BAYFIELD HRBR, S END BTWEEN TWO NORTHERN DOCKS	No	8	0	0	8
APIS0173	BAYFIELD HRBR, S END 200 FT TO SOUTH BREAKWATER	No	8	0	0	8
APIS0174	LAKE SUPERIOR AT CHEQ.BAY	No	413	0	0	413
APIS0175	RASPBERRY RIVER NEAR RED CLIFF, WI	No	21	21	0	0
APIS0176[1]	LAKE SUPERIOR AT BAYFIELD	No	791	105	347	339
APIS0177	RASPBERRY RIVER NEAR SAND BAY, WI	No	54	0	54	0
APIS0178	LAKE SUPERIOR-APOSTLE ISLANDS	No	105	0	0	105
APIS0179	WDNR BAYFIELD FISH HATCHERY	No	20	0	20	0
APIS0180	BAYFIELD 00 HATCHERY	No	0	0	0	0
APIS0181	SIOUX RIVER ABOVE MOUTH SITE 1	No	20	20	0	0
APIS0182	SIOUX RIVER ABOVE STH 13 SITE 2	No	20	20	0	0
APIS0183	LK SUPERIOR 14 SIOUX RIVER	No	0	0	0	0
APIS0184	BAYFIELD HATCHERY	No	0	0	0	0
APIS0185	SIOUX R AT STH 13	No	0	0	0	0
APIS0186	LAKE SUPERIOR IN LITTLE SAND BAY	No	165	165	0	0
APIS0187	RED CLIFF CREEK NEAR BAYFIELD, WI	No	21	21	0	0
APIS0188	LAKE SUPERIOR SITE 1 NORTH OF YORK ISLAND, WI	No	139	0	139	0
APIS0189	LITTLE SIOUX R FRIENDLY VALLEY	No	42	42	0	0
APIS0190	SAND RIVER AT MOUTH NEAR CORNUCOPIA, WI	No	21	21	0	0
APIS0191[1]	SAND RIVER NEAR RED CLIFF, WI	No	664	0	664	0
APIS0192	SAND R AT STH 13	No	0	0	0	0
APIS0193	SAND RIVER AT HWY 13	No	43	43	0	0
APIS0194	LAKE SUPERIOR N OF SAND ISLAND	No	7	0	7	0
APIS0195	OPEN LAKE STATION	No	97	97	0	0
APIS0196	OPEN LAKE STATION	No	94	94	0	0
APIS0197	1 MI NW OF SAND ISLAND,WISCONSIN	No	109	0	109	0
APIS0198	1 MI NORTH OF SAND I.,WISCONSON	No	377	0	0	377
APIS0199	OPEN LAKE STATION	No	346	0	346	0
APIS0200	OPEN LAKE STATION	No	24	24	0	0
APIS0201[1]	OPEN LAKE STATION	No	79	79	0	0
APIS0202	OPEN LAKE STATION	No	105	105	0	0
APIS0203	LAKE SUPERIOR 1 MILE SOUTHWEST OF SAND ISLAND	No	526	526	0	0
APIS0204	WEST OF SAND ISLAND	No	6	0	6	0
APIS0205	4 MI NW OF SAND ISLAND	No	108	0	108	0
APIS0206	6 MI NORTH OF SAND I.,WISCONSIN	No	190	0	0	190
APIS0207	LAKE SUPERIOR N.W.OF EAGLE IS	No	13	0	13	0
APIS0208	WEST OF SAND I.,WISCONSIN	No	429	0	0	429
APIS0209[1]	WEST OF SAN I.,WISCONSIN	No	145	0	0	145
APIS0210	LAKE SUPERIOR EAST OF SQUAW BAY	No	86	0	86	0
APIS0211	LAKE SUPERIOR 13 GRID 1307	No	309	309	0	0
APIS0212	PERCH LAKE	No	26	0	26	0
APIS0213	SISKIWIT RIVER AT HIGHWAY 13 AT CORNUCOPIA, WI	No	21	21	0	0

Station Period of Record Tabulation
From 08/26/68 To 08/21/96

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 08/21/96	01/01/75 to 12/31/84	Before 01/01/75
APIS0214	CORNUCOPIA HRBR, MIDCHNNEL, 125 FT W OF EAST SHR	No	8	0	0	8
APIS0215	CORNUCOPIA HRBR 75 FT N OF E END OF SW STEEL PLG	No	8	0	0	8
APIS0216	SW CORNUCOPIA HRBR, ACRSS FR OLD LARGE BLDG	No	8	0	0	8
APIS0217	CORNUCOPIA HRBR, MIDCH ACROSS FROM MUNICIPAL DCK	No	8	0	0	8
APIS0218	CORNUCOPIA HRBR, 50 FT S OF END OF NORTHERN PIER	No	8	0	0	8
APIS0219	LITTLE SISKIWIT LAKE T50R6W S22	No	20	20	0	0
APIS0220	LITTLE SISKIWIT LAKE DEEP SPOT	No	25	25	0	0
APIS0221	SISKIWIT LAKE	No	0	0	0	0
APIS0222	SISKIWIT LAKE	No	103	78	25	0

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

Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Parameter Code	Name	Total Obs	01/01/85 to 08/21/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	1477	802	333	342	113	9
00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	266	209	57	0	19	0
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	875	411	226	238	132	43
00019	SAMPLE WEIGHT IN GRAMS	32	0	32	0	1	0
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	4	0	4	0	3	0
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	260	259	1	0	9	3
00023	SAMPLE WEIGHT IN POUNDS	278	186	63	29	15	0
00024	SAMPLE LENGTH IN INCHES	409	191	121	97	24	0
00025	BAROMETRIC PRESSURE (MM OF HG)	7	0	7	0	6	3
00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	142	18	124	0	46	8
00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	207	18	158	31	60	9
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	93	0	2	91	8	0
00032	CLOUD COVER (PERCENT)	1	0	1	0	1	0
00061	FLOW, STREAM, INSTANTANEOUS CFS	121	0	121	0	33	30
00065	STAGE, STREAM (FEET)	1	0	1	0	1	0
00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	9	0	9	0	9	0
00069	SEA WAVES(0=NONE;1=0-3";2=4-20";3=21-48";4=4-8')	259	259	0	0	8	3
00070	TURBIDITY, (JACKSON CANDLE UNITS)	203	0	11	192	13	0
00072	STAGE, STREAM (METERS)	17	17	0	0	1	1
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	12	10	2	0	3	0
00077	TRANSPARENCY, SECCHI DISC (INCHES)	1	0	1	0	1	0
00078	TRANSPARENCY, SECCHI DISC (METERS)	73	42	13	18	39	3
00079	COLOR, WATER (FOREL-ULE SCALE)	49	19	12	18	30	0
00080	COLOR (PLATINUM-COBALT UNITS)	1	0	1	0	1	0
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	325	325	0	0	14	8
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	334	78	189	67	105	34
00102	PERCENT SUSPENDED SOLIDS ON 14U FILTER %	1	1	0	0	1	0
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	348	348	0	0	12	0
00154	SULFATE (AS S) WHOLE WATER, MG/L	1	0	1	0	1	0
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	378	309	69	0	23	7
00300	OXYGEN, DISSOLVED MG/L	337	68	77	192	82	35
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	297	80	86	131	43	0
00312	BOD, 6 DAY, 20 DEG C MG/L	5	0	5	0	1	0
00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	15	0	5	10	14	0
00400	PH (STANDARD UNITS)	306	82	189	35	103	36
00403	PH, LAB, STANDARD UNITS SU	20	0	20	0	13	8
00406	PH, FIELD, STANDARD UNITS SU	322	322	0	0	14	8
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	1	0	1	0	1	0
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	214	48	35	131	42	24
00440	BICARBONATE ION (MG/L AS HCO3)	13	0	0	13	3	0
00495	MOISTURE CONTENT (PERCENT OF TOTAL DRY WEIGHT)	1	1	0	0	1	0
00500	RESIDUE, TOTAL (MG/L)	2	2	0	0	1	0
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	3	1	0	2	2	0
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	16	8	8	0	3	0
00553	OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,MG/KG	12	2	0	10	11	0
00557	OIL & GREASE,SED,DRY WT,FREON EXTR-GRAV METH,MG/KG	14	5	9	0	10	0
00600	NITROGEN, TOTAL (MG/L AS N)	2	0	2	0	2	0
00601	NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	35	9	26	0	10	0
00602	NITROGEN, DISSOLVED (MG/L AS N)	13	0	2	11	3	0
00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	28	28	0	0	16	0
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	13	0	2	11	4	0
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	3	0	3	0	1	0
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	281	28	95	158	41	0
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	1	0	1	0	1	0
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	42	15	27	0	32	0
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	42	0	11	31	6	0
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	3	0	3	0	2	0
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	79	68	11	0	20	0
00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	1	0	1	0	1	0
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	78	1	77	0	10	3
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	36	14	22	0	27	0
00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	17	2	5	10	15	0
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	4	0	4	0	4	3
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	354	97	94	163	50	3
00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	14	14	0	0	8	0
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	2	0	2	0	1	0
00662	PHOSPHORUS (P), WATER, TOTAL RECOVERABLE UG/L	1	0	1	0	1	0
00665	PHOSPHORUS, TOTAL (MG/L AS P)	388	89	192	107	77	4
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	265	80	85	100	38	0
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	66	20	36	10	48	0
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	357	100	95	162	51	3

Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Parameter Code	Name	Total Obs	01/01/85 to 08/21/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	74	9	48	17	28	3
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	78	3	75	0	9	0
00685	CARBON, TOTAL INORGANIC (MG/L AS C)	17	0	0	17	2	0
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	27	0	27	0	22	0
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	13	0	13	0	12	0
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	75	37	38	0	30	0
00690	CARBON, TOTAL (MG/L AS C)	17	0	0	17	2	0
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	1	0	1	0	1	0
00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	20	0	20	0	15	0
00900	HARDNESS, TOTAL (MG/L AS CACO3)	8	0	4	4	3	0
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	1	0	1	0	1	0
00910	CALCIUM (MG/L AS CACO3)	5	0	1	4	2	0
00915	CALCIUM, DISSOLVED (MG/L AS CA)	131	38	82	11	41	8
00916	CALCIUM, TOTAL (MG/L AS CA)	1	0	1	0	1	0
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	1	1	0	0	1	0
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	6	1	5	0	5	0
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	107	13	83	11	34	8
00927	MAGNESIUM, TOTAL (MG/L AS MG)	5	0	1	4	2	0
00929	SODIUM, TOTAL (MG/L AS NA)	5	0	1	4	2	0
00930	SODIUM, DISSOLVED (MG/L AS NA)	107	13	83	11	34	8
00931	SODIUM ADSORPTION RATIO	4	0	4	0	2	0
00932	SODIUM, PERCENT	4	0	4	0	2	0
00935	POTASSIUM, DISSOLVED (MG/L AS K)	107	13	83	11	34	8
00937	POTASSIUM, TOTAL MG/L AS K)	5	0	1	4	2	0
00940	CHLORIDE,TOTAL IN WATER MG/L	102	0	31	71	25	8
00941	CHLORIDE, DISSOLVED IN WATER MG/L	69	68	1	0	17	0
00945	SULFATE, TOTAL (MG/L AS SO4)	23	0	19	4	13	8
00946	SULFATE, DISSOLVED (MG/L AS SO4)	175	80	84	11	31	0
00950	FLUORIDE, DISSOLVED (MG/L AS F)	26	0	20	6	15	8
00951	FLUORIDE, TOTAL (MG/L AS F)	2	0	0	2	1	0
00955	SILICA, DISSOLVED (MG/L AS SI02)	419	152	104	163	60	11
01000	ARSENIC, DISSOLVED (UG/L AS AS)	2	1	1	0	2	0
01001	ARSENIC, SUSPENDED (UG/L AS AS)	1	0	1	0	1	0
01002	ARSENIC, TOTAL (UG/L AS AS)	2	1	1	0	2	0
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	6	1	5	0	5	0
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	63	6	35	22	8	0
01005	BARIUM, DISSOLVED (UG/L AS BA)	1	0	1	0	1	0
01006	BARIUM, SUSPENDED (UG/L AS BA)	1	0	1	0	1	0
01007	BARIUM, TOTAL (UG/L AS BA)	1	0	1	0	1	0
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	10	5	5	0	9	0
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	5	5	0	0	5	0
01025	CADMIUM, DISSOLVED (UG/L AS CD)	13	4	1	8	5	0
01026	CADMIUM, SUSPENDED (UG/L AS CD)	1	0	1	0	1	0
01027	CADMIUM, TOTAL (UG/L AS CD)	5	4	1	0	3	0
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	6	1	5	0	5	0
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10	5	5	0	8	0
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	9	4	1	4	5	0
01031	CHROMIUM, SUSPEND (UG/L AS CR)	1	0	1	0	1	0
01034	CHROMIUM, TOTAL (UG/L AS CR)	5	4	1	0	3	0
01035	COBALT, DISSOLVED (UG/L AS CO)	10	0	1	9	3	0
01036	COBALT, SUSPENDED (UG/L AS CO)	1	0	1	0	1	0
01037	COBALT, TOTAL (UG/L AS CO)	1	0	1	0	1	0
01040	COPPER, DISSOLVED (UG/L AS CU)	27	4	12	11	8	0
01041	COPPER, SUSPENDED (UG/L AS CU)	1	0	1	0	1	0
01042	COPPER, TOTAL (UG/L AS CU)	5	4	1	0	3	0
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	11	6	5	0	9	0
01044	IRON, SUSPENDED (UG/L AS FE)	1	0	1	0	1	0
01045	IRON, TOTAL (UG/L AS FE)	2	1	1	0	2	0
01046	IRON, DISSOLVED (UG/L AS FE)	24	1	12	11	7	0
01049	LEAD, DISSOLVED (UG/L AS PB)	27	4	12	11	8	0
01050	LEAD, SUSPENDED (UG/L AS PB)	1	0	1	0	1	0
01051	LEAD, TOTAL (UG/L AS PB)	5	4	1	0	3	0
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	27	12	5	10	25	0
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	11	6	5	0	9	0
01054	MANGANESE, SUSPENDED (UG/L AS MN)	1	0	1	0	1	0
01055	MANGANESE, TOTAL (UG/L AS MN)	3	1	2	0	3	0
01056	MANGANESE, DISSOLVED (UG/L AS MN)	14	1	2	11	5	0
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	4	0	0	4	2	0
01065	NICKEL, DISSOLVED (UG/L AS NI)	23	1	11	11	6	0
01067	NICKEL, TOTAL (UG/L AS NI)	1	1	0	0	1	0
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	5	0	5	0	4	0

Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Parameter Code	Name	Total Obs	01/01/85 to 08/21/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	19	0	0	19	2	0
01075	SILVER, DISSOLVED (UG/L AS AG)	1	0	1	0	1	0
01076	SILVER, SUSPENDED (UG/L AS AG)	1	0	1	0	1	0
01077	SILVER, TOTAL (UG/L AS AG)	1	0	1	0	1	0
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	5	5	0	0	5	0
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	5	0	0	5	2	0
01090	ZINC, DISSOLVED (UG/L AS ZN)	27	4	12	11	8	0
01091	ZINC, SUSPENDED (UG/L ZN)	1	0	1	0	1	0
01092	ZINC, TOTAL (UG/L AS ZN)	5	4	1	0	3	0
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	15	0	5	10	14	0
01105	ALUMINUM, TOTAL (UG/L AS AL)	4	3	1	0	3	0
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	3	3	0	0	2	0
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	1	1	0	0	1	0
01130	LITHIUM, DISSOLVED (UG/L AS LI)	11	0	0	11	2	0
01145	SELENIUM, DISSOLVED (UG/L AS SE)	2	1	1	0	2	0
01146	SELENIUM, SUSPENDED (UG/L AS SE)	1	0	1	0	1	0
01147	SELENIUM, TOTAL (UG/L AS SE)	2	1	1	0	2	0
01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	33	3	11	19	3	0
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	11	6	5	0	9	0
04440	PCB CONGENER #1260, TISSUE, WET WEIGHT UG/G	17	17	0	0	3	0
10217	PCB CONGENER IUPAC #101 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19128	PCB CONGENER IUPAC #7 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19129	PCB CONGENER IUPAC #6 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19130	PCB CONGENER IUPAC #5/8 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19131	PCB CONGENER IUPAC #19 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19132	PCB CONGENER IUPAC #17 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19133	PCB CONGENER IUPAC #24/27 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19134	PCB CONGENER IUPAC #16/32 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19135	PCB CONGENER IUPAC #26 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19136	PCB CONGENER IUPAC #28/31 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19137	PCB CONGENER IUPAC #33 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19139	PCB CONGENER IUPAC #45 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19140	PCB CONGENER IUPAC #46 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19141	PCB CONGENER IUPAC #52 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19142	PCB CONGENER IUPAC #49 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19143	PCB CONGENER IUPAC #47/48 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19144	PCB CONGENER IUPAC #44 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19145	PCB CONGENER IUPAC #37/42 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19146	PCB CONGENER IUPAC #41/64/71 TISSUE,WET WT UG/KG	1	1	0	0	1	0
19147	PCB CONGENER IUPAC #40 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19148	PCB CONGENER IUPAC #74 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19149	PCB CONGENER IUPAC #70/76 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19150	PCB CONGENER IUPAC #66/95 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19151	PCB CONGENER IUPAC #91 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19152	PCB CONGENER IUPAC #56/60 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19153	PCB CONGENER IUPAC #84/92 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19154	PCB CONGENER, IUPAC #101, TISSUE, WET WEIGHT UG/KG	2	2	0	0	1	0
19155	PCB CONGENER IUPAC #99 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19156	PCB CONGENER IUPAC #97 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19157	PCB CONGENER IUPAC #87 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19158	PCB CONGENER IUPAC #85 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19160	PCB CONGENER IUPAC #77/110 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19161	PCB CONGENER IUPAC #82 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19162	PCB CONGENER IUPAC #151 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19163	PCB CONGENER IUPAC #135/144 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19164	PCB CONGENER IUPAC #149 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19165	PCB CONGENER IUPAC #118 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19166	PCB CONGENER IUPAC #146 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19167	PCB CONGENER IUPAC #132/153 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19168	PCB CONGENER IUPAC #141 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19169	PCB CONGENER IUPAC #137/176 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19170	PCB CONGENER IUPAC #138/163 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19171	PCB CONGENER IUPAC #178 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19172	PCB CONGENER IUPAC #182/187 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19173	PCB CONGENER IUPAC #183 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19174	PCB CONGENER IUPAC #185 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19175	PCB CONGENER IUPAC #174 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19176	PCB CONGENER IUPAC #177 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19177	PCB CONGENER IUPAC #171/202 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19178	PCB CONGENER IUPAC #172/197 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19179	PCB CONGENER IUPAC #180 TISSUE,WET WT UG/KG	2	2	0	0	1	0

Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Parameter Code	Name	Total Obs	01/01/85 to 08/21/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
19180	PCB CONGENER IUPAC #199 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19182	PCB CONGENER IUPAC #201 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19183	PCB CONGENER IUPAC #196/203 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19184	PCB CONGENER IUPAC #195/208 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19185	PCB CONGENER IUPAC #194 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19186	PCB CONGENER IUPAC #206 TISSUE,WET WT UG/KG	2	2	0	0	1	0
19190	PCB CONGENER IUPAC #7 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19191	PCB CONGENER IUPAC #6 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19192	PCB CONGENER IUPAC #5/8 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19194	PCB CONGENER IUPAC #18 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19195	PCB CONGENER IUPAC #17 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19196	PCB CONGENER IUPAC #24/27 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19198	PCB CONGENER IUPAC #26 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19199	PCB CONGENER IUPAC #28/31 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19200	PCB CONGENER IUPAC #33 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19201	PCB CONGENER IUPAC #22 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19202	PCB CONGENER IUPAC #45 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19203	PCB CONGENER IUPAC #46 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19204	PCB CONGENER IUPAC #52 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19207	PCB CONGENER IUPAC #44 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19208	PCB CONGENER IUPAC #37/42 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19211	PCB CONGENER IUPAC #74 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19212	PCB CONGENER IUPAC #70/76 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19214	PCB CONGENER IUPAC #91 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19216	PCB CONGENER IUPAC #84/92 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19218	PCB CONGENER IUPAC #99 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19219	PCB CONGENER IUPAC #97 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19220	PCB CONGENER IUPAC #87 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19221	PCB CONGENER IUPAC #85 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19222	PCB CONGENER IUPAC #136 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19223	PCB CONGENER IUPAC #77/110 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19224	PCB CONGENER IUPAC #82 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19225	PCB CONGENER IUPAC #151 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19226	PCB CONGENER IUPAC #135/144 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19227	PCB CONGENER IUPAC #149 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19228	PCB CONGENER IUPAC #118 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19229	PCB CONGENER IUPAC #146 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19230	PCB CONGENER IUPAC #132/153 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19231	PCB CONGENER IUPAC #141 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19232	PCB CONGENER IUPAC #137/176 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19233	PCB CONGENER IUPAC #138/163 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19234	PCB CONGENER IUPAC #178 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19235	PCB CONGENER IUPAC #182/187 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19236	PCB CONGENER IUPAC #183 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19237	PCB CONGENER IUPAC #185 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19238	PCB CONGENER IUPAC #174 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19239	PCB CONGENER IUPAC #177 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19240	PCB CONGENER IUPAC #171/202 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19241	PCB CONGENER IUPAC #172/197 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19242	PCB CONGENER IUPAC #180 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19243	PCB CONGENER IUPAC #199 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19244	PCB CONGENER IUPAC #170/190 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19245	PCB CONGENER IUPAC #201 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19246	PCB CONGENER IUPAC #196/203 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19247	PCB CONGENER IUPAC #195/208 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19248	PCB CONGENER IUPAC #194 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19249	PCB CONGENER IUPAC #206 SOIL,TOTAL UG/KG	1	1	0	0	1	0
19253	PCB CONGENER IUPAC #18 TISSUE,WET WT UG/KG	2	2	0	0	1	0
31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	44	0	0	44	7	0
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	383	377	0	6	20	0
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	25	0	25	0	16	8
31633	E.COLI,THERMOTOL,MF,M-TEC,IN SITU UREASE #/100ML	1	1	0	0	1	0
31639	ENTEROCOCCI GROUP D,MF TRANS,M-E,EIA #/100ML	1	1	0	0	1	0
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	419	378	25	16	35	8
31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	47	0	0	47	7	0
32000	SAMPLE SIZE (LITERS)	2	2	0	0	2	0
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	21	21	0	0	8	3
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	75	36	27	12	30	0
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	62	36	26	0	25	0
34203	ACENAPHTHYLENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34208	ACENAPHTHENE DRY WGTBOTUG/KG	1	1	0	0	1	0

Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Parameter Code	Name	Total Obs	01/01/85 to 08/21/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
34223	ANTHRACENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34233	BENZO(B)FLUORANTHENE,SEDIMENTS,DRY WGT,UG/KG	1	1	0	0	1	0
34245	BENZO(K)FLUORANTHENE, DRY WT, SEDIMENT UG/KG	1	1	0	0	1	0
34323	CHRYSENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34367	ENDRIN ALDEHYDE DISSUG/L	2	2	0	0	2	0
34379	FLUORANTHENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34384	FLUORENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34406	INDENO (1,2,3-CD) PYRENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34464	PHENANTHRENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34472	PYRENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34480	THALLIUM DRY WGTBOTMG/KG	5	5	0	0	5	0
34536	1,2-DICHLOROBENZENE TOTWUG/L	2	2	0	0	2	0
34551	1,2,4-TRICHLOROBENZENE TOTWUG/L	2	2	0	0	2	0
34559	1,2,5,6-DIBENZANTHRACENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34571	1,4-DICHLOROBENZENE TOTWUG/L	2	2	0	0	2	0
34670	PCB - 1260 WET WGTTISMG/KG	25	25	0	0	6	0
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	62	6	56	0	5	0
34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	49	0	32	17	3	0
34684	DIELDRIN TISMG/KG	41	3	11	27	1	0
34685	ENDRIN WET WGTTISMG/KG	38	3	11	24	1	0
34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	3	3	0	0	1	0
34687	HEPTACHLOR WET WGTTISMG/KG	73	3	43	27	2	0
34688	HEXACHLOROBENZENE WET WGTTISMG/KG	14	3	11	0	1	0
34690	PCB - 1254 WET WGTTISMG/KG	40	8	32	0	6	0
34691	TOXAPHENE WET WGTTISMG/KG	45	12	13	20	5	0
39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	15	0	15	0	4	0
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	153	80	73	0	26	0
39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	24	3	21	0	3	0
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	179	122	57	0	11	0
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	179	122	57	0	11	0
39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	73	19	54	0	6	0
39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	72	19	53	0	6	0
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	46	5	34	7	4	0
39075	BHC- GAMMA ISOMER, TISSUE WET WGT (UG/G)	26	2	24	0	3	0
39105	PERCENT FAT HEXANE EXTRACTION	109	3	56	50	8	0
39250	NAPTHALENES, POLYCHLORINATED (UG/L)	15	0	15	0	4	0
39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	9	4	5	0	8	0
39290	DDT TOTAL IN TISSUE WET WGT BASIS (UG/G)	41	3	11	27	1	0
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	10	0	0	10	1	0
39302	P P DDT IN TISSUE WET WGT (UG/G)	199	108	73	18	13	0
39305	O,P' DDT IN WHOLE WATER SAMPLE (UG/L)	10	0	0	10	1	0
39307	O P DDT IN TISSUE WET WGT (UG/G)	181	108	73	0	11	0
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	10	0	0	10	1	0
39312	P P DDD IN TISSUE WET WGT (UG/G)	199	108	73	18	13	0
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	10	0	0	10	1	0
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	1	1	0	0	1	0
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	202	108	76	18	13	0
39325	O,P DDD IN TISSUE WET WGT (UG/G)	181	108	73	0	11	0
39329	O,P DDE IN TISSUE, WET WGT(UG/G)	149	108	41	0	10	0
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	25	0	15	10	5	0
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	9	4	5	0	8	0
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	2	2	0	0	2	0
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	15	0	15	0	4	0
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	9	4	5	0	8	0
39348	CHLORDANE, ALPHA, IN WHOLE WATER SAMPLE (UG/L)	11	1	0	10	2	0
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	15	0	15	0	4	0
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	9	4	5	0	8	0
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	15	0	15	0	4	0
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	9	4	5	0	8	0
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	15	0	15	0	4	0
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	9	4	5	0	8	0
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	15	0	15	0	4	0
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	9	4	5	0	8	0
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	27	2	15	10	7	0
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	9	4	5	0	8	0
39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	15	0	15	0	4	0
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	9	4	5	0	8	0
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	25	0	15	10	5	0
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	9	4	5	0	8	0
39397	ENDRIN IN SHELLFISH OR ANIMAL (UG/KG WET WEIGHT)	47	3	44	0	3	0
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	15	0	15	0	4	0

Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Parameter Code	Name	Total Obs	01/01/85 to 08/21/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	9	4	5	0	8	0
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	206	110	78	18	13	0
39407	TOXAPHENE IN FISH OR ANIMAL(UG/KG WET WEIGHT)	23	23	0	0	8	0
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	25	0	15	10	5	0
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	9	4	5	0	8	0
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	27	2	15	10	7	0
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	9	4	5	0	8	0
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	25	0	15	10	5	0
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	9	4	5	0	8	0
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	10	0	0	10	1	0
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	10	0	0	10	1	0
39515	PCBS (MG/KG) FISH TISSUE MG/KG	165	69	62	34	15	0
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	17	2	15	0	6	0
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	9	4	5	0	8	0
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	2	2	0	0	2	0
39703	HEXACHLOROBENZENE IN FISH OR ANIMALS WET WGT UG/K	26	2	24	0	3	0
39755	MIREX, TOTAL (UG/L)	15	0	15	0	4	0
39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	9	4	5	0	8	0
39781	LINDANE AQUATIC ORGANISMS WT WGT BASIS(UG/G)	3	3	0	0	1	0
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	12	2	0	10	3	0
39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	29	0	11	18	3	0
46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	259	259	0	0	8	3
49701	TRANSPARENCY, SECCHI DISK, WATER FT	25	25	0	0	1	0
61509	ZINC SLUDGE SOLID FRACTN,DRY WT,MG/KG	6	6	0	0	5	0
61515	NICKEL SLUDGE SOLID FRACTN,DRY WT,MG/KG	6	6	0	0	5	0
61521	ARSENIC SLUDGE SOLID FRACTN,DRY WT,MG/KG	5	5	0	0	5	0
61527	CADMIUM SLUDGE SOLID FRACTN,DRY WT,MG/KG	5	5	0	0	5	0
61536	NITROGEN, AMMONIUM,SLUDGE,SOLID,DRY WT, AS N,MG/KG	2	2	0	0	1	0
70151	SURFACE AREA OF LAKE OR RESERVOIR SQ KM	1	0	1	0	1	0
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	19	0	19	0	12	8
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	4	0	4	0	2	0
70302	SOLIDS, DISSOLVED-TONS PER DAY	3	0	3	0	1	0
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	4	0	4	0	2	0
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	259	259	0	0	8	3
70320	MOISTURE CONTENT (PERCENT OF TOTAL WET WEIGHT)	20	9	11	0	6	0
70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	6	6	0	0	5	0
70330	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .031MM	4	0	4	0	4	0
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	17	0	17	0	3	0
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	5	0	5	0	1	0
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	5	0	5	0	1	0
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	5	0	5	0	1	0
70335	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM	5	0	5	0	1	0
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	4	0	4	0	1	0
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	4	0	4	0	1	0
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	4	0	4	0	1	0
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	4	0	4	0	1	0
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	4	0	4	0	1	0
70971	LIGHT, ATTENUATION COEFFICIENT (ALPHA/M)	16	16	0	0	8	3
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	75	72	3	0	9	3
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	3	0	3	0	2	0
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	2	0	2	0	1	0
71885	IRON (UG/L AS FE)	1	0	1	0	1	0
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	78	0	78	0	22	1
71887	NITROGEN, TOTAL, AS NO3 - MG/L	1	0	1	0	1	0
71890	MERCURY, DISSOLVED (UG/L AS HG)	16	4	1	11	5	0
71895	MERCURY, SUSPENDED (UG/L AS HG)	1	0	1	0	1	0
71900	MERCURY, TOTAL (UG/L AS HG)	41	12	29	0	10	0
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	38	10	18	10	29	0
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	126	35	41	50	16	0
71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	92	81	11	0	13	0
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	66	8	35	23	9	0
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	58	6	33	19	7	0
71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	34	3	9	22	4	0
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	49	3	24	22	7	0
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	66	8	35	23	9	0
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	1	0	1	0	1	0
74010	IRON, TOTAL (MG/L AS FE)	1	0	1	0	1	0
77613	1,2,3-TRICHLOROBENZENE WHOLE WATER,UG/L	2	2	0	0	2	0
77736	1,2,3,4-TETRACHLOROBENZENE WHOLE WATER,UG/L	2	2	0	0	2	0
77793	PENTACHLOROBENZENE WHOLE WATER,UG/L	2	2	0	0	2	0
78679	PERYLENE IN SEDIMENT UG/KG	1	1	0	0	1	0

Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Parameter Code	Name	Total Obs	01/01/85 to 08/21/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
78828	BENZO(GHI)PERYLENE IN SEDIMENT DRY WEIGHT UG/KG	1	1	0	0	1	0
78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	103	103	0	0	10	0
78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	103	103	0	0	10	0
78926	FAT, PERCENT, IN TISSUE, WET WEIGHT %	175	126	49	0	11	0
78929	PCB 1254/1260, TISSUE, WET WEIGHT MG/KG	5	5	0	0	2	0
79178	PCB-1242 TISDRYWTMG/KG	11	0	2	9	1	0
79179	PCB-1254 TISDRYWTMG/KG	41	3	11	27	1	0
79182	PCB-1248 TISDRYWTMG/KG	14	3	11	0	1	0
79183	PCB-1260 TISDRYWTMG/KG	23	3	11	9	1	0
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	65	0	65	0	3	0
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	56	0	56	0	1	0
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	22	0	22	0	22	0
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	19	0	19	0	16	0
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	19	0	19	0	16	0
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	19	0	19	0	16	0
80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	17	0	17	0	14	0
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	13	0	13	0	10	0
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	8	0	8	0	5	0
80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	5	0	5	0	2	0
80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	5	0	5	0	2	0
80173	BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM	4	0	4	0	2	0
80174	BED MATERIAL SIEVE DIAMETER,% FINER THAN 64.0MM	1	0	1	0	1	0
80203	TOTAL SEDIMENT SIEVE DIAMETER,% FINER THAN .062MM	2	0	2	0	1	0
81024	DRAINAGE AREA IN SQUARE MILES (SQ. MI.)	1	0	1	0	1	0
81312	POLYCHLORINATEDBIPHENYLS FISH TISSUE WET WGT MG/KG	3	3	0	0	1	0
81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	11	6	5	0	7	0
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	276	152	54	70	22	0
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	64	2	44	18	5	0
81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	9	3	6	0	1	0
81760	O,P'-DDE IN FISH TISSUE WET WEIGHT MG/KG	32	0	32	0	1	0
81823	PENTACHLOROANISOLE(PCA)INFISH TISSUE WET WGT MG/KG	9	3	6	0	1	0
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	9	4	5	0	8	0
81896	DDE TOTAL IN TISSUE WET WEIGHT MG/KG	41	3	11	27	1	0
81944	DDT(INCLUDES DDE & DDD) IN TISSUE WET WEIGHT MG/KG	3	3	0	0	1	0
81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	10	10	0	0	7	0
81987	TOTAL SEDIMENT PARTICLE SIZE %COARSER THAN 9.00PHI	41	3	11	27	1	0
82004	DACTHAL IN TISSUE SAMPLE WET WEIGHT MG/KG	12	3	9	0	1	0
82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	44	3	41	0	2	0
82047	DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	1	0	1	0	1	0
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	259	259	0	0	8	3
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	1	0	1	0	1	0
82127	WIND SPEED KNOTS	259	259	0	0	8	3
82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	85	12	73	0	10	0
82398	SAMPLING METHOD (CODES)	27	0	27	0	21	8
84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	21	2	19	0	21	1
84001	AQUIFER NAME CODE (SEE USGS CATALOG)	21	2	19	0	21	1
84007	ANATOMY ALPHA CODE	256	131	54	71	20	0
84008	LIFE STYLE/HABITAT OF THEINDIVIDUALS IN THE SAMPLE	93	0	22	71	9	0
84014	SPECIES SEX CODE	97	97	0	0	8	0
85000	STREAM MILE, ACTUAL MILES	32	0	32	0	18	18
85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	15	0	5	10	14	0
85754	BENZO-A-PYRENE, SOIL, DRY WT, MG/KG	1	1	0	0	1	0
85755	BENZO(A)ANTHRACENE, SOIL, DRY WT, MG/KG	1	1	0	0	1	0

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0001	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/24/83-10/22/83	0	23	
APIS0002	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/21/73-11/27/73	0	32	
APIS0003	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/16/76-06/16/76	0	4	
APIS0004	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/17/87-05/07/89	1	12	
APIS0005	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/15/91-09/03/91	0	11	
APIS0006	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/06/90-05/06/90	0	4	
APIS0007	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/11/92-09/09/92	0	10	
APIS0008	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/07/89-05/07/89	0	4	
APIS0010	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	11/01/77-11/01/79	2	32	
APIS0011	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/09/88-08/04/92	3	9	
APIS0012	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/82-04/30/95	12	102	
APIS0013	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/10/86-09/22/87	1	10	
APIS0015	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/10/86-09/22/87	1	12	
APIS0016	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/11/96-08/20/96	0	27	
APIS0017	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/07/89-05/07/89	0	4	
APIS0019	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/06/90-09/07/90	0	11	
APIS0020	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/11/92-09/09/92	0	9	
APIS0021	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/16/86-05/07/89	2	13	
APIS0022	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/24/83-10/22/83	0	22	
APIS0023	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/25/73-09/15/73	0	17	
APIS0024	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/15/91-09/03/91	0	13	
APIS0025	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/10/96-08/20/96	0	44	
APIS0026	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/24/84-08/24/84	0	1	
APIS0027	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/11/96-08/20/96	0	29	
APIS0028	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/10/86-09/22/87	1	12	
APIS0029	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/24/84-08/24/84	0	1	
APIS0031	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/22/73-11/27/73	0	28	
APIS0032	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/24/83-10/22/83	0	20	
APIS0033	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/30/86-10/08/87	1	11	
APIS0039	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/10/96-08/20/96	0	39	
APIS0044	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/27/82-07/27/82	0	2	
APIS0045	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/27/82-07/27/82	0	2	
APIS0047	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/12/86-09/14/87	1	9	
APIS0051	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/27/82-07/27/82	0	2	
APIS0052	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/27/82-07/27/82	0	2	
APIS0053	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/27/82-07/27/82	0	2	
APIS0054	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/11/96-08/21/96	0	52	
APIS0055	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/27/82-07/27/82	0	2	
APIS0057	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/27/82-07/27/82	0	2	
APIS0058	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/27/82-07/27/82	0	2	
APIS0059	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/27/82-07/27/82	0	2	
APIS0060	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-11/05/70	2	16	
APIS0061	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/01/71-10/12/71	0	17	
APIS0062	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/25/93-06/25/93	0	4	
APIS0063	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/27/84-08/05/92	8	9	
APIS0064	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/28/92-08/29/95	3	5	
APIS0065	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/20/83-04/26/95	11	15	
APIS0075	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/83-07/25/83	0	1	
APIS0076	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/83-07/25/83	0	1	
APIS0077	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/83-07/25/83	0	1	
APIS0080	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/83-07/25/83	0	1	
APIS0082	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/83-07/25/83	0	1	
APIS0083	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/83-07/25/83	0	1	
APIS0086	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/83-07/25/83	0	1	
APIS0087	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/12/96-08/21/96	0	59	
APIS0088	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/21/81-07/26/82	1	8	
APIS0090	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/83-07/25/83	0	1	
APIS0092	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/83-07/25/83	0	1	
APIS0094	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/11/76-11/09/76	0	5	
APIS0095	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/16/85-05/16/85	0	2	
APIS0096	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/07/90-09/07/90	0	10	
APIS0097	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/16/86-05/07/89	2	16	
APIS0098	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/07/89-05/07/89	0	4	
APIS0099	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/22/73-11/27/73	0	29	
APIS0100	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/15/91-09/03/91	0	14	
APIS0101	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/11/92-09/09/92	0	11	
APIS0102	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/24/83-10/22/83	0	29	
APIS0118	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/21/81-07/27/82	1	8	
APIS0127	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/18/79-07/18/79	0	1	
APIS0134	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/30/70-09/17/74	4	17	
APIS0140	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/26/82-08/11/92	9	11	
APIS0142	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/29/85-05/02/89	3	3	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0143	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/20/88-08/06/92	4	10	
APIS0145	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/21/81-07/26/82	1	12	
APIS0147	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/22/70-06/22/70	0	9	
APIS0154	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	12/11/75-12/11/75	0	1	
APIS0156	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	12/11/75-12/11/75	0	1	
APIS0157	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	12/11/75-12/11/75	0	2	
APIS0158	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	12/11/75-12/11/75	0	1	
APIS0162	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/11/96-08/21/96	0	29	
APIS0163	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/22/78-09/14/88	10	33	
APIS0164	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/27/90-06/27/90	0	1	
APIS0167	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/27/90-06/27/90	0	1	
APIS0169	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/27/90-05/14/91	0	4	
APIS0174	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/10/70-08/08/74	4	32	
APIS0176	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/01/69-10/01/86	17	41	
APIS0178	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/12/70-08/12/70	0	14	
APIS0179	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	11/01/76-12/20/76	0	8	
APIS0181	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/26/90-06/26/90	0	1	
APIS0182	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/26/90-06/26/90	0	1	
APIS0188	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/22/81-07/26/82	1	8	
APIS0189	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	12/14/93-10/17/94	0	10	
APIS0193	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/07/92-04/28/93	0	3	
APIS0194	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/23/76-07/23/76	0	1	
APIS0195	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/06/90-09/07/90	0	12	
APIS0196	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/11/92-09/09/92	0	12	
APIS0197	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/16/76-06/16/76	0	5	
APIS0198	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/22/73-11/28/73	0	35	
APIS0199	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/24/83-10/21/83	0	24	
APIS0200	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/06/89-05/06/89	0	4	
APIS0201	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/16/86-05/06/89	2	13	
APIS0202	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/15/91-09/03/91	0	13	
APIS0203	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/12/96-08/21/96	0	52	
APIS0204	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/24/76-07/24/76	0	1	
APIS0205	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/16/76-06/16/76	0	5	
APIS0206	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/26/73-11/28/73	0	20	
APIS0207	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/28/76-07/29/76	0	2	
APIS0208	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/01/71-10/13/71	0	22	
APIS0209	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/27/68-11/05/70	2	27	
APIS0210	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/23/76-07/24/76	0	13	
APIS0211	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/23/85-03/31/87	1	24	
APIS0219	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/01/85-08/01/85	0	4	
APIS0222	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/17/83-04/23/87	3	19	
APIS0011	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	08/09/88-08/04/92	3	9	
APIS0012	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	10/23/82-04/30/95	12	102	
APIS0062	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/25/93-06/25/93	0	4	
APIS0063	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	07/27/84-08/05/92	8	9	
APIS0064	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	07/28/92-08/29/95	3	5	
APIS0065	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	10/20/83-04/26/95	11	15	
APIS0140	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	10/26/82-08/11/92	9	11	
APIS0142	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	07/29/85-05/02/89	3	3	
APIS0143	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	07/20/88-08/06/92	4	10	
APIS0163	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	08/22/78-09/14/88	10	33	
APIS0164	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/27/90-06/27/90	0	1	
APIS0167	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/27/90-06/27/90	0	1	
APIS0169	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/27/90-05/14/91	0	4	
APIS0181	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/26/90-06/26/90	0	1	
APIS0182	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/26/90-06/26/90	0	1	
APIS0189	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	12/14/93-10/17/94	0	10	
APIS0211	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	07/23/85-03/31/87	1	24	
APIS0219	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	08/01/85-08/01/85	0	4	
APIS0222	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/17/83-04/23/87	3	19	
APIS0001	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/24/83-10/22/83	0	19	
APIS0002	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/21/73-11/27/73	0	31	
APIS0003	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/76-06/16/76	0	4	
APIS0004	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/17/87-05/07/89	1	10	
APIS0005	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/91-09/03/91	0	2	
APIS0006	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/06/90-05/06/90	0	1	
APIS0007	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/11/92-09/09/92	0	2	
APIS0008	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/07/89-05/07/89	0	1	
APIS0013	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/10/86-09/22/87	1	10	
APIS0014	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/28/83-08/31/83	0	2	
APIS0015	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/10/86-09/22/87	1	12	
APIS0016	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/11/96-08/20/96	0	18	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0017	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/07/89-05/07/89	0	1	
APIS0018	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/28/83-07/28/83	0	1	
APIS0019	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/06/90-09/07/90	0	2	
APIS0020	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/11/92-09/09/92	0	2	
APIS0021	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/86-05/07/89	2	11	
APIS0022	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/24/83-10/22/83	0	18	
APIS0023	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/73-09/15/73	0	17	
APIS0024	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/91-09/03/91	0	2	
APIS0025	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/10/96-08/20/96	0	35	
APIS0026	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/24/84-08/24/84	0	1	
APIS0027	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/11/96-08/20/96	0	20	
APIS0028	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/10/86-09/22/87	1	12	
APIS0029	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/24/84-08/24/84	0	1	
APIS0030	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/06/80-08/06/80	0	1	
APIS0031	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/73-11/27/73	0	28	
APIS0032	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/24/83-10/22/83	0	16	
APIS0033	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/01/86-10/08/87	1	8	
APIS0034	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/84-07/17/84	0	1	
APIS0037	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/07/80-07/17/84	3	2	
APIS0038	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/81-09/09/81	0	2	
APIS0039	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/10/96-08/20/96	0	30	
APIS0042	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/08/80-07/17/84	3	2	
APIS0044	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-07/27/82	0	1	
APIS0045	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-07/27/82	0	1	
APIS0047	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/12/86-09/14/87	1	9	
APIS0050	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/07/80-08/07/80	0	1	
APIS0052	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-07/27/82	0	1	
APIS0053	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-07/27/82	0	1	
APIS0054	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/11/96-08/21/96	0	43	
APIS0055	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-07/27/82	0	1	
APIS0056	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/07/80-08/07/80	0	1	
APIS0057	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-07/27/82	0	1	
APIS0058	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-07/27/82	0	1	
APIS0059	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-07/27/82	0	1	
APIS0060	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-11/05/70	2	16	
APIS0061	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/01/71-10/12/71	0	17	
APIS0066	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/07/80-08/07/80	0	1	
APIS0067	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/81-09/09/81	0	2	
APIS0069	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/81-07/23/81	0	1	
APIS0070	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/07/80-08/07/80	0	1	
APIS0071	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/81-07/23/81	0	1	
APIS0075	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/83-07/25/83	0	1	
APIS0076	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/83-07/25/83	0	1	
APIS0077	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/83-07/25/83	0	1	
APIS0080	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/83-07/25/83	0	1	
APIS0082	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/83-07/25/83	0	1	
APIS0084	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/83-07/25/83	0	1	
APIS0086	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/83-07/25/83	0	1	
APIS0087	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/12/96-08/21/96	0	50	
APIS0088	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/21/81-07/26/82	1	6	
APIS0090	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/83-07/25/83	0	1	
APIS0091	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/81-09/09/81	0	2	
APIS0093	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/83-07/25/83	0	1	
APIS0095	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/85-05/16/85	0	2	
APIS0096	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/07/90-09/07/90	0	2	
APIS0097	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/86-05/07/89	2	14	
APIS0098	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/07/89-05/07/89	0	1	
APIS0099	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/73-11/27/73	0	28	
APIS0100	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/91-09/03/91	0	2	
APIS0101	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/11/92-09/09/92	0	2	
APIS0102	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/24/83-10/22/83	0	20	
APIS0103	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/84-07/18/84	0	1	
APIS0104	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-06/23/83	0	1	
APIS0105	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-07/18/84	1	2	
APIS0107	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/87-08/26/87	0	1	
APIS0108	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/87-08/26/87	0	1	
APIS0109	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/87-08/26/87	0	1	
APIS0111	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/87-08/26/87	0	1	
APIS0112	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/87-08/26/87	0	1	
APIS0113	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/87-08/26/87	0	1	
APIS0114	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-06/23/83	0	1	
APIS0115	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-06/23/83	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0117	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/84-06/23/84	0	1	
APIS0118	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/21/81-07/21/81	0	3	
APIS0119	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/84-07/18/84	0	1	
APIS0120	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-06/23/83	0	1	
APIS0121	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-07/18/84	1	2	
APIS0122	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-07/18/84	1	2	
APIS0123	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-07/18/84	1	2	
APIS0124	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/84-07/18/84	0	1	
APIS0125	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-06/23/83	0	1	
APIS0126	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/13/86-09/01/86	0	16	
APIS0128	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-07/18/84	1	2	
APIS0129	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-07/18/84	1	2	
APIS0130	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/84-07/18/84	0	1	
APIS0131	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-06/23/83	0	1	
APIS0132	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-07/18/84	1	2	
APIS0133	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-07/18/84	1	2	
APIS0135	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-07/18/84	1	2	
APIS0136	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-06/23/83	0	1	
APIS0137	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-07/18/84	1	2	
APIS0144	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/81-07/23/81	0	1	
APIS0145	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/21/81-07/26/82	1	9	
APIS0148	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/81-09/09/81	0	2	
APIS0151	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/81-09/09/81	0	2	
APIS0153	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/08/84-07/16/84	0	2	
APIS0155	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/81-09/09/81	0	2	
APIS0159	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/78-09/28/78	0	1	
APIS0162	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/11/96-08/21/96	0	20	
APIS0175	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/89-08/22/89	0	1	
APIS0177	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/08/84-07/16/84	0	2	
APIS0187	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/89-08/22/89	0	1	
APIS0188	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/81-07/26/82	1	6	
APIS0190	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/89-08/22/89	0	1	
APIS0191	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/10/80-07/16/84	4	10	
APIS0195	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/06/90-09/07/90	0	2	
APIS0196	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/11/92-09/09/92	0	2	
APIS0197	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/76-06/16/76	0	5	
APIS0198	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/73-11/28/73	0	33	
APIS0199	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/24/83-10/21/83	0	20	
APIS0200	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/06/89-05/06/89	0	1	
APIS0201	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/86-05/06/89	2	11	
APIS0202	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/91-09/03/91	0	2	
APIS0203	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/12/96-08/21/96	0	43	
APIS0205	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/76-06/16/76	0	5	
APIS0206	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/73-11/28/73	0	20	
APIS0208	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/01/71-10/13/71	0	22	
APIS0209	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/68-11/05/70	2	26	
APIS0212	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/84-11/01/84	0	1	
APIS0213	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/89-08/22/89	0	1	
APIS0010	No	00019	SAMPLE WEIGHT IN GRAMS	11/01/77-11/01/79	2	32	
APIS0153	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/08/84-06/08/84	0	1	
APIS0177	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/08/84-06/08/84	0	1	
APIS0191	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/22/83-06/08/84	0	2	
APIS0016	Yes	00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	06/11/96-08/20/96	0	18	
APIS0025	No	00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	06/10/96-08/20/96	0	35	
APIS0027	Yes	00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	06/11/96-08/20/96	0	20	
APIS0039	Yes	00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	06/10/96-08/20/96	0	30	
APIS0054	No	00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	06/11/96-08/21/96	0	43	
APIS0087	No	00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	06/12/96-08/21/96	0	50	
APIS0127	No	00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	07/18/79-07/18/79	0	1	
APIS0162	No	00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	06/11/96-08/21/96	0	20	
APIS0203	No	00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	06/12/96-08/21/96	0	43	
APIS0011	No	00023	SAMPLE WEIGHT IN POUNDS	08/09/88-08/04/92	3	9	
APIS0012	No	00023	SAMPLE WEIGHT IN POUNDS	10/23/82-04/30/95	12	101	T,A
APIS0062	No	00023	SAMPLE WEIGHT IN POUNDS	06/25/93-06/25/93	0	4	
APIS0063	No	00023	SAMPLE WEIGHT IN POUNDS	07/27/84-08/05/92	8	9	
APIS0064	No	00023	SAMPLE WEIGHT IN POUNDS	07/28/92-08/29/95	3	5	
APIS0065	No	00023	SAMPLE WEIGHT IN POUNDS	10/20/83-04/26/95	11	15	
APIS0140	No	00023	SAMPLE WEIGHT IN POUNDS	10/26/82-08/11/92	9	11	
APIS0142	No	00023	SAMPLE WEIGHT IN POUNDS	07/29/85-05/02/89	3	3	
APIS0143	No	00023	SAMPLE WEIGHT IN POUNDS	07/20/88-08/06/92	4	10	
APIS0163	No	00023	SAMPLE WEIGHT IN POUNDS	08/21/79-09/14/88	9	24	T,S
APIS0174	No	00023	SAMPLE WEIGHT IN POUNDS	08/08/74-08/08/74	0	2	

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Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0176	No	00023	SAMPLE WEIGHT IN POUNDS	10/01/69-10/01/84	15	38	T,S
APIS0211	No	00023	SAMPLE WEIGHT IN POUNDS	07/23/85-03/31/87	1	24	
APIS0219	No	00023	SAMPLE WEIGHT IN POUNDS	08/01/85-08/01/85	0	4	
APIS0222	No	00023	SAMPLE WEIGHT IN POUNDS	06/17/83-04/23/87	3	19	
APIS0010	No	00024	SAMPLE LENGTH IN INCHES	11/01/77-11/01/79	2	32	
APIS0011	No	00024	SAMPLE LENGTH IN INCHES	08/09/88-08/04/92	3	9	
APIS0012	No	00024	SAMPLE LENGTH IN INCHES	10/23/82-04/30/95	12	101	T,A
APIS0062	No	00024	SAMPLE LENGTH IN INCHES	06/25/93-06/25/93	0	4	
APIS0063	No	00024	SAMPLE LENGTH IN INCHES	07/27/84-08/05/92	8	9	
APIS0064	No	00024	SAMPLE LENGTH IN INCHES	07/28/92-08/29/95	3	5	
APIS0065	No	00024	SAMPLE LENGTH IN INCHES	10/20/83-04/26/95	11	15	
APIS0094	No	00024	SAMPLE LENGTH IN INCHES	08/11/76-11/09/76	0	5	
APIS0134	No	00024	SAMPLE LENGTH IN INCHES	06/30/70-09/17/74	4	17	
APIS0140	No	00024	SAMPLE LENGTH IN INCHES	10/26/82-08/11/92	9	11	
APIS0142	No	00024	SAMPLE LENGTH IN INCHES	07/29/85-05/02/89	3	3	
APIS0143	No	00024	SAMPLE LENGTH IN INCHES	07/20/88-08/06/92	4	10	
APIS0147	No	00024	SAMPLE LENGTH IN INCHES	06/22/70-06/22/70	0	9	
APIS0163	No	00024	SAMPLE LENGTH IN INCHES	08/22/78-09/14/88	10	33	T,S
APIS0174	No	00024	SAMPLE LENGTH IN INCHES	06/10/70-08/08/74	4	30	
APIS0176	No	00024	SAMPLE LENGTH IN INCHES	10/01/69-10/01/84	15	38	T,S
APIS0178	No	00024	SAMPLE LENGTH IN INCHES	08/12/70-08/12/70	0	14	
APIS0194	No	00024	SAMPLE LENGTH IN INCHES	07/23/76-07/23/76	0	1	
APIS0204	No	00024	SAMPLE LENGTH IN INCHES	07/24/76-07/24/76	0	1	
APIS0207	No	00024	SAMPLE LENGTH IN INCHES	07/28/76-07/29/76	0	2	
APIS0210	No	00024	SAMPLE LENGTH IN INCHES	07/23/76-07/24/76	0	13	
APIS0211	No	00024	SAMPLE LENGTH IN INCHES	07/23/85-03/31/87	1	24	
APIS0219	No	00024	SAMPLE LENGTH IN INCHES	08/01/85-08/01/85	0	4	
APIS0222	No	00024	SAMPLE LENGTH IN INCHES	06/17/83-04/23/87	3	19	
APIS0104	Yes	00025	BAROMETRIC PRESSURE (MM OF HG)	06/23/83-06/23/83	0	1	
APIS0120	Yes	00025	BAROMETRIC PRESSURE (MM OF HG)	06/23/83-06/23/83	0	1	
APIS0125	Yes	00025	BAROMETRIC PRESSURE (MM OF HG)	06/23/83-06/23/83	0	1	
APIS0153	No	00025	BAROMETRIC PRESSURE (MM OF HG)	07/16/84-07/16/84	0	1	
APIS0177	No	00025	BAROMETRIC PRESSURE (MM OF HG)	07/16/84-07/16/84	0	1	
APIS0191	No	00025	BAROMETRIC PRESSURE (MM OF HG)	06/22/83-07/16/84	1	2	
APIS0014	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/28/83-08/31/83	0	2	
APIS0018	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/28/83-07/28/83	0	1	
APIS0026	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/24/84-08/24/84	0	1	
APIS0029	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/24/84-08/24/84	0	1	
APIS0041	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/29/83-11/02/83	0	3	
APIS0044	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/27/82-07/27/82	0	2	
APIS0045	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/27/82-07/27/82	0	2	
APIS0051	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/27/82-07/27/82	0	2	
APIS0052	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/27/82-07/27/82	0	2	
APIS0053	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/27/82-07/27/82	0	2	
APIS0055	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/27/82-07/27/82	0	2	
APIS0057	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/27/82-07/27/82	0	2	
APIS0058	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/27/82-07/27/82	0	2	
APIS0059	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/27/82-07/27/82	0	2	
APIS0075	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/25/83-07/25/83	0	1	
APIS0076	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/25/83-07/25/83	0	1	
APIS0077	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/25/83-07/25/83	0	1	
APIS0080	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/25/83-07/25/83	0	1	
APIS0082	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/25/83-07/25/83	0	1	
APIS0083	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/25/83-07/25/83	0	1	
APIS0086	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/25/83-07/25/83	0	1	
APIS0088	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/26/82-07/26/82	0	4	
APIS0090	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/25/83-07/25/83	0	1	
APIS0092	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/25/83-07/25/83	0	1	
APIS0104	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	06/23/83-06/23/83	0	1	
APIS0106	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/22/86-07/22/86	0	1	
APIS0107	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/22/86-08/26/87	1	2	
APIS0108	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/22/86-08/26/87	1	2	
APIS0109	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/22/86-08/26/87	1	2	
APIS0110	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/22/86-07/22/86	0	1	
APIS0111	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/22/86-08/26/87	1	2	
APIS0112	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/22/86-08/26/87	1	2	
APIS0113	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/22/86-08/26/87	1	2	
APIS0118	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/27/82-07/27/82	0	4	
APIS0120	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	06/23/83-06/23/83	0	1	
APIS0125	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	06/23/83-06/23/83	0	1	
APIS0131	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	06/23/83-06/23/83	0	1	
APIS0145	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/26/82-07/26/82	0	4	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0153	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	06/08/84-07/16/84	0	2	
APIS0175	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/22/89-08/22/89	0	1	
APIS0177	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	06/08/84-07/16/84	0	2	
APIS0187	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/22/89-08/22/89	0	1	
APIS0188	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/26/82-07/26/82	0	4	
APIS0190	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/22/89-08/22/89	0	1	
APIS0191	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	03/26/82-07/16/84	2	65	
APIS0213	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/22/89-08/22/89	0	1	
APIS0014	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/28/83-08/31/83	0	2	
APIS0018	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/28/83-07/28/83	0	1	
APIS0026	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/24/84-08/24/84	0	1	
APIS0029	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/24/84-08/24/84	0	1	
APIS0038	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/23/81-07/23/81	0	1	
APIS0041	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/09/81-11/02/83	2	4	
APIS0044	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/27/82-07/27/82	0	2	
APIS0045	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/27/82-07/27/82	0	2	
APIS0051	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/27/82-07/27/82	0	2	
APIS0052	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/27/82-07/27/82	0	2	
APIS0053	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/27/82-07/27/82	0	2	
APIS0055	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/27/82-07/27/82	0	2	
APIS0057	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/27/82-07/27/82	0	2	
APIS0058	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/27/82-07/27/82	0	2	
APIS0059	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/27/82-07/27/82	0	2	
APIS0067	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/23/81-07/23/81	0	1	
APIS0069	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/23/81-07/23/81	0	1	
APIS0071	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/23/81-07/23/81	0	1	
APIS0075	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/25/83-07/25/83	0	1	
APIS0076	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/25/83-07/25/83	0	1	
APIS0077	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/25/83-07/25/83	0	1	
APIS0080	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/25/83-07/25/83	0	1	
APIS0082	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/25/83-07/25/83	0	1	
APIS0083	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/25/83-07/25/83	0	1	
APIS0086	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/25/83-07/25/83	0	1	
APIS0088	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/21/81-07/26/82	1	8	
APIS0090	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/25/83-07/25/83	0	1	
APIS0091	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/23/81-07/23/81	0	1	
APIS0092	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/25/83-07/25/83	0	1	
APIS0104	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/23/83-06/23/83	0	1	
APIS0106	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/22/86-07/22/86	0	1	
APIS0107	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/22/86-08/26/87	1	2	
APIS0108	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/22/86-08/26/87	1	2	
APIS0109	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/22/86-08/26/87	1	2	
APIS0110	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/22/86-07/22/86	0	1	
APIS0111	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/22/86-08/26/87	1	2	
APIS0112	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/22/86-08/26/87	1	2	
APIS0113	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/22/86-08/26/87	1	2	
APIS0118	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/21/81-07/27/82	1	8	
APIS0120	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/23/83-06/23/83	0	1	
APIS0125	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/23/83-06/23/83	0	1	
APIS0131	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/23/83-06/23/83	0	1	
APIS0134	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/12/70-08/12/70	0	6	
APIS0144	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/23/81-07/23/81	0	1	
APIS0145	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/21/81-07/26/82	1	12	
APIS0147	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/22/70-06/22/70	0	9	
APIS0148	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/23/81-07/23/81	0	1	
APIS0151	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/23/81-07/23/81	0	1	
APIS0153	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/08/84-07/16/84	0	2	
APIS0155	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/23/81-07/23/81	0	1	
APIS0159	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/28/78-09/28/78	0	1	
APIS0174	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/10/70-06/10/70	0	7	
APIS0175	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/22/89-08/22/89	0	1	
APIS0177	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/08/84-07/16/84	0	2	
APIS0178	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/12/70-08/12/70	0	9	
APIS0187	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/22/89-08/22/89	0	1	
APIS0188	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/22/81-07/26/82	1	8	
APIS0190	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/22/89-08/22/89	0	1	
APIS0191	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/11/80-07/16/84	3	68	
APIS0213	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/22/89-08/22/89	0	1	
APIS0002	No	00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	05/21/73-11/27/73	0	18	
APIS0003	No	00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	06/16/76-06/16/76	0	1	
APIS0023	No	00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	06/25/73-09/15/73	0	11	
APIS0031	No	00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	05/22/73-11/27/73	0	16	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0099	No	00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	05/22/73-11/27/73	0	15	
APIS0197	No	00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	06/16/76-06/16/76	0	1	
APIS0198	No	00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	05/22/73-11/28/73	0	20	
APIS0206	No	00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	06/26/73-09/16/73	0	11	
APIS0127	No	00032	CLOUD COVER (PERCENT)	07/18/79-07/18/79	0	1	
APIS0030	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/06/80-08/06/80	0	1	
APIS0034	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/07/80-07/17/84	3	2	
APIS0037	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/07/80-07/17/84	3	2	
APIS0050	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/07/80-08/07/80	0	1	
APIS0056	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/07/80-08/07/80	0	1	
APIS0066	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/07/80-08/07/80	0	1	
APIS0068	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/07/80-07/17/84	3	2	
APIS0070	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/07/80-08/07/80	0	1	
APIS0103	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/18/84-07/18/84	0	1	
APIS0104	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-06/23/83	0	1	
APIS0105	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-07/18/84	1	2	
APIS0114	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-07/18/84	1	2	
APIS0115	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-07/18/84	1	2	
APIS0117	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/84-07/18/84	0	2	
APIS0119	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/18/84-07/18/84	0	1	
APIS0120	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-06/23/83	0	1	
APIS0121	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-07/18/84	1	2	
APIS0122	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-07/18/84	1	2	
APIS0123	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-07/18/84	1	2	
APIS0124	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/18/84-07/18/84	0	1	
APIS0125	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-06/23/83	0	1	
APIS0128	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-07/18/84	1	2	
APIS0129	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-07/18/84	1	2	
APIS0130	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/18/84-07/18/84	0	1	
APIS0131	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-06/23/83	0	1	
APIS0132	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-07/18/84	1	2	
APIS0133	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-07/18/84	1	2	
APIS0135	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-07/18/84	1	2	
APIS0136	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-07/18/84	1	2	
APIS0137	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-07/18/84	1	2	
APIS0153	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/08/84-07/16/84	0	2	
APIS0177	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/08/84-07/16/84	0	2	
APIS0191	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	01/10/80-07/16/84	4	70	
APIS0191	No	00065	STAGE, STREAM (FEET)	06/22/83-06/22/83	0	1	
APIS0073	No	00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	07/25/83-07/25/83	0	1	
APIS0074	No	00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	07/25/83-07/25/83	0	1	
APIS0078	No	00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	07/25/83-07/25/83	0	1	
APIS0079	No	00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	07/25/83-07/25/83	0	1	
APIS0081	No	00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	07/25/83-07/25/83	0	1	
APIS0084	No	00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	07/25/83-07/25/83	0	1	
APIS0085	No	00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	07/25/83-07/25/83	0	1	
APIS0089	No	00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	07/25/83-07/25/83	0	1	
APIS0093	No	00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	07/25/83-07/25/83	0	1	
APIS0016	Yes	00069	SEA WAVES(0=NONE;1=0-3";2=4-20";3=21-48";4=4-8')	06/11/96-08/20/96	0	18	
APIS0025	No	00069	SEA WAVES(0=NONE;1=0-3";2=4-20";3=21-48";4=4-8')	06/10/96-08/20/96	0	35	
APIS0027	Yes	00069	SEA WAVES(0=NONE;1=0-3";2=4-20";3=21-48";4=4-8')	06/11/96-08/20/96	0	20	
APIS0039	Yes	00069	SEA WAVES(0=NONE;1=0-3";2=4-20";3=21-48";4=4-8')	06/10/96-08/20/96	0	30	
APIS0054	No	00069	SEA WAVES(0=NONE;1=0-3";2=4-20";3=21-48";4=4-8')	06/11/96-08/21/96	0	43	
APIS0087	No	00069	SEA WAVES(0=NONE;1=0-3";2=4-20";3=21-48";4=4-8')	06/12/96-08/21/96	0	50	
APIS0162	No	00069	SEA WAVES(0=NONE;1=0-3";2=4-20";3=21-48";4=4-8')	06/11/96-08/21/96	0	20	
APIS0203	No	00069	SEA WAVES(0=NONE;1=0-3";2=4-20";3=21-48";4=4-8')	06/12/96-08/21/96	0	43	
APIS0002	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/21/73-11/27/73	0	25	
APIS0003	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/16/76-06/16/76	0	3	
APIS0023	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/25/73-09/15/73	0	14	
APIS0031	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/22/73-11/27/73	0	21	
APIS0060	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	08/26/68-11/05/70	2	12	
APIS0061	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/01/71-10/12/71	0	14	
APIS0099	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/22/73-11/27/73	0	23	
APIS0197	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/16/76-06/16/76	0	4	
APIS0198	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/22/73-11/28/73	0	27	
APIS0205	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/16/76-06/16/76	0	4	
APIS0206	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/26/73-09/16/73	0	15	
APIS0208	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/01/71-10/13/71	0	19	
APIS0209	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	08/27/68-11/05/70	2	22	
APIS0126	Yes	00072	STAGE, STREAM (METERS)	05/13/86-09/08/86	0	17	
APIS0127	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/18/79-07/18/79	0	1	
APIS0159	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/28/78-09/28/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0189	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	12/14/93-10/17/94	0	10	
APIS0127	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	07/18/79-07/18/79	0	1	
APIS0001	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/24/83-06/28/83	0	2	
APIS0002	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/21/73-09/15/73	0	4	
APIS0005	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/15/91-05/15/91	0	1	
APIS0006	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/06/90-05/06/90	0	1	
APIS0007	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/11/92-09/09/92	0	2	
APIS0016	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	06/11/96-07/10/96	0	2	
APIS0019	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/06/90-05/06/90	0	1	
APIS0020	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/11/92-05/11/92	0	1	
APIS0021	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/16/86-05/16/86	0	1	
APIS0022	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/24/83-09/07/83	0	3	
APIS0023	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	06/25/73-08/05/73	0	2	
APIS0024	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/15/91-05/15/91	0	1	
APIS0025	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	06/10/96-08/20/96	0	3	
APIS0027	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	06/11/96-08/20/96	0	3	
APIS0032	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/24/83-06/28/83	0	2	
APIS0039	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	06/10/96-08/20/96	0	3	
APIS0054	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	06/11/96-08/21/96	0	3	
APIS0060	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/26/68-09/20/70	2	3	
APIS0061	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	10/12/71-10/12/71	0	1	
APIS0087	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	06/12/96-08/21/96	0	3	
APIS0095	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/16/85-05/16/85	0	1	
APIS0097	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/16/86-05/16/86	0	1	
APIS0099	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/22/73-11/27/73	0	2	
APIS0100	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/15/91-05/15/91	0	1	
APIS0101	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/11/92-09/09/92	0	2	
APIS0102	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/24/83-06/28/83	0	2	
APIS0162	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	06/11/96-08/21/96	0	3	
APIS0196	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/11/92-05/11/92	0	1	
APIS0197	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	06/16/76-06/16/76	0	1	
APIS0198	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	10/24/73-10/24/73	0	1	
APIS0199	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	06/28/83-06/28/83	0	1	
APIS0200	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/06/89-05/06/89	0	1	
APIS0201	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/16/86-05/06/89	2	3	
APIS0202	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/15/91-05/15/91	0	1	
APIS0203	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	06/12/96-08/21/96	0	3	
APIS0205	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	06/16/76-06/16/76	0	1	
APIS0206	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	10/24/73-10/24/73	0	1	
APIS0209	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/27/68-11/05/70	2	4	
APIS0212	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	11/01/84-11/01/84	0	1	
APIS0001	No	00079	COLOR, WATER (FOREL-ULE SCALE)	05/24/83-06/28/83	0	2	
APIS0002	No	00079	COLOR, WATER (FOREL-ULE SCALE)	05/21/73-09/15/73	0	4	
APIS0005	No	00079	COLOR, WATER (FOREL-ULE SCALE)	05/15/91-05/15/91	0	1	
APIS0006	No	00079	COLOR, WATER (FOREL-ULE SCALE)	05/06/90-05/06/90	0	1	
APIS0007	No	00079	COLOR, WATER (FOREL-ULE SCALE)	05/11/92-09/09/92	0	2	
APIS0019	No	00079	COLOR, WATER (FOREL-ULE SCALE)	05/06/90-05/06/90	0	1	
APIS0020	No	00079	COLOR, WATER (FOREL-ULE SCALE)	05/11/92-05/11/92	0	1	
APIS0021	No	00079	COLOR, WATER (FOREL-ULE SCALE)	05/16/86-05/16/86	0	1	
APIS0022	No	00079	COLOR, WATER (FOREL-ULE SCALE)	05/24/83-09/07/83	0	3	
APIS0023	No	00079	COLOR, WATER (FOREL-ULE SCALE)	06/25/73-08/05/73	0	2	
APIS0024	No	00079	COLOR, WATER (FOREL-ULE SCALE)	05/15/91-05/15/91	0	1	
APIS0032	No	00079	COLOR, WATER (FOREL-ULE SCALE)	05/24/83-06/28/83	0	2	
APIS0060	No	00079	COLOR, WATER (FOREL-ULE SCALE)	08/26/68-09/20/70	2	3	
APIS0061	No	00079	COLOR, WATER (FOREL-ULE SCALE)	10/12/71-10/12/71	0	1	
APIS0095	No	00079	COLOR, WATER (FOREL-ULE SCALE)	05/16/85-05/16/85	0	1	
APIS0097	No	00079	COLOR, WATER (FOREL-ULE SCALE)	05/16/86-05/16/86	0	1	
APIS0099	No	00079	COLOR, WATER (FOREL-ULE SCALE)	05/22/73-11/27/73	0	2	
APIS0100	No	00079	COLOR, WATER (FOREL-ULE SCALE)	05/15/91-05/15/91	0	1	
APIS0101	No	00079	COLOR, WATER (FOREL-ULE SCALE)	05/11/92-09/09/92	0	2	
APIS0102	No	00079	COLOR, WATER (FOREL-ULE SCALE)	05/24/83-06/28/83	0	2	
APIS0196	No	00079	COLOR, WATER (FOREL-ULE SCALE)	05/11/92-05/11/92	0	1	
APIS0197	No	00079	COLOR, WATER (FOREL-ULE SCALE)	06/16/76-06/16/76	0	1	
APIS0198	No	00079	COLOR, WATER (FOREL-ULE SCALE)	10/24/73-10/24/73	0	1	
APIS0199	No	00079	COLOR, WATER (FOREL-ULE SCALE)	06/28/83-06/28/83	0	1	
APIS0200	No	00079	COLOR, WATER (FOREL-ULE SCALE)	05/06/89-05/06/89	0	1	
APIS0201	No	00079	COLOR, WATER (FOREL-ULE SCALE)	05/16/86-05/06/89	2	3	
APIS0202	No	00079	COLOR, WATER (FOREL-ULE SCALE)	05/15/91-05/15/91	0	1	
APIS0205	No	00079	COLOR, WATER (FOREL-ULE SCALE)	06/16/76-06/16/76	0	1	
APIS0206	No	00079	COLOR, WATER (FOREL-ULE SCALE)	10/24/73-10/24/73	0	1	
APIS0209	No	00079	COLOR, WATER (FOREL-ULE SCALE)	08/27/68-11/05/70	2	4	
APIS0212	No	00080	COLOR (PLATINUM-COBALT UNITS)	11/01/84-11/01/84	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0013	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/10/86-09/22/87	1	10	
APIS0015	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/10/86-09/22/87	1	12	
APIS0016	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/11/96-08/20/96	0	18	
APIS0025	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/10/96-08/20/96	0	35	
APIS0027	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/11/96-08/20/96	0	20	
APIS0028	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/10/86-09/22/87	1	11	
APIS0033	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/30/86-10/08/87	1	11	
APIS0039	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/10/96-08/20/96	0	30	
APIS0047	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/86-09/14/87	1	8	
APIS0054	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/11/96-08/21/96	0	43	
APIS0087	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/12/96-08/21/96	0	50	
APIS0126	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/13/86-09/08/86	0	14	
APIS0162	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/11/96-08/21/96	0	20	
APIS0203	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/12/96-08/21/96	0	43	
APIS0001	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/24/83-10/22/83	0	15	
APIS0003	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/16/76-06/16/76	0	3	
APIS0004	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/17/87-05/17/87	0	1	
APIS0005	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/91-09/03/91	0	6	
APIS0006	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/06/90-05/06/90	0	1	
APIS0007	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/11/92-09/09/92	0	5	
APIS0014	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/28/83-08/31/83	0	2	
APIS0018	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/28/83-07/28/83	0	1	
APIS0019	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/06/90-09/07/90	0	5	
APIS0020	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/11/92-09/09/92	0	4	
APIS0021	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/86-05/17/87	1	2	
APIS0022	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/24/83-10/22/83	0	14	
APIS0024	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/91-09/03/91	0	7	
APIS0030	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/06/80-08/06/80	0	1	
APIS0032	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/24/83-10/22/83	0	12	
APIS0034	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/84-07/17/84	0	1	
APIS0037	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/80-07/17/84	3	2	
APIS0038	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/23/81-07/23/81	0	1	
APIS0042	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/08/80-07/17/84	3	2	
APIS0044	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-07/27/82	0	1	
APIS0045	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-07/27/82	0	1	
APIS0050	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/80-08/07/80	0	1	
APIS0051	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-07/27/82	0	1	
APIS0052	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-07/27/82	0	1	
APIS0053	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-07/27/82	0	1	
APIS0055	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-07/27/82	0	1	
APIS0056	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/80-08/07/80	0	1	
APIS0057	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-07/27/82	0	1	
APIS0058	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-07/27/82	0	1	
APIS0059	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-07/27/82	0	1	
APIS0060	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-11/05/70	2	12	
APIS0061	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/01/71-10/12/71	0	14	
APIS0066	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/80-08/07/80	0	1	
APIS0067	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/23/81-07/23/81	0	1	
APIS0068	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/84-07/17/84	0	1	
APIS0069	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/23/81-07/23/81	0	1	
APIS0070	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/80-08/07/80	0	1	
APIS0071	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/23/81-07/23/81	0	1	
APIS0075	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/25/83-07/25/83	0	1	
APIS0076	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/25/83-07/25/83	0	1	
APIS0077	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/25/83-07/25/83	0	1	
APIS0080	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/25/83-07/25/83	0	1	
APIS0082	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/25/83-07/25/83	0	1	
APIS0084	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/25/83-07/25/83	0	1	
APIS0086	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/25/83-07/25/83	0	1	
APIS0088	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/21/81-07/21/81	0	3	
APIS0090	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/25/83-07/25/83	0	1	
APIS0091	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/23/81-07/23/81	0	1	
APIS0093	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/25/83-07/25/83	0	1	
APIS0095	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/85-05/16/85	0	1	
APIS0096	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/07/90-09/07/90	0	4	
APIS0097	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/86-05/17/87	1	2	
APIS0100	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/91-09/03/91	0	7	
APIS0101	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/11/92-09/09/92	0	6	
APIS0102	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/24/83-10/22/83	0	16	
APIS0103	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/18/84-07/18/84	0	1	
APIS0104	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-06/23/83	0	1	
APIS0105	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM 25C)	06/23/83-07/18/84	1	2	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0111	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/87-08/26/87	0	1	
APIS0113	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/87-08/26/87	0	1	
APIS0114	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-06/23/83	0	1	
APIS0115	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-06/23/83	0	1	
APIS0117	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/84-06/23/84	0	1	
APIS0118	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/21/81-07/21/81	0	3	
APIS0119	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/18/84-07/18/84	0	1	
APIS0120	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-06/23/83	0	1	
APIS0121	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-07/18/84	1	2	
APIS0122	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-07/18/84	1	2	
APIS0123	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-07/18/84	1	2	
APIS0124	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/18/84-07/18/84	0	1	
APIS0125	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-06/23/83	0	1	
APIS0127	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/18/79-07/18/79	0	1	
APIS0128	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-07/18/84	1	2	
APIS0129	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-07/18/84	1	2	
APIS0130	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/18/84-07/18/84	0	1	
APIS0131	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-06/23/83	0	1	
APIS0132	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-07/18/84	1	2	
APIS0133	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-07/18/84	1	2	
APIS0135	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-07/18/84	1	2	
APIS0136	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-06/23/83	0	1	
APIS0137	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-07/18/84	1	2	
APIS0144	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/23/81-07/23/81	0	1	
APIS0145	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/21/81-07/21/81	0	6	
APIS0148	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/23/81-07/23/81	0	1	
APIS0151	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/23/81-07/23/81	0	1	
APIS0153	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/08/84-07/16/84	0	2	
APIS0155	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/23/81-07/23/81	0	1	
APIS0159	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/78-09/28/78	0	1	
APIS0175	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/89-08/22/89	0	1	
APIS0177	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/08/84-07/16/84	0	2	
APIS0187	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/89-08/22/89	0	1	
APIS0188	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/22/81-07/22/81	0	3	
APIS0190	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/89-08/22/89	0	1	
APIS0191	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/10/80-07/16/84	4	10	
APIS0195	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/06/90-09/07/90	0	6	
APIS0196	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/11/92-09/09/92	0	6	
APIS0197	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/16/76-06/16/76	0	4	
APIS0199	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/24/83-10/21/83	0	16	
APIS0201	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/86-05/16/87	1	2	
APIS0202	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/91-09/03/91	0	7	
APIS0205	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/16/76-06/16/76	0	4	
APIS0208	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/01/71-10/13/71	0	19	
APIS0209	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/68-11/05/70	2	22	
APIS0212	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/84-11/01/84	0	1	
APIS0213	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/89-08/22/89	0	1	
APIS0182	No	00102	PERCENT SUSPENDED SOLIDS ON 14U FILTER %	06/26/90-06/26/90	0	1	
APIS0009	No	00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	05/26/86-09/07/87	1	41	
APIS0036	No	00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	05/13/86-08/23/88	2	80	
APIS0040	No	00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	05/13/86-09/11/87	1	74	
APIS0072	No	00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	05/16/86-09/11/87	1	54	
APIS0146	No	00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	08/23/88-08/23/88	0	1	
APIS0149	No	00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	08/23/88-08/23/88	0	1	
APIS0150	No	00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	08/23/88-08/23/88	0	1	
APIS0152	No	00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	08/23/88-08/23/88	0	1	
APIS0160	No	00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	05/26/87-09/04/87	0	21	
APIS0161	No	00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	06/08/87-09/04/87	0	19	
APIS0165	No	00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	08/23/88-08/23/88	0	1	
APIS0186	No	00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	05/13/86-09/11/87	1	54	
APIS0212	No	00154	SULFATE (AS S) WHOLE WATER, MG/L	11/01/84-11/01/84	0	1	
APIS0001	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/24/83-10/22/83	0	15	
APIS0004	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/17/87-05/07/89	1	2	
APIS0013	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/10/86-06/24/87	1	6	
APIS0015	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/10/86-06/24/87	1	6	
APIS0016	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/11/96-08/20/96	0	18	
APIS0021	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/16/86-05/07/89	2	3	
APIS0022	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/24/83-10/22/83	0	10	
APIS0025	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/10/96-08/20/96	0	35	
APIS0027	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/11/96-08/20/96	0	20	
APIS0028	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/10/86-06/24/87	1	9	
APIS0032	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/24/83-10/22/83	0	12	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0033	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	09/01/86-10/08/87	1	8	
APIS0039	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/10/96-08/20/96	0	30	
APIS0047	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/12/86-09/14/87	1	9	
APIS0054	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/11/96-08/21/96	0	43	
APIS0087	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/12/96-08/21/96	0	50	
APIS0095	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/16/85-05/16/85	0	1	
APIS0097	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/16/86-05/07/89	2	3	
APIS0102	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/24/83-10/22/83	0	16	
APIS0162	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/11/96-08/21/96	0	20	
APIS0199	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/24/83-10/21/83	0	16	
APIS0201	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/16/86-05/06/89	2	3	
APIS0203	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/12/96-08/21/96	0	43	
APIS0002	No	00300	OXYGEN, DISSOLVED MG/L	05/21/73-11/27/73	0	25	
APIS0003	No	00300	OXYGEN, DISSOLVED MG/L	06/16/76-06/16/76	0	3	
APIS0005	No	00300	OXYGEN, DISSOLVED MG/L	05/15/91-09/03/91	0	6	
APIS0006	No	00300	OXYGEN, DISSOLVED MG/L	05/06/90-05/06/90	0	1	
APIS0007	No	00300	OXYGEN, DISSOLVED MG/L	05/11/92-09/09/92	0	5	
APIS0008	No	00300	OXYGEN, DISSOLVED MG/L	05/07/89-05/07/89	0	1	
APIS0014	Yes	00300	OXYGEN, DISSOLVED MG/L	07/28/83-07/28/83	0	1	
APIS0017	No	00300	OXYGEN, DISSOLVED MG/L	05/07/89-05/07/89	0	1	
APIS0018	Yes	00300	OXYGEN, DISSOLVED MG/L	07/28/83-07/28/83	0	1	
APIS0019	No	00300	OXYGEN, DISSOLVED MG/L	05/06/90-09/07/90	0	5	
APIS0020	No	00300	OXYGEN, DISSOLVED MG/L	05/11/92-09/09/92	0	4	
APIS0023	No	00300	OXYGEN, DISSOLVED MG/L	06/25/73-09/15/73	0	14	
APIS0024	No	00300	OXYGEN, DISSOLVED MG/L	05/15/91-09/03/91	0	7	
APIS0026	Yes	00300	OXYGEN, DISSOLVED MG/L	08/24/84-08/24/84	0	1	
APIS0029	Yes	00300	OXYGEN, DISSOLVED MG/L	08/24/84-08/24/84	0	1	
APIS0030	Yes	00300	OXYGEN, DISSOLVED MG/L	08/06/80-08/06/80	0	1	
APIS0031	No	00300	OXYGEN, DISSOLVED MG/L	05/22/73-11/27/73	0	21	
APIS0034	Yes	00300	OXYGEN, DISSOLVED MG/L	07/17/84-07/17/84	0	1	
APIS0037	Yes	00300	OXYGEN, DISSOLVED MG/L	08/07/80-07/17/84	3	2	
APIS0038	No	00300	OXYGEN, DISSOLVED MG/L	09/09/81-09/09/81	0	1	
APIS0042	Yes	00300	OXYGEN, DISSOLVED MG/L	08/08/80-07/17/84	3	2	
APIS0050	Yes	00300	OXYGEN, DISSOLVED MG/L	08/07/80-08/07/80	0	1	
APIS0056	Yes	00300	OXYGEN, DISSOLVED MG/L	08/07/80-08/07/80	0	1	
APIS0060	No	00300	OXYGEN, DISSOLVED MG/L	08/26/68-11/05/70	2	12	
APIS0061	No	00300	OXYGEN, DISSOLVED MG/L	06/01/71-10/12/71	0	14	
APIS0066	Yes	00300	OXYGEN, DISSOLVED MG/L	08/07/80-08/07/80	0	1	
APIS0067	No	00300	OXYGEN, DISSOLVED MG/L	09/09/81-09/09/81	0	1	
APIS0068	Yes	00300	OXYGEN, DISSOLVED MG/L	07/17/84-07/17/84	0	1	
APIS0070	Yes	00300	OXYGEN, DISSOLVED MG/L	08/07/80-08/07/80	0	1	
APIS0075	No	00300	OXYGEN, DISSOLVED MG/L	07/25/83-07/25/83	0	1	
APIS0076	No	00300	OXYGEN, DISSOLVED MG/L	07/25/83-07/25/83	0	1	
APIS0077	No	00300	OXYGEN, DISSOLVED MG/L	07/25/83-07/25/83	0	1	
APIS0080	No	00300	OXYGEN, DISSOLVED MG/L	07/25/83-07/25/83	0	1	
APIS0082	No	00300	OXYGEN, DISSOLVED MG/L	07/25/83-07/25/83	0	1	
APIS0086	No	00300	OXYGEN, DISSOLVED MG/L	07/25/83-07/25/83	0	1	
APIS0090	No	00300	OXYGEN, DISSOLVED MG/L	07/25/83-07/25/83	0	1	
APIS0091	No	00300	OXYGEN, DISSOLVED MG/L	09/09/81-09/09/81	0	1	
APIS0096	No	00300	OXYGEN, DISSOLVED MG/L	05/07/90-09/07/90	0	4	
APIS0098	No	00300	OXYGEN, DISSOLVED MG/L	05/07/89-05/07/89	0	1	
APIS0099	No	00300	OXYGEN, DISSOLVED MG/L	05/22/73-11/27/73	0	23	
APIS0100	No	00300	OXYGEN, DISSOLVED MG/L	05/15/91-09/03/91	0	7	
APIS0101	No	00300	OXYGEN, DISSOLVED MG/L	05/11/92-09/09/92	0	6	
APIS0103	Yes	00300	OXYGEN, DISSOLVED MG/L	07/18/84-07/18/84	0	1	
APIS0104	Yes	00300	OXYGEN, DISSOLVED MG/L	06/23/83-06/23/83	0	1	
APIS0105	Yes	00300	OXYGEN, DISSOLVED MG/L	06/23/83-07/18/84	1	2	
APIS0114	Yes	00300	OXYGEN, DISSOLVED MG/L	06/23/83-06/23/83	0	1	
APIS0115	Yes	00300	OXYGEN, DISSOLVED MG/L	06/23/83-06/23/83	0	1	
APIS0117	Yes	00300	OXYGEN, DISSOLVED MG/L	06/23/84-06/23/84	0	1	
APIS0119	Yes	00300	OXYGEN, DISSOLVED MG/L	07/18/84-07/18/84	0	1	
APIS0120	Yes	00300	OXYGEN, DISSOLVED MG/L	06/23/83-06/23/83	0	1	
APIS0121	Yes	00300	OXYGEN, DISSOLVED MG/L	06/23/83-07/18/84	1	2	
APIS0122	Yes	00300	OXYGEN, DISSOLVED MG/L	06/23/83-07/18/84	1	2	
APIS0123	Yes	00300	OXYGEN, DISSOLVED MG/L	06/23/83-07/18/84	1	2	
APIS0124	Yes	00300	OXYGEN, DISSOLVED MG/L	07/18/84-07/18/84	0	1	
APIS0125	Yes	00300	OXYGEN, DISSOLVED MG/L	06/23/83-06/23/83	0	1	
APIS0127	No	00300	OXYGEN, DISSOLVED MG/L	07/18/79-07/18/79	0	1	
APIS0128	Yes	00300	OXYGEN, DISSOLVED MG/L	06/23/83-07/18/84	1	2	
APIS0129	Yes	00300	OXYGEN, DISSOLVED MG/L	06/23/83-07/18/84	1	2	
APIS0130	Yes	00300	OXYGEN, DISSOLVED MG/L	07/18/84-07/18/84	0	1	
APIS0131	Yes	00300	OXYGEN, DISSOLVED MG/L	06/23/83-06/23/83	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0132	Yes	00300	OXYGEN, DISSOLVED MG/L	06/23/83-07/18/84	1	2	
APIS0133	Yes	00300	OXYGEN, DISSOLVED MG/L	06/23/83-07/18/84	1	2	
APIS0135	Yes	00300	OXYGEN, DISSOLVED MG/L	06/23/83-07/18/84	1	2	
APIS0136	Yes	00300	OXYGEN, DISSOLVED MG/L	06/23/83-06/23/83	0	1	
APIS0137	Yes	00300	OXYGEN, DISSOLVED MG/L	06/23/83-07/18/84	1	2	
APIS0148	No	00300	OXYGEN, DISSOLVED MG/L	09/09/81-09/09/81	0	1	
APIS0151	No	00300	OXYGEN, DISSOLVED MG/L	09/09/81-09/09/81	0	1	
APIS0153	No	00300	OXYGEN, DISSOLVED MG/L	07/16/84-07/16/84	0	1	
APIS0155	No	00300	OXYGEN, DISSOLVED MG/L	09/09/81-09/09/81	0	1	
APIS0159	No	00300	OXYGEN, DISSOLVED MG/L	09/28/78-09/28/78	0	1	
APIS0177	No	00300	OXYGEN, DISSOLVED MG/L	07/16/84-07/16/84	0	1	
APIS0191	No	00300	OXYGEN, DISSOLVED MG/L	06/22/83-07/16/84	1	2	
APIS0195	No	00300	OXYGEN, DISSOLVED MG/L	05/06/90-09/07/90	0	6	
APIS0196	No	00300	OXYGEN, DISSOLVED MG/L	05/11/92-09/09/92	0	6	
APIS0197	No	00300	OXYGEN, DISSOLVED MG/L	06/16/76-06/16/76	0	4	
APIS0198	No	00300	OXYGEN, DISSOLVED MG/L	05/22/73-11/28/73	0	27	
APIS0200	No	00300	OXYGEN, DISSOLVED MG/L	05/06/89-05/06/89	0	1	
APIS0202	No	00300	OXYGEN, DISSOLVED MG/L	05/15/91-09/03/91	0	7	
APIS0205	No	00300	OXYGEN, DISSOLVED MG/L	06/16/76-06/16/76	0	4	
APIS0206	No	00300	OXYGEN, DISSOLVED MG/L	06/26/73-09/16/73	0	15	
APIS0208	No	00300	OXYGEN, DISSOLVED MG/L	06/01/71-10/13/71	0	19	
APIS0209	No	00300	OXYGEN, DISSOLVED MG/L	08/27/68-11/05/70	2	22	
APIS0001	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/24/83-10/22/83	0	15	
APIS0002	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/21/73-11/27/73	0	25	
APIS0003	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/16/76-06/16/76	0	3	
APIS0004	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/17/87-05/07/89	1	2	
APIS0005	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/15/91-09/03/91	0	6	
APIS0006	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/06/90-05/06/90	0	1	
APIS0007	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/11/92-09/09/92	0	5	
APIS0008	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/07/89-05/07/89	0	1	
APIS0017	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/07/89-05/07/89	0	1	
APIS0019	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/06/90-09/07/90	0	5	
APIS0020	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/11/92-09/09/92	0	4	
APIS0021	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/16/86-05/07/89	2	3	
APIS0022	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/24/83-10/22/83	0	10	
APIS0023	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/25/73-09/15/73	0	14	
APIS0024	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/15/91-09/03/91	0	7	
APIS0031	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/22/73-11/27/73	0	21	
APIS0032	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/24/83-10/22/83	0	12	
APIS0038	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/81-09/09/81	0	1	
APIS0061	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	10/12/71-10/12/71	0	4	
APIS0067	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/81-09/09/81	0	1	
APIS0091	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/81-09/09/81	0	1	
APIS0095	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/16/85-05/16/85	0	1	
APIS0096	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/07/90-09/07/90	0	4	
APIS0097	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/16/86-05/07/89	2	3	
APIS0098	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/07/89-05/07/89	0	1	
APIS0099	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/26/73-11/27/73	0	18	
APIS0100	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/15/91-09/03/91	0	7	
APIS0101	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/11/92-09/09/92	0	6	
APIS0102	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/24/83-10/22/83	0	16	
APIS0148	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/81-09/09/81	0	1	
APIS0151	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/81-09/09/81	0	1	
APIS0155	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/81-09/09/81	0	1	
APIS0195	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/06/90-09/07/90	0	6	
APIS0196	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/11/92-09/09/92	0	6	
APIS0197	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/16/76-06/16/76	0	4	
APIS0198	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/22/73-11/28/73	0	27	
APIS0199	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/24/83-10/21/83	0	16	
APIS0200	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/06/89-05/06/89	0	1	
APIS0201	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/16/86-05/06/89	2	3	
APIS0202	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/15/91-09/03/91	0	7	
APIS0205	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/16/76-06/16/76	0	4	
APIS0206	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/26/73-09/16/73	0	15	
APIS0208	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	10/13/71-10/13/71	0	7	
APIS0179	No	00312	BOD, 6 DAY, 20 DEG C MG/L	11/08/76-11/29/76	0	5	
APIS0154	No	00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	12/11/75-12/11/75	0	1	
APIS0156	No	00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	12/11/75-12/11/75	0	1	
APIS0157	No	00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	12/11/75-12/11/75	0	2	
APIS0158	No	00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	12/11/75-12/11/75	0	1	
APIS0166	No	00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	09/14/72-09/14/72	0	1	
APIS0170	No	00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	09/14/72-09/14/72	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0171	No	00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	09/14/72-09/14/72	0	1	
APIS0172	No	00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	09/14/72-09/14/72	0	1	
APIS0173	No	00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	09/14/72-09/14/72	0	1	
APIS0214	No	00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	09/14/72-09/14/72	0	1	
APIS0215	No	00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	09/14/72-09/14/72	0	1	
APIS0216	No	00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	09/14/72-09/14/72	0	1	
APIS0217	No	00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	09/14/72-09/14/72	0	1	
APIS0218	No	00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	09/14/72-09/14/72	0	1	
APIS0001	No	00400	PH (STANDARD UNITS)	05/24/83-10/22/83	0	15	
APIS0003	No	00400	PH (STANDARD UNITS)	06/16/76-06/16/76	0	3	
APIS0004	No	00400	PH (STANDARD UNITS)	05/17/87-05/07/89	1	2	
APIS0005	No	00400	PH (STANDARD UNITS)	05/15/91-09/03/91	0	6	
APIS0006	No	00400	PH (STANDARD UNITS)	05/06/90-05/06/90	0	1	
APIS0007	No	00400	PH (STANDARD UNITS)	05/11/92-09/09/92	0	5	
APIS0008	No	00400	PH (STANDARD UNITS)	05/07/89-05/07/89	0	1	
APIS0014	Yes	00400	PH (STANDARD UNITS)	07/28/83-08/31/83	0	2	
APIS0017	No	00400	PH (STANDARD UNITS)	05/07/89-05/07/89	0	1	
APIS0018	Yes	00400	PH (STANDARD UNITS)	07/28/83-07/28/83	0	1	
APIS0019	No	00400	PH (STANDARD UNITS)	05/06/90-09/07/90	0	5	
APIS0020	No	00400	PH (STANDARD UNITS)	05/11/92-09/09/92	0	4	
APIS0021	No	00400	PH (STANDARD UNITS)	05/16/86-05/07/89	2	3	
APIS0022	No	00400	PH (STANDARD UNITS)	05/24/83-10/22/83	0	14	
APIS0024	No	00400	PH (STANDARD UNITS)	05/15/91-09/03/91	0	7	
APIS0026	Yes	00400	PH (STANDARD UNITS)	08/24/84-08/24/84	0	1	
APIS0029	Yes	00400	PH (STANDARD UNITS)	08/24/84-08/24/84	0	1	
APIS0030	Yes	00400	PH (STANDARD UNITS)	08/06/80-08/06/80	0	1	
APIS0032	No	00400	PH (STANDARD UNITS)	05/24/83-10/22/83	0	11	
APIS0034	Yes	00400	PH (STANDARD UNITS)	07/17/84-07/17/84	0	1	
APIS0037	Yes	00400	PH (STANDARD UNITS)	08/07/80-07/17/84	3	2	
APIS0038	No	00400	PH (STANDARD UNITS)	07/23/81-07/23/81	0	1	
APIS0042	Yes	00400	PH (STANDARD UNITS)	08/08/80-07/17/84	3	2	
APIS0044	No	00400	PH (STANDARD UNITS)	07/27/82-07/27/82	0	1	
APIS0045	No	00400	PH (STANDARD UNITS)	07/27/82-07/27/82	0	1	
APIS0050	Yes	00400	PH (STANDARD UNITS)	08/07/80-08/07/80	0	1	
APIS0051	No	00400	PH (STANDARD UNITS)	07/27/82-07/27/82	0	1	
APIS0052	No	00400	PH (STANDARD UNITS)	07/27/82-07/27/82	0	1	
APIS0053	No	00400	PH (STANDARD UNITS)	07/27/82-07/27/82	0	1	
APIS0055	No	00400	PH (STANDARD UNITS)	07/27/82-07/27/82	0	1	
APIS0056	Yes	00400	PH (STANDARD UNITS)	08/07/80-08/07/80	0	1	
APIS0057	No	00400	PH (STANDARD UNITS)	07/27/82-07/27/82	0	1	
APIS0058	No	00400	PH (STANDARD UNITS)	07/27/82-07/27/82	0	1	
APIS0060	No	00400	PH (STANDARD UNITS)	08/26/68-08/26/68	0	2	
APIS0061	No	00400	PH (STANDARD UNITS)	06/01/71-10/12/71	0	14	
APIS0066	Yes	00400	PH (STANDARD UNITS)	08/07/80-08/07/80	0	1	
APIS0067	No	00400	PH (STANDARD UNITS)	07/23/81-07/23/81	0	1	
APIS0068	Yes	00400	PH (STANDARD UNITS)	07/17/84-07/17/84	0	1	
APIS0069	No	00400	PH (STANDARD UNITS)	07/23/81-07/23/81	0	1	
APIS0070	Yes	00400	PH (STANDARD UNITS)	08/07/80-08/07/80	0	1	
APIS0071	No	00400	PH (STANDARD UNITS)	07/23/81-07/23/81	0	1	
APIS0075	No	00400	PH (STANDARD UNITS)	07/25/83-07/25/83	0	1	
APIS0076	No	00400	PH (STANDARD UNITS)	07/25/83-07/25/83	0	1	
APIS0077	No	00400	PH (STANDARD UNITS)	07/25/83-07/25/83	0	1	
APIS0080	No	00400	PH (STANDARD UNITS)	07/25/83-07/25/83	0	1	
APIS0082	No	00400	PH (STANDARD UNITS)	07/25/83-07/25/83	0	1	
APIS0084	No	00400	PH (STANDARD UNITS)	07/25/83-07/25/83	0	1	
APIS0086	No	00400	PH (STANDARD UNITS)	07/25/83-07/25/83	0	1	
APIS0088	No	00400	PH (STANDARD UNITS)	07/21/81-07/26/82	1	6	
APIS0090	No	00400	PH (STANDARD UNITS)	07/25/83-07/25/83	0	1	
APIS0091	No	00400	PH (STANDARD UNITS)	07/23/81-07/23/81	0	1	
APIS0093	No	00400	PH (STANDARD UNITS)	07/25/83-07/25/83	0	1	
APIS0095	No	00400	PH (STANDARD UNITS)	05/16/85-05/16/85	0	1	
APIS0096	No	00400	PH (STANDARD UNITS)	05/07/90-09/07/90	0	4	
APIS0097	No	00400	PH (STANDARD UNITS)	05/16/86-05/07/89	2	3	
APIS0098	No	00400	PH (STANDARD UNITS)	05/07/89-05/07/89	0	1	
APIS0100	No	00400	PH (STANDARD UNITS)	05/15/91-09/03/91	0	7	
APIS0101	No	00400	PH (STANDARD UNITS)	05/11/92-09/09/92	0	6	
APIS0102	No	00400	PH (STANDARD UNITS)	05/24/83-10/22/83	0	16	
APIS0103	Yes	00400	PH (STANDARD UNITS)	07/18/84-07/18/84	0	1	
APIS0104	Yes	00400	PH (STANDARD UNITS)	06/23/83-06/23/83	0	1	
APIS0105	Yes	00400	PH (STANDARD UNITS)	06/23/83-07/18/84	1	2	
APIS0111	No	00400	PH (STANDARD UNITS)	08/26/87-08/26/87	0	1	
APIS0113	No	00400	PH (STANDARD UNITS)	08/26/87-08/26/87	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0114	Yes	00400	PH (STANDARD UNITS)	06/23/83-06/23/83	0	1	
APIS0115	Yes	00400	PH (STANDARD UNITS)	06/23/83-06/23/83	0	1	
APIS0117	Yes	00400	PH (STANDARD UNITS)	06/23/84-06/23/84	0	1	
APIS0118	No	00400	PH (STANDARD UNITS)	07/21/81-07/21/81	0	3	
APIS0119	Yes	00400	PH (STANDARD UNITS)	07/18/84-07/18/84	0	1	
APIS0120	Yes	00400	PH (STANDARD UNITS)	06/23/83-06/23/83	0	1	
APIS0121	Yes	00400	PH (STANDARD UNITS)	06/23/83-07/18/84	1	2	
APIS0122	Yes	00400	PH (STANDARD UNITS)	06/23/83-07/18/84	1	2	
APIS0123	Yes	00400	PH (STANDARD UNITS)	06/23/83-07/18/84	1	2	
APIS0124	Yes	00400	PH (STANDARD UNITS)	07/18/84-07/18/84	0	1	
APIS0125	Yes	00400	PH (STANDARD UNITS)	06/23/83-06/23/83	0	1	
APIS0128	Yes	00400	PH (STANDARD UNITS)	06/23/83-07/18/84	1	2	
APIS0129	Yes	00400	PH (STANDARD UNITS)	06/23/83-07/18/84	1	2	
APIS0130	Yes	00400	PH (STANDARD UNITS)	07/18/84-07/18/84	0	1	
APIS0131	Yes	00400	PH (STANDARD UNITS)	06/23/83-06/23/83	0	1	
APIS0132	Yes	00400	PH (STANDARD UNITS)	06/23/83-07/18/84	1	2	
APIS0133	Yes	00400	PH (STANDARD UNITS)	06/23/83-07/18/84	1	2	
APIS0135	Yes	00400	PH (STANDARD UNITS)	06/23/83-07/18/84	1	2	
APIS0136	Yes	00400	PH (STANDARD UNITS)	06/23/83-06/23/83	0	1	
APIS0137	Yes	00400	PH (STANDARD UNITS)	06/23/83-07/18/84	1	2	
APIS0144	Yes	00400	PH (STANDARD UNITS)	07/23/81-07/23/81	0	1	
APIS0145	No	00400	PH (STANDARD UNITS)	07/21/81-07/26/82	1	9	
APIS0148	No	00400	PH (STANDARD UNITS)	07/23/81-07/23/81	0	1	
APIS0151	No	00400	PH (STANDARD UNITS)	07/23/81-07/23/81	0	1	
APIS0153	No	00400	PH (STANDARD UNITS)	06/08/84-07/16/84	0	2	
APIS0155	No	00400	PH (STANDARD UNITS)	07/23/81-07/23/81	0	1	
APIS0159	No	00400	PH (STANDARD UNITS)	09/28/78-09/28/78	0	1	
APIS0177	No	00400	PH (STANDARD UNITS)	06/08/84-07/16/84	0	2	
APIS0188	No	00400	PH (STANDARD UNITS)	07/22/81-07/26/82	1	6	
APIS0191	No	00400	PH (STANDARD UNITS)	06/22/83-07/16/84	1	3	
APIS0195	No	00400	PH (STANDARD UNITS)	05/06/90-09/07/90	0	6	
APIS0196	No	00400	PH (STANDARD UNITS)	05/11/92-09/09/92	0	6	
APIS0197	No	00400	PH (STANDARD UNITS)	06/16/76-06/16/76	0	4	
APIS0199	No	00400	PH (STANDARD UNITS)	05/24/83-10/21/83	0	16	
APIS0200	No	00400	PH (STANDARD UNITS)	05/06/89-05/06/89	0	1	
APIS0201	No	00400	PH (STANDARD UNITS)	05/16/86-05/06/89	2	3	
APIS0202	No	00400	PH (STANDARD UNITS)	05/15/91-09/03/91	0	7	
APIS0205	No	00400	PH (STANDARD UNITS)	06/16/76-06/16/76	0	4	
APIS0208	No	00400	PH (STANDARD UNITS)	06/01/71-10/13/71	0	19	
APIS0014	Yes	00403	PH, LAB, STANDARD UNITS SU	07/28/83-07/28/83	0	1	
APIS0018	Yes	00403	PH, LAB, STANDARD UNITS SU	07/28/83-07/28/83	0	1	
APIS0026	Yes	00403	PH, LAB, STANDARD UNITS SU	08/24/84-08/24/84	0	1	
APIS0029	Yes	00403	PH, LAB, STANDARD UNITS SU	08/24/84-08/24/84	0	1	
APIS0104	Yes	00403	PH, LAB, STANDARD UNITS SU	06/23/83-06/23/83	0	1	
APIS0120	Yes	00403	PH, LAB, STANDARD UNITS SU	06/23/83-06/23/83	0	1	
APIS0125	Yes	00403	PH, LAB, STANDARD UNITS SU	06/23/83-06/23/83	0	1	
APIS0127	No	00403	PH, LAB, STANDARD UNITS SU	07/18/79-07/18/79	0	1	
APIS0131	Yes	00403	PH, LAB, STANDARD UNITS SU	06/23/83-06/23/83	0	1	
APIS0153	No	00403	PH, LAB, STANDARD UNITS SU	06/08/84-07/16/84	0	2	
APIS0177	No	00403	PH, LAB, STANDARD UNITS SU	06/08/84-07/16/84	0	2	
APIS0191	No	00403	PH, LAB, STANDARD UNITS SU	04/14/82-07/16/84	2	6	
APIS0212	No	00403	PH, LAB, STANDARD UNITS SU	11/01/84-11/01/84	0	1	
APIS0013	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/10/86-09/22/87	1	10	
APIS0015	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/10/86-09/22/87	1	10	
APIS0016	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/11/96-08/20/96	0	18	
APIS0025	No	00406	PH, FIELD, STANDARD UNITS SU	06/10/96-08/20/96	0	35	
APIS0027	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/11/96-08/20/96	0	20	
APIS0028	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/10/86-09/22/87	1	11	
APIS0033	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/30/86-10/08/87	1	9	
APIS0039	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/10/96-08/20/96	0	30	
APIS0047	No	00406	PH, FIELD, STANDARD UNITS SU	08/12/86-09/14/87	1	6	
APIS0054	No	00406	PH, FIELD, STANDARD UNITS SU	06/11/96-08/21/96	0	43	
APIS0087	No	00406	PH, FIELD, STANDARD UNITS SU	06/12/96-08/21/96	0	50	
APIS0126	Yes	00406	PH, FIELD, STANDARD UNITS SU	05/13/86-09/08/86	0	17	
APIS0162	No	00406	PH, FIELD, STANDARD UNITS SU	06/11/96-08/21/96	0	20	
APIS0203	No	00406	PH, FIELD, STANDARD UNITS SU	06/12/96-08/21/96	0	43	
APIS0212	No	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	11/01/84-11/01/84	0	1	
APIS0002	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/21/73-11/27/73	0	20	
APIS0003	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/16/76-06/16/76	0	3	
APIS0013	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/10/86-09/22/87	1	6	
APIS0014	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/31/83-08/31/83	0	1	
APIS0015	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/15/86-06/24/87	0	5	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0023	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/05/73-09/15/73	0	9	
APIS0028	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/10/86-09/22/87	1	9	
APIS0031	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/22/73-11/27/73	0	17	
APIS0033	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/30/86-10/08/87	1	8	
APIS0034	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/17/84-07/17/84	0	1	
APIS0037	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/17/84-07/17/84	0	1	
APIS0042	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/17/84-07/17/84	0	1	
APIS0047	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/12/86-08/12/86	0	3	
APIS0060	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/26/68-08/26/68	0	2	
APIS0061	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/01/71-10/12/71	0	14	
APIS0068	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/17/84-07/17/84	0	1	
APIS0099	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/22/73-11/27/73	0	18	
APIS0103	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	0	1	
APIS0105	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	0	1	
APIS0119	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	0	1	
APIS0121	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	0	1	
APIS0122	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	0	1	
APIS0123	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	0	1	
APIS0124	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	0	1	
APIS0126	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/13/86-09/08/86	0	17	
APIS0127	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/79-07/18/79	0	1	
APIS0128	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	0	1	
APIS0129	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	0	1	
APIS0130	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	0	1	
APIS0132	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	0	1	
APIS0133	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	0	1	
APIS0135	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	0	1	
APIS0137	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	0	1	
APIS0153	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/16/84-07/16/84	0	1	
APIS0159	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/28/78-09/28/78	0	1	
APIS0177	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/16/84-07/16/84	0	1	
APIS0191	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/16/84-07/16/84	0	1	
APIS0197	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/16/76-06/16/76	0	4	
APIS0198	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/22/73-11/28/73	0	22	
APIS0205	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/16/76-06/16/76	0	4	
APIS0206	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/06/73-09/16/73	0	10	
APIS0208	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/01/71-10/13/71	0	19	
APIS0060	No	00440	BICARBONATE ION (MG/L AS HCO3)	11/23/69-11/23/69	0	2	
APIS0061	No	00440	BICARBONATE ION (MG/L AS HCO3)	06/01/71-10/12/71	0	5	
APIS0208	No	00440	BICARBONATE ION (MG/L AS HCO3)	06/01/71-10/13/71	0	6	
APIS0169	No	00495	MOISTURE CONTENT (PERCENT OF TOTAL DRY WEIGHT)	05/14/91-05/14/91	0	1	
APIS0189	No	00500	RESIDUE, TOTAL (MG/L)	12/14/93-01/24/94	0	2	
APIS0060	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/26/68-08/26/68	0	2	
APIS0095	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/16/85-05/16/85	0	1	
APIS0179	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/01/76-12/20/76	0	7	
APIS0189	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/28/94-10/17/94	0	8	
APIS0191	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/23/81-02/23/81	0	1	
APIS0035	No	00553	OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,MG/KG	07/31/86-07/30/87	0	2	
APIS0166	No	00553	OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,MG/KG	09/14/72-09/14/72	0	1	
APIS0170	No	00553	OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,MG/KG	09/14/72-09/14/72	0	1	
APIS0171	No	00553	OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,MG/KG	09/14/72-09/14/72	0	1	
APIS0172	No	00553	OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,MG/KG	09/14/72-09/14/72	0	1	
APIS0173	No	00553	OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,MG/KG	09/14/72-09/14/72	0	1	
APIS0214	No	00553	OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,MG/KG	09/14/72-09/14/72	0	1	
APIS0215	No	00553	OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,MG/KG	09/14/72-09/14/72	0	1	
APIS0216	No	00553	OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,MG/KG	09/14/72-09/14/72	0	1	
APIS0217	No	00553	OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,MG/KG	09/14/72-09/14/72	0	1	
APIS0218	No	00553	OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,MG/KG	09/14/72-09/14/72	0	1	
APIS0041	No	00557	OIL & GREASE,SED,DRY WT,FREON EXTR-GRAV METH,MG/KG	09/09/81-11/02/83	2	4	
APIS0154	No	00557	OIL & GREASE,SED,DRY WT,FREON EXTR-GRAV METH,MG/KG	12/11/75-12/11/75	0	1	
APIS0156	No	00557	OIL & GREASE,SED,DRY WT,FREON EXTR-GRAV METH,MG/KG	12/11/75-12/11/75	0	1	
APIS0157	No	00557	OIL & GREASE,SED,DRY WT,FREON EXTR-GRAV METH,MG/KG	12/11/75-12/11/75	0	2	
APIS0158	No	00557	OIL & GREASE,SED,DRY WT,FREON EXTR-GRAV METH,MG/KG	12/11/75-12/11/75	0	1	
APIS0164	No	00557	OIL & GREASE,SED,DRY WT,FREON EXTR-GRAV METH,MG/KG	06/27/90-06/27/90	0	1	
APIS0167	No	00557	OIL & GREASE,SED,DRY WT,FREON EXTR-GRAV METH,MG/KG	06/27/90-06/27/90	0	1	
APIS0169	No	00557	OIL & GREASE,SED,DRY WT,FREON EXTR-GRAV METH,MG/KG	06/27/90-06/27/90	0	1	
APIS0181	No	00557	OIL & GREASE,SED,DRY WT,FREON EXTR-GRAV METH,MG/KG	06/26/90-06/26/90	0	1	
APIS0182	No	00557	OIL & GREASE,SED,DRY WT,FREON EXTR-GRAV METH,MG/KG	06/26/90-06/26/90	0	1	
APIS0127	No	00600	NITROGEN, TOTAL (MG/L AS N)	07/18/79-07/18/79	0	1	
APIS0159	No	00600	NITROGEN, TOTAL (MG/L AS N)	09/28/78-09/28/78	0	1	
APIS0001	No	00601	NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	05/24/83-10/22/83	0	4	
APIS0004	No	00601	NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	05/17/87-05/07/89	1	2	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0021	No	00601	NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	05/17/87-05/07/89	1	2	
APIS0022	No	00601	NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	05/24/83-10/22/83	0	4	
APIS0032	No	00601	NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	05/24/83-10/22/83	0	4	
APIS0095	No	00601	NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	05/16/85-05/16/85	0	1	
APIS0097	No	00601	NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	05/17/87-05/07/89	1	2	
APIS0102	No	00601	NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	05/24/83-10/22/83	0	10	
APIS0199	No	00601	NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	05/24/83-10/21/83	0	4	
APIS0201	No	00601	NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	05/16/87-05/06/89	1	2	
APIS0061	No	00602	NITROGEN, DISSOLVED (MG/L AS N)	10/12/71-10/12/71	0	4	
APIS0191	No	00602	NITROGEN, DISSOLVED (MG/L AS N)	04/14/82-04/15/82	0	2	
APIS0208	No	00602	NITROGEN, DISSOLVED (MG/L AS N)	10/13/71-10/13/71	0	7	
APIS0005	No	00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/15/91-09/03/91	0	2	
APIS0006	No	00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/06/90-05/06/90	0	1	
APIS0007	No	00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/11/92-09/09/92	0	2	
APIS0008	No	00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/07/89-05/07/89	0	1	
APIS0017	No	00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/07/89-05/07/89	0	1	
APIS0019	No	00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/06/90-09/07/90	0	2	
APIS0020	No	00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/11/92-09/09/92	0	2	
APIS0024	No	00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/15/91-09/03/91	0	2	
APIS0096	No	00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/07/90-09/07/90	0	2	
APIS0098	No	00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/07/89-05/07/89	0	1	
APIS0100	No	00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/15/91-09/03/91	0	3	
APIS0101	No	00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/11/92-09/09/92	0	2	
APIS0195	No	00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/06/90-09/07/90	0	2	
APIS0196	No	00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/11/92-09/09/92	0	2	
APIS0200	No	00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/06/89-05/06/89	0	1	
APIS0202	No	00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/15/91-09/03/91	0	2	
APIS0061	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	06/01/71-06/01/71	0	5	
APIS0127	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	07/18/79-07/18/79	0	1	
APIS0159	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	09/28/78-09/28/78	0	1	
APIS0208	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	06/01/71-06/01/71	0	6	
APIS0191	No	00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	04/14/82-09/15/82	0	3	
APIS0001	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/24/83-10/22/83	0	15	
APIS0002	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/21/73-11/27/73	0	25	
APIS0003	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	06/16/76-06/16/76	0	3	
APIS0004	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/17/87-05/07/89	1	2	
APIS0005	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/15/91-05/15/91	0	1	
APIS0006	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/06/90-05/06/90	0	1	
APIS0007	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/11/92-05/11/92	0	1	
APIS0008	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/07/89-05/07/89	0	1	
APIS0017	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/07/89-05/07/89	0	1	
APIS0019	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/06/90-05/06/90	0	1	
APIS0020	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/11/92-05/11/92	0	1	
APIS0021	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/16/86-05/07/89	2	3	
APIS0022	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/24/83-10/22/83	0	14	
APIS0023	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	06/25/73-09/15/73	0	14	
APIS0024	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/15/91-05/15/91	0	1	
APIS0031	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/22/73-11/27/73	0	21	
APIS0032	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/24/83-10/22/83	0	12	
APIS0061	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	06/01/71-10/12/71	0	14	
APIS0095	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/16/85-05/16/85	0	1	
APIS0096	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/07/90-05/07/90	0	1	
APIS0097	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/16/86-05/07/89	2	3	
APIS0098	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/07/89-05/07/89	0	1	
APIS0099	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/22/73-11/27/73	0	23	
APIS0100	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/15/91-05/15/91	0	1	
APIS0101	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/11/92-05/11/92	0	1	
APIS0102	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/24/83-10/22/83	0	16	
APIS0127	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	07/18/79-07/18/79	0	1	
APIS0153	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	06/08/84-07/16/84	0	2	
APIS0177	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	06/08/84-07/16/84	0	2	
APIS0191	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	04/14/82-07/16/84	2	6	
APIS0195	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/06/90-05/06/90	0	1	
APIS0196	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/11/92-05/11/92	0	1	
APIS0197	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	06/16/76-06/16/76	0	4	
APIS0198	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/22/73-11/28/73	0	27	
APIS0199	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/24/83-10/21/83	0	16	
APIS0200	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/06/89-05/06/89	0	1	
APIS0201	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/16/86-05/06/89	2	3	
APIS0202	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/15/91-05/15/91	0	1	
APIS0205	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	06/16/76-06/16/76	0	4	
APIS0206	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	06/26/73-09/16/73	0	15	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0208	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	06/01/71-10/13/71	0	19	
APIS0159	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/28/78-09/28/78	0	1	
APIS0041	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	09/09/81-11/02/83	2	4	
APIS0044	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/27/82-07/27/82	0	1	
APIS0045	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/27/82-07/27/82	0	1	
APIS0051	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/27/82-07/27/82	0	1	
APIS0052	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/27/82-07/27/82	0	1	
APIS0053	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/27/82-07/27/82	0	1	
APIS0055	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/27/82-07/27/82	0	1	
APIS0057	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/27/82-07/27/82	0	1	
APIS0058	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/27/82-07/27/82	0	1	
APIS0059	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/27/82-07/27/82	0	1	
APIS0073	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/25/83-07/25/83	0	1	
APIS0074	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/25/83-07/25/83	0	1	
APIS0078	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/25/83-07/25/83	0	1	
APIS0079	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/25/83-07/25/83	0	1	
APIS0081	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/25/83-07/25/83	0	1	
APIS0083	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/25/83-07/25/83	0	1	
APIS0085	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/25/83-07/25/83	0	1	
APIS0089	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/25/83-07/25/83	0	1	
APIS0092	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/25/83-07/25/83	0	1	
APIS0106	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/22/86-07/22/86	0	1	
APIS0107	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/22/86-08/26/87	1	2	
APIS0108	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/22/86-08/26/87	1	2	
APIS0109	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/22/86-08/26/87	1	2	
APIS0110	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/22/86-07/22/86	0	1	
APIS0111	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/22/86-08/26/87	1	2	
APIS0112	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/22/86-08/26/87	1	2	
APIS0113	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/22/86-08/26/87	1	2	
APIS0154	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	12/11/75-12/11/75	0	1	
APIS0156	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	12/11/75-12/11/75	0	1	
APIS0157	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	12/11/75-12/11/75	0	2	
APIS0158	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	12/11/75-12/11/75	0	1	
APIS0169	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	05/14/91-05/14/91	0	1	
APIS0061	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	06/01/71-10/12/71	0	14	
APIS0127	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	07/18/79-07/18/79	0	1	
APIS0153	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	06/08/84-07/16/84	0	2	
APIS0177	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	06/08/84-07/16/84	0	2	
APIS0191	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	04/14/82-07/16/84	2	6	
APIS0208	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	06/01/71-10/13/71	0	17	
APIS0127	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	07/18/79-07/18/79	0	1	
APIS0191	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	04/14/82-04/15/82	0	2	
APIS0004	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/07/89-05/07/89	0	1	
APIS0005	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/15/91-09/03/91	0	6	
APIS0006	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/06/90-05/06/90	0	1	
APIS0007	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/11/92-09/09/92	0	5	
APIS0008	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/07/89-05/07/89	0	1	
APIS0019	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/06/90-09/07/90	0	5	
APIS0020	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/11/92-09/09/92	0	4	
APIS0024	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/15/91-09/03/91	0	7	
APIS0096	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/07/90-09/07/90	0	4	
APIS0097	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/07/89-05/07/89	0	1	
APIS0098	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/07/89-05/07/89	0	1	
APIS0100	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/15/91-09/03/91	0	7	
APIS0101	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/11/92-09/09/92	0	6	
APIS0153	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	06/08/84-07/16/84	0	2	
APIS0159	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	09/28/78-09/28/78	0	1	
APIS0177	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	06/08/84-07/16/84	0	2	
APIS0191	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	04/14/82-07/16/84	2	6	
APIS0195	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/06/90-09/07/90	0	6	
APIS0196	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/11/92-09/09/92	0	6	
APIS0202	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/15/91-09/03/91	0	7	
APIS0159	No	00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	09/28/78-09/28/78	0	1	
APIS0001	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/24/83-10/22/83	0	15	
APIS0014	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/83-08/31/83	0	1	
APIS0022	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/24/83-10/22/83	0	14	
APIS0026	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/24/84-08/24/84	0	1	
APIS0029	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/24/84-08/24/84	0	1	
APIS0032	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/24/83-10/22/83	0	12	
APIS0095	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/16/85-05/16/85	0	1	
APIS0102	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/24/83-10/22/83	0	16	
APIS0159	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/28/78-09/28/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0199	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/24/83-10/21/83	0	16	
APIS0041	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	09/09/81-11/02/83	2	4	
APIS0044	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/27/82-07/27/82	0	1	
APIS0045	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/27/82-07/27/82	0	1	
APIS0051	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/27/82-07/27/82	0	1	
APIS0052	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/27/82-07/27/82	0	1	
APIS0053	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/27/82-07/27/82	0	1	
APIS0055	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/27/82-07/27/82	0	1	
APIS0057	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/27/82-07/27/82	0	1	
APIS0058	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/27/82-07/27/82	0	1	
APIS0059	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/27/82-07/27/82	0	1	
APIS0073	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/25/83-07/25/83	0	1	
APIS0074	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/25/83-07/25/83	0	1	
APIS0078	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/25/83-07/25/83	0	1	
APIS0079	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/25/83-07/25/83	0	1	
APIS0081	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/25/83-07/25/83	0	1	
APIS0083	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/25/83-07/25/83	0	1	
APIS0085	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/25/83-07/25/83	0	1	
APIS0089	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/25/83-07/25/83	0	1	
APIS0092	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/25/83-07/25/83	0	1	
APIS0106	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/22/86-07/22/86	0	1	
APIS0107	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/22/86-08/26/87	1	2	
APIS0108	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/22/86-08/26/87	1	2	
APIS0109	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/22/86-08/26/87	1	2	
APIS0110	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/22/86-07/22/86	0	1	
APIS0111	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/22/86-08/26/87	1	2	
APIS0112	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/22/86-08/26/87	1	2	
APIS0113	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/22/86-08/26/87	1	2	
APIS0035	No	00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	07/31/86-07/30/87	0	2	
APIS0154	No	00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	12/11/75-12/11/75	0	1	
APIS0156	No	00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	12/11/75-12/11/75	0	1	
APIS0157	No	00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	12/11/75-12/11/75	0	2	
APIS0158	No	00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	12/11/75-12/11/75	0	1	
APIS0166	No	00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	09/14/72-09/14/72	0	1	
APIS0170	No	00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	09/14/72-09/14/72	0	1	
APIS0171	No	00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	09/14/72-09/14/72	0	1	
APIS0172	No	00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	09/14/72-09/14/72	0	1	
APIS0173	No	00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	09/14/72-09/14/72	0	1	
APIS0214	No	00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	09/14/72-09/14/72	0	1	
APIS0215	No	00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	09/14/72-09/14/72	0	1	
APIS0216	No	00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	09/14/72-09/14/72	0	1	
APIS0217	No	00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	09/14/72-09/14/72	0	1	
APIS0218	No	00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	09/14/72-09/14/72	0	1	
APIS0014	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/31/83-08/31/83	0	1	
APIS0026	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/24/84-08/24/84	0	1	
APIS0029	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/24/84-08/24/84	0	1	
APIS0159	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/28/78-09/28/78	0	1	
APIS0001	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/24/83-10/22/83	0	15	
APIS0002	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/21/73-11/27/73	0	25	
APIS0003	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/16/76-06/16/76	0	3	
APIS0004	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/17/87-05/07/89	1	2	
APIS0005	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/15/91-05/15/91	0	1	
APIS0006	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/06/90-05/06/90	0	1	
APIS0007	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/11/92-05/11/92	0	1	
APIS0008	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/07/89-05/07/89	0	1	
APIS0016	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/11/96-08/20/96	0	9	
APIS0017	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/07/89-05/07/89	0	1	
APIS0019	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/06/90-05/06/90	0	1	
APIS0020	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/11/92-05/11/92	0	1	
APIS0021	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/16/86-05/07/89	2	3	
APIS0022	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/24/83-10/22/83	0	14	
APIS0023	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/25/73-09/15/73	0	14	
APIS0024	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/15/91-05/15/91	0	1	
APIS0025	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/10/96-08/20/96	0	9	
APIS0027	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/11/96-08/20/96	0	9	
APIS0031	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/22/73-11/27/73	0	21	
APIS0032	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/24/83-10/22/83	0	12	
APIS0039	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/10/96-08/20/96	0	9	
APIS0054	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/11/96-08/21/96	0	9	
APIS0060	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/26/68-08/26/68	0	2	
APIS0061	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/01/71-10/12/71	0	14	
APIS0087	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/12/96-08/21/96	0	6	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0095	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/16/85-05/16/85	0	1	
APIS0096	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/07/90-05/07/90	0	1	
APIS0097	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/16/86-05/07/89	2	3	
APIS0098	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/07/89-05/07/89	0	1	
APIS0099	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/22/73-11/27/73	0	23	
APIS0100	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/15/91-05/15/91	0	1	
APIS0101	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/11/92-05/11/92	0	1	
APIS0102	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/24/83-10/22/83	0	16	
APIS0153	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/08/84-07/16/84	0	2	
APIS0162	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/11/96-08/21/96	0	9	
APIS0177	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/08/84-07/16/84	0	2	
APIS0191	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/14/82-07/16/84	2	6	
APIS0195	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/06/90-05/06/90	0	1	
APIS0196	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/11/92-05/11/92	0	1	
APIS0197	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/16/76-06/16/76	0	4	
APIS0198	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/22/73-11/28/73	0	27	
APIS0199	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/24/83-10/21/83	0	16	
APIS0200	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/06/89-05/06/89	0	1	
APIS0201	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/16/86-05/06/89	2	3	
APIS0202	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/15/91-05/15/91	0	1	
APIS0203	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/12/96-08/21/96	0	9	
APIS0205	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/16/76-06/16/76	0	4	
APIS0206	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/26/73-09/16/73	0	15	
APIS0208	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/01/71-10/13/71	0	19	
APIS0209	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/27/68-08/27/68	0	3	
APIS0106	No	00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	07/22/86-07/22/86	0	1	
APIS0107	No	00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	07/22/86-08/26/87	1	2	
APIS0108	No	00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	07/22/86-08/26/87	1	2	
APIS0109	No	00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	07/22/86-08/26/87	1	2	
APIS0110	No	00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	07/22/86-07/22/86	0	1	
APIS0111	No	00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	07/22/86-08/26/87	1	2	
APIS0112	No	00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	07/22/86-08/26/87	1	2	
APIS0113	No	00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	07/22/86-08/26/87	1	2	
APIS0191	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	04/14/82-04/15/82	0	2	
APIS0212	No	00662	PHOSPHORUS (P), WATER, TOTAL RECOVERABLE UG/L	11/01/84-11/01/84	0	1	
APIS0001	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/24/83-10/22/83	0	15	
APIS0002	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/21/73-11/27/73	0	18	
APIS0003	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/16/76-06/16/76	0	3	
APIS0004	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/17/87-05/07/89	1	2	
APIS0005	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/15/91-09/03/91	0	6	
APIS0006	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/06/90-05/06/90	0	1	
APIS0007	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/11/92-09/09/92	0	5	
APIS0008	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/07/89-05/07/89	0	1	
APIS0014	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/31/83-08/31/83	0	1	
APIS0017	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/07/89-05/07/89	0	1	
APIS0019	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/06/90-09/07/90	0	5	
APIS0020	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/11/92-09/09/92	0	4	
APIS0021	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/16/86-05/07/89	2	3	
APIS0022	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/24/83-10/22/83	0	14	
APIS0023	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/25/73-09/15/73	0	9	
APIS0024	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/15/91-09/03/91	0	7	
APIS0026	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/24/84-08/24/84	0	1	
APIS0029	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/24/84-08/24/84	0	1	
APIS0031	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/73-11/27/73	0	15	
APIS0032	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/24/83-10/22/83	0	12	
APIS0038	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/81-07/23/81	0	1	
APIS0044	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/82-07/27/82	0	1	
APIS0045	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/82-07/27/82	0	1	
APIS0047	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/12/86-09/14/87	1	9	
APIS0051	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/82-07/27/82	0	1	
APIS0052	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/82-07/27/82	0	1	
APIS0053	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/82-07/27/82	0	1	
APIS0055	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/82-07/27/82	0	1	
APIS0057	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/82-07/27/82	0	1	
APIS0059	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/82-07/27/82	0	1	
APIS0060	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/26/68-08/26/68	0	2	
APIS0061	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/06/71-10/12/71	0	9	
APIS0067	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/81-07/23/81	0	1	
APIS0069	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/81-07/23/81	0	1	
APIS0071	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/81-07/23/81	0	1	
APIS0075	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/83-07/25/83	0	1	
APIS0076	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/83-07/25/83	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0077	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/83-07/25/83	0	1	
APIS0080	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/83-07/25/83	0	1	
APIS0082	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/83-07/25/83	0	1	
APIS0084	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/83-07/25/83	0	1	
APIS0086	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/83-07/25/83	0	1	
APIS0088	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/21/81-07/26/82	1	5	
APIS0090	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/83-07/25/83	0	1	
APIS0091	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/81-07/23/81	0	1	
APIS0093	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/83-07/25/83	0	1	
APIS0095	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/16/85-05/16/85	0	1	
APIS0096	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/07/90-09/07/90	0	4	
APIS0097	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/16/86-05/07/89	2	3	
APIS0098	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/07/89-05/07/89	0	1	
APIS0099	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/73-11/27/73	0	15	
APIS0100	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/15/91-09/03/91	0	7	
APIS0101	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/11/92-09/09/92	0	6	
APIS0102	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/24/83-10/22/83	0	16	
APIS0118	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/21/81-07/27/82	1	6	
APIS0127	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/18/79-07/18/79	0	1	
APIS0144	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/81-07/23/81	0	1	
APIS0145	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/21/81-07/26/82	1	9	
APIS0148	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/81-07/23/81	0	1	
APIS0151	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/81-07/23/81	0	1	
APIS0153	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/08/84-07/16/84	0	2	
APIS0155	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/81-07/23/81	0	1	
APIS0159	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/28/78-09/28/78	0	1	
APIS0177	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/08/84-07/16/84	0	2	
APIS0188	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/22/81-07/26/82	1	5	
APIS0191	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/11/80-07/16/84	3	48	
APIS0195	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/06/90-09/07/90	0	6	
APIS0196	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/11/92-09/09/92	0	6	
APIS0197	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/16/76-06/16/76	0	4	
APIS0198	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/73-11/28/73	0	18	
APIS0199	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/24/83-10/21/83	0	16	
APIS0200	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/06/89-05/06/89	0	1	
APIS0201	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/16/86-05/06/89	2	3	
APIS0202	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/15/91-09/03/91	0	7	
APIS0205	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/16/76-06/16/76	0	4	
APIS0206	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/26/73-09/16/73	0	9	
APIS0208	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/06/71-10/13/71	0	12	
APIS0001	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/24/83-10/22/83	0	15	
APIS0002	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/21/73-11/27/73	0	16	
APIS0003	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	06/16/76-06/16/76	0	3	
APIS0004	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/17/87-05/07/89	1	2	
APIS0005	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/15/91-09/03/91	0	6	
APIS0006	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/06/90-05/06/90	0	1	
APIS0007	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/11/92-09/09/92	0	5	
APIS0008	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/07/89-05/07/89	0	1	
APIS0017	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/07/89-05/07/89	0	1	
APIS0019	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/06/90-09/07/90	0	5	
APIS0020	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/11/92-09/09/92	0	4	
APIS0021	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/16/86-05/07/89	2	3	
APIS0022	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/24/83-10/22/83	0	14	
APIS0023	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	06/25/73-09/15/73	0	9	
APIS0024	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/15/91-09/03/91	0	7	
APIS0031	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/22/73-11/27/73	0	14	
APIS0032	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/24/83-10/22/83	0	12	
APIS0061	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/06/71-10/12/71	0	9	
APIS0095	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/16/85-05/16/85	0	1	
APIS0096	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/07/90-09/07/90	0	4	
APIS0097	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/16/86-05/07/89	2	3	
APIS0098	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/07/89-05/07/89	0	1	
APIS0099	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/22/73-11/27/73	0	15	
APIS0100	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/15/91-09/03/91	0	7	
APIS0101	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/11/92-09/09/92	0	6	
APIS0102	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/24/83-10/22/83	0	16	
APIS0159	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/28/78-09/28/78	0	1	
APIS0195	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/06/90-09/07/90	0	6	
APIS0196	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/11/92-09/09/92	0	6	
APIS0197	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	06/16/76-06/16/76	0	4	
APIS0198	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/22/73-11/28/73	0	17	
APIS0199	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/24/83-10/21/83	0	16	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0200	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/06/89-05/06/89	0	1	
APIS0201	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/16/86-05/06/89	2	3	
APIS0202	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/15/91-09/03/91	0	7	
APIS0205	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	06/16/76-06/16/76	0	4	
APIS0206	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	06/26/73-09/16/73	0	8	
APIS0208	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/06/71-10/13/71	0	12	
APIS0035	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/31/86-07/30/87	0	2	
APIS0041	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	09/09/81-11/02/83	2	4	
APIS0043	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/22/86-08/14/87	1	2	
APIS0044	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/27/82-07/27/82	0	1	
APIS0045	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/27/82-07/27/82	0	1	
APIS0051	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/27/82-07/27/82	0	1	
APIS0052	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/27/82-07/27/82	0	1	
APIS0053	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/27/82-07/27/82	0	1	
APIS0055	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/27/82-07/27/82	0	1	
APIS0057	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/27/82-07/27/82	0	1	
APIS0058	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/27/82-07/27/82	0	1	
APIS0059	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/27/82-07/27/82	0	1	
APIS0073	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/25/83-07/25/83	0	1	
APIS0074	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/25/83-07/25/83	0	1	
APIS0078	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/25/83-07/25/83	0	1	
APIS0079	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/25/83-07/25/83	0	1	
APIS0081	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/25/83-07/25/83	0	1	
APIS0083	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/25/83-07/25/83	0	1	
APIS0085	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/25/83-07/25/83	0	1	
APIS0088	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/21/81-07/26/82	1	2	
APIS0089	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/25/83-07/25/83	0	1	
APIS0092	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/25/83-07/25/83	0	1	
APIS0106	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/22/86-07/22/86	0	1	
APIS0107	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/22/86-08/26/87	1	2	
APIS0108	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/22/86-08/26/87	1	2	
APIS0109	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/22/86-08/26/87	1	2	
APIS0110	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/22/86-07/22/86	0	1	
APIS0111	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/22/86-08/26/87	1	2	
APIS0112	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/22/86-08/26/87	1	2	
APIS0113	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/22/86-08/26/87	1	2	
APIS0118	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/21/81-07/27/82	1	2	
APIS0139	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/22/86-08/14/87	1	2	
APIS0145	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/21/81-07/26/82	1	3	
APIS0154	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	12/11/75-12/11/75	0	1	
APIS0156	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	12/11/75-12/11/75	0	1	
APIS0157	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	12/11/75-12/11/75	0	2	
APIS0158	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	12/11/75-12/11/75	0	1	
APIS0166	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	09/14/72-09/14/72	0	1	
APIS0170	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	09/14/72-09/14/72	0	1	
APIS0171	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	09/14/72-09/14/72	0	1	
APIS0172	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	09/14/72-09/14/72	0	1	
APIS0173	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	09/14/72-09/14/72	0	1	
APIS0188	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/22/81-07/26/82	1	2	
APIS0214	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	09/14/72-09/14/72	0	1	
APIS0215	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	09/14/72-09/14/72	0	1	
APIS0216	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	09/14/72-09/14/72	0	1	
APIS0217	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	09/14/72-09/14/72	0	1	
APIS0218	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	09/14/72-09/14/72	0	1	
APIS0001	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/24/83-10/22/83	0	15	
APIS0002	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/21/73-11/27/73	0	25	
APIS0003	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/16/76-06/16/76	0	3	
APIS0004	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/17/87-05/07/89	1	2	
APIS0005	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/15/91-05/15/91	0	1	
APIS0006	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/06/90-05/06/90	0	1	
APIS0007	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/11/92-05/11/92	0	1	
APIS0008	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/07/89-05/07/89	0	1	
APIS0016	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/11/96-08/20/96	0	9	
APIS0017	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/07/89-05/07/89	0	1	
APIS0019	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/06/90-05/06/90	0	1	
APIS0020	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/11/92-05/11/92	0	1	
APIS0021	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/16/86-05/07/89	2	3	
APIS0022	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/24/83-10/22/83	0	14	
APIS0023	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/25/73-09/15/73	0	14	
APIS0024	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/15/91-05/15/91	0	1	
APIS0025	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/10/96-08/20/96	0	9	
APIS0027	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/11/96-08/20/96	0	9	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0031	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/22/73-11/27/73	0	21	
APIS0032	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/24/83-10/22/83	0	12	
APIS0039	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/10/96-08/20/96	0	9	
APIS0054	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/11/96-08/21/96	0	9	
APIS0060	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/26/68-08/26/68	0	2	
APIS0061	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/01/71-10/12/71	0	13	
APIS0087	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/12/96-08/21/96	0	9	
APIS0095	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/16/85-05/16/85	0	1	
APIS0096	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/07/90-05/07/90	0	1	
APIS0097	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/16/86-05/07/89	2	3	
APIS0098	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/07/89-05/07/89	0	1	
APIS0099	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/22/73-11/27/73	0	23	
APIS0100	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/15/91-05/15/91	0	1	
APIS0101	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/11/92-05/11/92	0	1	
APIS0102	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/24/83-10/22/83	0	16	
APIS0127	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/18/79-07/18/79	0	1	
APIS0153	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/08/84-07/16/84	0	2	
APIS0162	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/11/96-08/21/96	0	9	
APIS0177	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/08/84-07/16/84	0	2	
APIS0191	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/14/82-07/16/84	2	6	
APIS0195	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/06/90-05/06/90	0	1	
APIS0196	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/11/92-05/11/92	0	1	
APIS0197	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/16/76-06/16/76	0	4	
APIS0198	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/22/73-11/28/73	0	27	
APIS0199	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/24/83-10/21/83	0	16	
APIS0200	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/06/89-05/06/89	0	1	
APIS0201	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/16/86-05/06/89	2	3	
APIS0202	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/15/91-05/15/91	0	1	
APIS0203	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/12/96-08/21/96	0	9	
APIS0205	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/16/76-06/16/76	0	4	
APIS0206	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/26/73-09/16/73	0	15	
APIS0208	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/01/71-10/13/71	0	19	
APIS0209	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/27/68-08/27/68	0	3	
APIS0014	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/31/83-08/31/83	0	1	
APIS0026	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/24/84-08/24/84	0	1	
APIS0029	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/24/84-08/24/84	0	1	
APIS0044	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/27/82-07/27/82	0	1	
APIS0045	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/27/82-07/27/82	0	1	
APIS0047	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/12/86-09/14/87	1	9	
APIS0051	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/27/82-07/27/82	0	1	
APIS0052	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/27/82-07/27/82	0	1	
APIS0053	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/27/82-07/27/82	0	1	
APIS0055	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/27/82-07/27/82	0	1	
APIS0057	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/27/82-07/27/82	0	1	
APIS0058	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/27/82-07/27/82	0	1	
APIS0059	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/27/82-07/27/82	0	1	
APIS0061	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/01/71-10/12/71	0	8	
APIS0075	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/25/83-07/25/83	0	1	
APIS0076	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/25/83-07/25/83	0	1	
APIS0077	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/25/83-07/25/83	0	1	
APIS0080	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/25/83-07/25/83	0	1	
APIS0082	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/25/83-07/25/83	0	1	
APIS0084	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/25/83-07/25/83	0	1	
APIS0086	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/25/83-07/25/83	0	1	
APIS0088	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/21/81-07/26/82	1	6	
APIS0090	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/25/83-07/25/83	0	1	
APIS0093	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/25/83-07/25/83	0	1	
APIS0118	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/21/81-07/27/82	1	6	
APIS0145	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/21/81-07/26/82	1	9	
APIS0188	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/22/81-07/26/82	1	6	
APIS0208	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/01/71-10/13/71	0	9	
APIS0001	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	05/24/83-10/22/83	0	15	
APIS0004	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	05/17/87-05/17/87	0	1	
APIS0022	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	05/24/83-10/22/83	0	14	
APIS0032	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	05/24/83-10/22/83	0	12	
APIS0097	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	05/16/86-05/17/87	1	2	
APIS0102	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	05/24/83-10/22/83	0	16	
APIS0159	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	09/28/78-09/28/78	0	1	
APIS0199	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	05/24/83-10/21/83	0	16	
APIS0212	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	11/01/84-11/01/84	0	1	
APIS0061	No	00685	CARBON, TOTAL INORGANIC (MG/L AS C)	06/01/71-10/12/71	0	8	
APIS0208	No	00685	CARBON, TOTAL INORGANIC (MG/L AS C)	06/01/71-10/13/71	0	9	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0044	No	00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/27/82-07/27/82	0	1	
APIS0045	No	00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/27/82-07/27/82	0	1	
APIS0051	No	00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/27/82-07/27/82	0	1	
APIS0052	No	00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/27/82-07/27/82	0	1	
APIS0053	No	00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/27/82-07/27/82	0	1	
APIS0055	No	00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/27/82-07/27/82	0	1	
APIS0057	No	00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/27/82-07/27/82	0	1	
APIS0058	No	00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/27/82-07/27/82	0	1	
APIS0059	No	00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/27/82-07/27/82	0	1	
APIS0073	No	00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	0	1	
APIS0074	No	00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	0	1	
APIS0078	No	00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	0	1	
APIS0079	No	00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	0	1	
APIS0081	No	00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	0	1	
APIS0083	No	00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	0	1	
APIS0085	No	00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	0	1	
APIS0088	No	00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/21/81-07/26/82	1	2	
APIS0089	No	00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	0	1	
APIS0092	No	00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	0	1	
APIS0118	No	00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/21/81-07/27/82	1	2	
APIS0145	No	00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/21/81-07/26/82	1	3	
APIS0188	No	00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/22/81-07/26/82	1	2	
APIS0073	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	0	1	
APIS0074	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	0	1	
APIS0078	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	0	1	
APIS0079	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	0	1	
APIS0081	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	0	1	
APIS0083	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	0	1	
APIS0085	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	0	1	
APIS0088	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	07/21/81-07/21/81	0	1	
APIS0089	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	0	1	
APIS0118	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	07/21/81-07/21/81	0	1	
APIS0145	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	07/21/81-07/21/81	0	2	
APIS0188	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	07/22/81-07/22/81	0	1	
APIS0001	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/24/83-10/22/83	0	4	
APIS0003	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	06/16/76-06/16/76	0	3	
APIS0004	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/17/87-05/07/89	1	2	
APIS0005	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/15/91-09/03/91	0	2	
APIS0006	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/06/90-05/06/90	0	1	
APIS0007	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/11/92-09/09/92	0	2	
APIS0008	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/07/89-05/07/89	0	1	
APIS0017	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/07/89-05/07/89	0	1	
APIS0019	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/06/90-09/07/90	0	2	
APIS0020	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/11/92-09/09/92	0	2	
APIS0021	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/17/87-05/07/89	1	2	
APIS0022	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/24/83-10/22/83	0	4	
APIS0024	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/15/91-09/03/91	0	2	
APIS0032	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/24/83-10/22/83	0	4	
APIS0095	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/16/85-05/16/85	0	1	
APIS0096	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/07/90-09/07/90	0	2	
APIS0097	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/17/87-05/07/89	1	2	
APIS0098	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/07/89-05/07/89	0	1	
APIS0100	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/15/91-09/03/91	0	3	
APIS0101	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/11/92-09/09/92	0	2	
APIS0102	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/24/83-10/22/83	0	10	
APIS0159	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	09/28/78-09/28/78	0	1	
APIS0195	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/06/90-09/07/90	0	2	
APIS0196	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/11/92-09/09/92	0	2	
APIS0197	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	06/16/76-06/16/76	0	4	
APIS0199	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/24/83-10/21/83	0	4	
APIS0200	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/06/89-05/06/89	0	1	
APIS0201	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/16/87-05/06/89	1	2	
APIS0202	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/15/91-09/03/91	0	2	
APIS0205	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	06/16/76-06/16/76	0	4	
APIS0061	No	00690	CARBON, TOTAL (MG/L AS C)	06/01/71-10/12/71	0	8	
APIS0208	No	00690	CARBON, TOTAL (MG/L AS C)	06/01/71-10/13/71	0	9	
APIS0212	No	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	11/01/84-11/01/84	0	1	
APIS0044	No	00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/27/82-07/27/82	0	1	
APIS0045	No	00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/27/82-07/27/82	0	1	
APIS0051	No	00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/27/82-07/27/82	0	1	
APIS0052	No	00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/27/82-07/27/82	0	1	
APIS0053	No	00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/27/82-07/27/82	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0055	No	00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/27/82-07/27/82	0	1	
APIS0057	No	00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/27/82-07/27/82	0	1	
APIS0058	No	00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/27/82-07/27/82	0	1	
APIS0059	No	00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/27/82-07/27/82	0	1	
APIS0083	No	00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/25/83-07/25/83	0	1	
APIS0088	No	00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/21/81-07/26/82	1	2	
APIS0092	No	00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/25/83-07/25/83	0	1	
APIS0118	No	00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/21/81-07/27/82	1	2	
APIS0145	No	00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/21/81-07/26/82	1	3	
APIS0188	No	00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/22/81-07/26/82	1	2	
APIS0060	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/26/68-11/23/69	1	4	
APIS0159	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/78-09/28/78	0	1	
APIS0191	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/14/82-09/15/82	0	3	
APIS0159	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/78-09/28/78	0	1	
APIS0060	No	00910	CALCIUM (MG/L AS CACO3)	08/26/68-11/23/69	1	4	
APIS0212	No	00910	CALCIUM (MG/L AS CACO3)	11/01/84-11/01/84	0	1	
APIS0001	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/24/83-10/22/83	0	10	
APIS0003	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/16/76-06/16/76	0	3	
APIS0004	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/17/87-05/07/89	1	2	
APIS0005	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/15/91-05/15/91	0	1	
APIS0006	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/06/90-05/06/90	0	1	
APIS0007	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/11/92-05/11/92	0	1	
APIS0008	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/07/89-05/07/89	0	1	
APIS0014	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/28/83-07/28/83	0	1	
APIS0017	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/07/89-05/07/89	0	1	
APIS0018	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/28/83-07/28/83	0	1	
APIS0019	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/06/90-09/07/90	0	5	
APIS0020	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/11/92-05/11/92	0	1	
APIS0021	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/16/86-05/07/89	2	3	
APIS0022	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/24/83-10/22/83	0	10	
APIS0026	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/24/84-08/24/84	0	1	
APIS0029	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/24/84-08/24/84	0	1	
APIS0032	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/24/83-10/22/83	0	9	
APIS0061	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/01/71-10/12/71	0	5	
APIS0095	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/16/85-05/16/85	0	1	
APIS0096	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/07/90-09/07/90	0	4	
APIS0097	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/16/86-05/07/89	2	3	
APIS0098	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/07/89-05/07/89	0	1	
APIS0100	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/15/91-05/15/91	0	1	
APIS0101	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/11/92-05/11/92	0	1	
APIS0102	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/24/83-10/22/83	0	12	
APIS0104	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/23/83-06/23/83	0	1	
APIS0120	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/23/83-06/23/83	0	1	
APIS0125	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/23/83-06/23/83	0	1	
APIS0131	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/23/83-06/23/83	0	1	
APIS0153	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/08/84-07/16/84	0	2	
APIS0159	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/78-09/28/78	0	1	
APIS0177	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/08/84-07/16/84	0	2	
APIS0191	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/14/82-07/16/84	2	6	
APIS0195	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/06/90-09/07/90	0	6	
APIS0196	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/11/92-05/11/92	0	1	
APIS0197	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/16/76-06/16/76	0	4	
APIS0199	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/24/83-10/21/83	0	11	
APIS0200	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/06/89-05/06/89	0	1	
APIS0201	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/16/86-05/06/89	2	3	
APIS0205	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/16/76-06/16/76	0	4	
APIS0208	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/01/71-10/13/71	0	6	
APIS0127	No	00916	CALCIUM, TOTAL (MG/L AS CA)	07/18/79-07/18/79	0	1	
APIS0169	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	05/14/91-05/14/91	0	1	
APIS0154	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	12/11/75-12/11/75	0	1	
APIS0156	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	12/11/75-12/11/75	0	1	
APIS0157	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	12/11/75-12/11/75	0	2	
APIS0158	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	12/11/75-12/11/75	0	1	
APIS0169	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	05/14/91-05/14/91	0	1	
APIS0001	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/24/83-10/22/83	0	10	
APIS0003	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/16/76-06/16/76	0	3	
APIS0004	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/17/87-05/07/89	1	2	
APIS0005	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/15/91-05/15/91	0	1	
APIS0006	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/06/90-05/06/90	0	1	
APIS0007	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/11/92-05/11/92	0	1	
APIS0008	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/07/89-05/07/89	0	1	
APIS0014	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/28/83-07/28/83	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0018	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/28/83-07/28/83	0	1	
APIS0022	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/24/83-10/22/83	0	10	
APIS0026	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/24/84-08/24/84	0	1	
APIS0029	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/24/84-08/24/84	0	1	
APIS0032	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/24/83-10/22/83	0	9	
APIS0061	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/01/71-10/12/71	0	5	
APIS0095	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/16/85-05/16/85	0	1	
APIS0096	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/07/90-05/07/90	0	1	
APIS0097	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/17/87-05/07/89	1	2	
APIS0098	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/07/89-05/07/89	0	1	
APIS0100	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/15/91-05/15/91	0	1	
APIS0101	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/11/92-05/11/92	0	1	
APIS0102	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/24/83-10/22/83	0	12	
APIS0104	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/23/83-06/23/83	0	1	
APIS0120	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/23/83-06/23/83	0	1	
APIS0125	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/23/83-06/23/83	0	1	
APIS0131	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/23/83-06/23/83	0	1	
APIS0153	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/08/84-07/16/84	0	2	
APIS0159	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/78-09/28/78	0	1	
APIS0177	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/08/84-07/16/84	0	2	
APIS0191	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/14/82-07/16/84	2	6	
APIS0197	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/16/76-06/16/76	0	4	
APIS0199	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/24/83-10/21/83	0	11	
APIS0205	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/16/76-06/16/76	0	4	
APIS0208	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/01/71-10/13/71	0	6	
APIS0212	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/01/84-11/01/84	0	1	
APIS0060	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/26/68-11/23/69	1	4	
APIS0127	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/18/79-07/18/79	0	1	
APIS0060	No	00929	SODIUM, TOTAL (MG/L AS NA)	08/26/68-11/23/69	1	4	
APIS0127	No	00929	SODIUM, TOTAL (MG/L AS NA)	07/18/79-07/18/79	0	1	
APIS0001	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/24/83-10/22/83	0	10	
APIS0003	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/16/76-06/16/76	0	3	
APIS0004	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/17/87-05/07/89	1	2	
APIS0005	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/91-05/15/91	0	1	
APIS0006	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/06/90-05/06/90	0	1	
APIS0007	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/11/92-05/11/92	0	1	
APIS0008	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/07/89-05/07/89	0	1	
APIS0014	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/28/83-07/28/83	0	1	
APIS0018	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/28/83-07/28/83	0	1	
APIS0022	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/24/83-10/22/83	0	10	
APIS0026	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/24/84-08/24/84	0	1	
APIS0029	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/24/84-08/24/84	0	1	
APIS0032	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/24/83-10/22/83	0	9	
APIS0061	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/01/71-10/12/71	0	5	
APIS0095	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/16/85-05/16/85	0	1	
APIS0096	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/07/90-05/07/90	0	1	
APIS0097	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/17/87-05/07/89	1	2	
APIS0098	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/07/89-05/07/89	0	1	
APIS0100	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/91-05/15/91	0	1	
APIS0101	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/11/92-05/11/92	0	1	
APIS0102	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/24/83-10/22/83	0	12	
APIS0104	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/23/83-06/23/83	0	1	
APIS0120	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/23/83-06/23/83	0	1	
APIS0125	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/23/83-06/23/83	0	1	
APIS0131	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/23/83-06/23/83	0	1	
APIS0153	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/08/84-07/16/84	0	2	
APIS0159	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/28/78-09/28/78	0	1	
APIS0177	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/08/84-07/16/84	0	2	
APIS0191	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/14/82-07/16/84	2	6	
APIS0197	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/16/76-06/16/76	0	4	
APIS0199	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/24/83-10/21/83	0	11	
APIS0205	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/16/76-06/16/76	0	4	
APIS0208	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/01/71-10/13/71	0	6	
APIS0212	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/01/84-11/01/84	0	1	
APIS0159	No	00931	SODIUM ADSORPTION RATIO	09/28/78-09/28/78	0	1	
APIS0191	No	00931	SODIUM ADSORPTION RATIO	04/14/82-09/15/82	0	3	
APIS0159	No	00932	SODIUM, PERCENT	09/28/78-09/28/78	0	1	
APIS0191	No	00932	SODIUM, PERCENT	04/14/82-09/15/82	0	3	
APIS0001	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/24/83-10/22/83	0	10	
APIS0003	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/16/76-06/16/76	0	3	
APIS0004	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/17/87-05/07/89	1	2	
APIS0005	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/91-05/15/91	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0006	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/06/90-05/06/90	0	1	
APIS0007	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/11/92-05/11/92	0	1	
APIS0008	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/07/89-05/07/89	0	1	
APIS0014	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/28/83-07/28/83	0	1	
APIS0018	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/28/83-07/28/83	0	1	
APIS0022	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/24/83-10/22/83	0	10	
APIS0026	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/24/84-08/24/84	0	1	
APIS0029	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/24/84-08/24/84	0	1	
APIS0032	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/24/83-10/22/83	0	9	
APIS0061	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/01/71-10/12/71	0	5	
APIS0095	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/85-05/16/85	0	1	
APIS0096	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/07/90-05/07/90	0	1	
APIS0097	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/17/87-05/07/89	1	2	
APIS0098	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/07/89-05/07/89	0	1	
APIS0100	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/91-05/15/91	0	1	
APIS0101	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/11/92-05/11/92	0	1	
APIS0102	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/24/83-10/22/83	0	12	
APIS0104	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/23/83-06/23/83	0	1	
APIS0120	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/23/83-06/23/83	0	1	
APIS0125	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/23/83-06/23/83	0	1	
APIS0131	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/23/83-06/23/83	0	1	
APIS0153	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/08/84-07/16/84	0	2	
APIS0159	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/78-09/28/78	0	1	
APIS0177	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/08/84-07/16/84	0	2	
APIS0191	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/14/82-07/16/84	2	6	
APIS0197	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/16/76-06/16/76	0	4	
APIS0199	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/24/83-10/21/83	0	11	
APIS0205	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/16/76-06/16/76	0	4	
APIS0208	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/01/71-10/13/71	0	6	
APIS0212	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/01/84-11/01/84	0	1	
APIS0060	No	00937	POTASSIUM, TOTAL MG/L AS K)	08/26/68-11/23/69	1	4	
APIS0127	No	00937	POTASSIUM, TOTAL MG/L AS K)	07/18/79-07/18/79	0	1	
APIS0002	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/21/73-10/24/73	0	12	
APIS0003	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/16/76-06/16/76	0	3	
APIS0014	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	07/28/83-07/28/83	0	1	
APIS0018	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	07/28/83-07/28/83	0	1	
APIS0023	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/15/73-09/15/73	0	5	
APIS0026	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	08/24/84-08/24/84	0	1	
APIS0029	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	08/24/84-08/24/84	0	1	
APIS0031	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/22/73-09/16/73	0	10	
APIS0060	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/26/68-11/23/69	1	4	
APIS0061	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/01/71-10/12/71	0	5	
APIS0099	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/22/73-09/16/73	0	10	
APIS0104	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	06/23/83-06/23/83	0	1	
APIS0120	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	06/23/83-06/23/83	0	1	
APIS0125	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	06/23/83-06/23/83	0	1	
APIS0127	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/18/79-07/18/79	0	1	
APIS0131	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	06/23/83-06/23/83	0	1	
APIS0153	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/08/84-07/16/84	0	2	
APIS0159	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/78-09/28/78	0	1	
APIS0177	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/08/84-07/16/84	0	2	
APIS0191	No	00940	CHLORIDE,TOTAL IN WATER MG/L	04/14/82-07/16/84	2	6	
APIS0197	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/16/76-06/16/76	0	4	
APIS0198	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/22/73-10/24/73	0	14	
APIS0205	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/16/76-06/16/76	0	4	
APIS0206	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/16/73-09/16/73	0	5	
APIS0208	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/01/71-10/13/71	0	6	
APIS0005	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/15/91-09/03/91	0	6	
APIS0006	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/06/90-05/06/90	0	1	
APIS0007	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/11/92-09/09/92	0	5	
APIS0008	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/07/89-05/07/89	0	1	
APIS0017	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/07/89-05/07/89	0	1	
APIS0019	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/06/90-09/07/90	0	5	
APIS0020	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/11/92-09/09/92	0	4	
APIS0024	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/15/91-09/03/91	0	7	
APIS0096	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/07/90-09/07/90	0	4	
APIS0098	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/07/89-05/07/89	0	1	
APIS0100	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/15/91-09/03/91	0	7	
APIS0101	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/11/92-09/09/92	0	6	
APIS0195	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/06/90-09/07/90	0	6	
APIS0196	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/11/92-09/09/92	0	6	
APIS0200	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/06/89-05/06/89	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0202	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/15/91-09/03/91	0	7	
APIS0212	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/01/84-11/01/84	0	1	
APIS0014	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	07/28/83-07/28/83	0	1	
APIS0018	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	07/28/83-07/28/83	0	1	
APIS0026	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	08/24/84-08/24/84	0	1	
APIS0029	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	08/24/84-08/24/84	0	1	
APIS0060	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/26/68-11/23/69	1	4	
APIS0104	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/23/83-06/23/83	0	1	
APIS0120	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/23/83-06/23/83	0	1	
APIS0125	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/23/83-06/23/83	0	1	
APIS0131	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/23/83-06/23/83	0	1	
APIS0153	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/08/84-07/16/84	0	2	
APIS0159	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/28/78-09/28/78	0	1	
APIS0177	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/08/84-07/16/84	0	2	
APIS0191	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/14/82-07/16/84	2	6	
APIS0001	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/24/83-10/22/83	0	15	
APIS0003	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	06/16/76-06/16/76	0	3	
APIS0004	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/17/87-05/07/89	1	2	
APIS0005	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/15/91-09/03/91	0	6	
APIS0006	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/06/90-05/06/90	0	1	
APIS0007	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/11/92-09/09/92	0	5	
APIS0008	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/07/89-05/07/89	0	1	
APIS0017	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/07/89-05/07/89	0	1	
APIS0019	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/06/90-09/07/90	0	5	
APIS0020	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/11/92-09/09/92	0	4	
APIS0021	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/16/86-05/07/89	2	3	
APIS0022	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/24/83-10/22/83	0	14	
APIS0024	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/15/91-09/03/91	0	7	
APIS0032	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/24/83-10/22/83	0	12	
APIS0061	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	06/01/71-10/12/71	0	5	
APIS0095	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/16/85-05/16/85	0	1	
APIS0096	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/07/90-09/07/90	0	4	
APIS0097	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/16/86-05/07/89	2	3	
APIS0098	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/07/89-05/07/89	0	1	
APIS0100	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/15/91-09/03/91	0	7	
APIS0101	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/11/92-09/09/92	0	6	
APIS0102	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/24/83-10/22/83	0	16	
APIS0195	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/06/90-09/07/90	0	6	
APIS0196	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/11/92-09/09/92	0	6	
APIS0197	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	06/16/76-06/16/76	0	4	
APIS0199	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/24/83-10/21/83	0	16	
APIS0200	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/06/89-05/06/89	0	1	
APIS0201	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/16/86-05/06/89	2	3	
APIS0202	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/15/91-09/03/91	0	7	
APIS0205	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	06/16/76-06/16/76	0	4	
APIS0208	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	06/01/71-10/13/71	0	6	
APIS0014	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/28/83-07/28/83	0	1	
APIS0018	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/28/83-07/28/83	0	1	
APIS0026	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/24/84-08/24/84	0	1	
APIS0029	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/24/84-08/24/84	0	1	
APIS0061	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/01/71-06/01/71	0	3	
APIS0104	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/23/83-06/23/83	0	1	
APIS0120	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/23/83-06/23/83	0	1	
APIS0125	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/23/83-06/23/83	0	1	
APIS0131	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/23/83-06/23/83	0	1	
APIS0153	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/08/84-07/16/84	0	2	
APIS0159	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/78-09/28/78	0	1	
APIS0177	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/08/84-07/16/84	0	2	
APIS0191	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/14/82-07/16/84	2	6	
APIS0208	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/01/71-06/01/71	0	3	
APIS0212	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/84-11/01/84	0	1	
APIS0060	No	00951	FLUORIDE, TOTAL (MG/L AS F)	08/26/68-08/26/68	0	2	
APIS0001	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/24/83-10/22/83	0	15	
APIS0002	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/21/73-11/27/73	0	25	
APIS0003	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/16/76-06/16/76	0	3	
APIS0004	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/17/87-05/07/89	1	2	
APIS0005	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/15/91-09/03/91	0	6	
APIS0006	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/06/90-05/06/90	0	1	
APIS0007	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/11/92-09/09/92	0	5	
APIS0008	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/07/89-05/07/89	0	1	
APIS0014	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/28/83-07/28/83	0	1	
APIS0016	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/11/96-08/20/96	0	9	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0017	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/07/89-05/07/89	0	1	
APIS0018	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/28/83-07/28/83	0	1	
APIS0019	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/06/90-09/07/90	0	5	
APIS0020	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/11/92-09/09/92	0	4	
APIS0021	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/16/86-05/07/89	2	3	
APIS0022	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/24/83-10/22/83	0	14	
APIS0023	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/25/73-09/15/73	0	14	
APIS0024	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/15/91-09/03/91	0	7	
APIS0025	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/10/96-08/20/96	0	9	
APIS0026	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/24/84-08/24/84	0	1	
APIS0027	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/11/96-08/20/96	0	9	
APIS0029	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/24/84-08/24/84	0	1	
APIS0031	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/22/73-11/27/73	0	21	
APIS0032	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/24/83-10/22/83	0	12	
APIS0039	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/10/96-08/20/96	0	9	
APIS0054	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/11/96-08/21/96	0	9	
APIS0060	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/26/68-08/26/68	0	2	
APIS0061	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/01/71-10/12/71	0	14	
APIS0087	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/12/96-08/21/96	0	9	
APIS0095	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/16/85-05/16/85	0	1	
APIS0096	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/07/90-09/07/90	0	4	
APIS0097	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/16/86-05/07/89	2	3	
APIS0098	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/07/89-05/07/89	0	1	
APIS0099	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/22/73-11/27/73	0	23	
APIS0100	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/15/91-09/03/91	0	7	
APIS0101	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/11/92-09/09/92	0	6	
APIS0102	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/24/83-10/22/83	0	16	
APIS0104	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/23/83-06/23/83	0	1	
APIS0120	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/23/83-06/23/83	0	1	
APIS0125	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/23/83-06/23/83	0	1	
APIS0131	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/23/83-06/23/83	0	1	
APIS0153	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/08/84-07/16/84	0	2	
APIS0159	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/28/78-09/28/78	0	1	
APIS0162	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/11/96-08/21/96	0	9	
APIS0177	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/08/84-07/16/84	0	2	
APIS0191	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/14/82-07/16/84	2	6	
APIS0195	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/06/90-09/07/90	0	6	
APIS0196	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/11/92-09/09/92	0	6	
APIS0197	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/16/76-06/16/76	0	4	
APIS0198	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/22/73-11/28/73	0	27	
APIS0199	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/24/83-10/21/83	0	16	
APIS0200	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/06/89-05/06/89	0	1	
APIS0201	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/16/86-05/06/89	2	3	
APIS0202	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/15/91-09/03/91	0	7	
APIS0203	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/12/96-08/21/96	0	9	
APIS0205	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/16/76-06/16/76	0	4	
APIS0206	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/26/73-09/16/73	0	15	
APIS0208	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/01/71-10/13/71	0	19	
APIS0209	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/27/68-08/27/68	0	3	
APIS0212	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/01/84-11/01/84	0	1	
APIS0095	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/16/85-05/16/85	0	1	
APIS0159	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/28/78-09/28/78	0	1	
APIS0159	No	01001	ARSENIC, SUSPENDED (UG/L AS AS)	09/28/78-09/28/78	0	1	
APIS0095	No	01002	ARSENIC, TOTAL (UG/L AS AS)	05/16/85-05/16/85	0	1	
APIS0159	No	01002	ARSENIC, TOTAL (UG/L AS AS)	09/28/78-09/28/78	0	1	
APIS0154	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	12/11/75-12/11/75	0	1	
APIS0156	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	12/11/75-12/11/75	0	1	
APIS0157	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	12/11/75-12/11/75	0	2	
APIS0158	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	12/11/75-12/11/75	0	1	
APIS0169	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	05/14/91-05/14/91	0	1	
APIS0012	No	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	06/06/84-10/13/85	1	5	
APIS0063	No	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	07/27/84-08/24/84	0	5	
APIS0065	No	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	10/20/83-10/20/83	0	3	
APIS0134	No	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	08/16/74-08/16/74	0	6	
APIS0163	No	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	08/21/79-08/21/84	5	14	
APIS0174	No	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	08/08/74-08/08/74	0	13	
APIS0176	No	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	10/01/77-10/01/86	9	14	S
APIS0178	No	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	08/12/70-08/12/70	0	3	
APIS0159	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	09/28/78-09/28/78	0	1	
APIS0159	No	01006	BARIUM, SUSPENDED (UG/L AS BA)	09/28/78-09/28/78	0	1	
APIS0159	No	01007	BARIUM, TOTAL (UG/L AS BA)	09/28/78-09/28/78	0	1	
APIS0154	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	12/11/75-12/11/75	0	1	

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Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0156	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	12/11/75-12/11/75	0	1	
APIS0157	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	12/11/75-12/11/75	0	2	
APIS0158	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	12/11/75-12/11/75	0	1	
APIS0164	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/27/90-06/27/90	0	1	
APIS0167	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/27/90-06/27/90	0	1	
APIS0169	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/27/90-06/27/90	0	1	
APIS0181	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/26/90-06/26/90	0	1	
APIS0182	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/26/90-06/26/90	0	1	
APIS0164	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/27/90-06/27/90	0	1	
APIS0167	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/27/90-06/27/90	0	1	
APIS0169	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/27/90-06/27/90	0	1	
APIS0181	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/26/90-06/26/90	0	1	
APIS0182	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/26/90-06/26/90	0	1	
APIS0061	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	06/01/71-06/01/71	0	3	
APIS0095	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/16/85-05/16/85	0	1	
APIS0159	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/28/78-09/28/78	0	1	
APIS0193	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	07/07/92-04/28/93	0	3	
APIS0208	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	06/01/71-10/13/71	0	5	
APIS0159	No	01026	CADMIUM, SUSPENDED (UG/L AS CD)	09/28/78-09/28/78	0	1	
APIS0095	No	01027	CADMIUM, TOTAL (UG/L AS CD)	05/16/85-05/16/85	0	1	
APIS0159	No	01027	CADMIUM, TOTAL (UG/L AS CD)	09/28/78-09/28/78	0	1	
APIS0193	No	01027	CADMIUM, TOTAL (UG/L AS CD)	07/07/92-04/28/93	0	3	
APIS0154	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	12/11/75-12/11/75	0	1	
APIS0156	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	12/11/75-12/11/75	0	1	
APIS0157	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	12/11/75-12/11/75	0	2	
APIS0158	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	12/11/75-12/11/75	0	1	
APIS0169	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	05/14/91-05/14/91	0	1	
APIS0154	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	12/11/75-12/11/75	0	1	
APIS0156	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	12/11/75-12/11/75	0	1	
APIS0157	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	12/11/75-12/11/75	0	2	
APIS0158	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	12/11/75-12/11/75	0	1	
APIS0164	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/90-06/27/90	0	1	
APIS0167	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/90-06/27/90	0	1	
APIS0169	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/90-05/14/91	0	2	
APIS0181	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/26/90-06/26/90	0	1	
APIS0061	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/12/71-10/12/71	0	2	
APIS0095	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/16/85-05/16/85	0	1	
APIS0159	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/28/78-09/28/78	0	1	
APIS0193	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/07/92-04/28/93	0	3	
APIS0208	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/01/71-10/13/71	0	2	
APIS0159	No	01031	CHROMIUM, SUSPEND (UG/L AS CR)	09/28/78-09/28/78	0	1	
APIS0095	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/16/85-05/16/85	0	1	
APIS0159	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	09/28/78-09/28/78	0	1	
APIS0193	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/07/92-04/28/93	0	3	
APIS0061	No	01035	COBALT, DISSOLVED (UG/L AS CO)	06/01/71-10/12/71	0	4	
APIS0159	No	01035	COBALT, DISSOLVED (UG/L AS CO)	09/28/78-09/28/78	0	1	
APIS0208	No	01035	COBALT, DISSOLVED (UG/L AS CO)	06/01/71-10/13/71	0	5	
APIS0159	No	01036	COBALT, SUSPENDED (UG/L AS CO)	09/28/78-09/28/78	0	1	
APIS0159	No	01037	COBALT, TOTAL (UG/L AS CO)	09/28/78-09/28/78	0	1	
APIS0003	No	01040	COPPER, DISSOLVED (UG/L AS CU)	06/16/76-06/16/76	0	3	
APIS0061	No	01040	COPPER, DISSOLVED (UG/L AS CU)	06/01/71-10/12/71	0	5	
APIS0095	No	01040	COPPER, DISSOLVED (UG/L AS CU)	05/16/85-05/16/85	0	1	
APIS0159	No	01040	COPPER, DISSOLVED (UG/L AS CU)	09/28/78-09/28/78	0	1	
APIS0193	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/07/92-04/28/93	0	3	
APIS0197	No	01040	COPPER, DISSOLVED (UG/L AS CU)	06/16/76-06/16/76	0	4	
APIS0205	No	01040	COPPER, DISSOLVED (UG/L AS CU)	06/16/76-06/16/76	0	4	
APIS0208	No	01040	COPPER, DISSOLVED (UG/L AS CU)	06/01/71-10/13/71	0	6	
APIS0159	No	01041	COPPER, SUSPENDED (UG/L AS CU)	09/28/78-09/28/78	0	1	
APIS0095	No	01042	COPPER, TOTAL (UG/L AS CU)	05/16/85-05/16/85	0	1	
APIS0159	No	01042	COPPER, TOTAL (UG/L AS CU)	09/28/78-09/28/78	0	1	
APIS0193	No	01042	COPPER, TOTAL (UG/L AS CU)	07/07/92-04/28/93	0	3	
APIS0154	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	12/11/75-12/11/75	0	1	
APIS0156	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	12/11/75-12/11/75	0	1	
APIS0157	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	12/11/75-12/11/75	0	2	
APIS0158	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	12/11/75-12/11/75	0	1	
APIS0164	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/27/90-06/27/90	0	1	
APIS0167	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/27/90-06/27/90	0	1	
APIS0169	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/27/90-05/14/91	0	2	
APIS0181	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/26/90-06/26/90	0	1	
APIS0182	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/26/90-06/26/90	0	1	
APIS0159	No	01044	IRON, SUSPENDED (UG/L AS FE)	09/28/78-09/28/78	0	1	
APIS0095	No	01045	IRON, TOTAL (UG/L AS FE)	05/16/85-05/16/85	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0159	No	01045	IRON, TOTAL (UG/L AS FE)	09/28/78-09/28/78	0	1	
APIS0003	No	01046	IRON, DISSOLVED (UG/L AS FE)	06/16/76-06/16/76	0	3	
APIS0061	No	01046	IRON, DISSOLVED (UG/L AS FE)	06/01/71-10/12/71	0	5	
APIS0095	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/16/85-05/16/85	0	1	
APIS0159	No	01046	IRON, DISSOLVED (UG/L AS FE)	09/28/78-09/28/78	0	1	
APIS0197	No	01046	IRON, DISSOLVED (UG/L AS FE)	06/16/76-06/16/76	0	4	
APIS0205	No	01046	IRON, DISSOLVED (UG/L AS FE)	06/16/76-06/16/76	0	4	
APIS0208	No	01046	IRON, DISSOLVED (UG/L AS FE)	06/01/71-10/13/71	0	6	
APIS0003	No	01049	LEAD, DISSOLVED (UG/L AS PB)	06/16/76-06/16/76	0	3	
APIS0061	No	01049	LEAD, DISSOLVED (UG/L AS PB)	06/01/71-10/12/71	0	5	
APIS0095	No	01049	LEAD, DISSOLVED (UG/L AS PB)	05/16/85-05/16/85	0	1	
APIS0159	No	01049	LEAD, DISSOLVED (UG/L AS PB)	09/28/78-09/28/78	0	1	
APIS0193	No	01049	LEAD, DISSOLVED (UG/L AS PB)	07/07/92-04/28/93	0	3	
APIS0197	No	01049	LEAD, DISSOLVED (UG/L AS PB)	06/16/76-06/16/76	0	4	
APIS0205	No	01049	LEAD, DISSOLVED (UG/L AS PB)	06/16/76-06/16/76	0	4	
APIS0208	No	01049	LEAD, DISSOLVED (UG/L AS PB)	06/01/71-10/13/71	0	6	
APIS0159	No	01050	LEAD, SUSPENDED (UG/L AS PB)	09/28/78-09/28/78	0	1	
APIS0095	No	01051	LEAD, TOTAL (UG/L AS PB)	05/16/85-05/16/85	0	1	
APIS0159	No	01051	LEAD, TOTAL (UG/L AS PB)	09/28/78-09/28/78	0	1	
APIS0193	No	01051	LEAD, TOTAL (UG/L AS PB)	07/07/92-04/28/93	0	3	
APIS0107	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/26/87-08/26/87	0	1	
APIS0108	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/26/87-08/26/87	0	1	
APIS0109	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/26/87-08/26/87	0	1	
APIS0111	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/26/87-08/26/87	0	1	
APIS0112	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/26/87-08/26/87	0	1	
APIS0113	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/26/87-08/26/87	0	1	
APIS0154	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	12/11/75-12/11/75	0	1	
APIS0156	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	12/11/75-12/11/75	0	1	
APIS0157	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	12/11/75-12/11/75	0	2	
APIS0158	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	12/11/75-12/11/75	0	1	
APIS0164	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/27/90-06/27/90	0	1	
APIS0166	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/14/72-09/14/72	0	1	
APIS0167	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/27/90-06/27/90	0	1	
APIS0169	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/27/90-05/14/91	0	2	
APIS0170	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/14/72-09/14/72	0	1	
APIS0171	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/14/72-09/14/72	0	1	
APIS0172	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/14/72-09/14/72	0	1	
APIS0173	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/14/72-09/14/72	0	1	
APIS0181	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/26/90-06/26/90	0	1	
APIS0182	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/26/90-06/26/90	0	1	
APIS0214	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/14/72-09/14/72	0	1	
APIS0215	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/14/72-09/14/72	0	1	
APIS0216	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/14/72-09/14/72	0	1	
APIS0217	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/14/72-09/14/72	0	1	
APIS0218	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/14/72-09/14/72	0	1	
APIS0154	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	12/11/75-12/11/75	0	1	
APIS0156	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	12/11/75-12/11/75	0	1	
APIS0157	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	12/11/75-12/11/75	0	2	
APIS0158	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	12/11/75-12/11/75	0	1	
APIS0164	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/27/90-06/27/90	0	1	
APIS0167	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/27/90-06/27/90	0	1	
APIS0169	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/27/90-05/14/91	0	2	
APIS0181	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/26/90-06/26/90	0	1	
APIS0182	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/26/90-06/26/90	0	1	
APIS0159	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	09/28/78-09/28/78	0	1	
APIS0095	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/16/85-05/16/85	0	1	
APIS0127	No	01055	MANGANESE, TOTAL (UG/L AS MN)	07/18/79-07/18/79	0	1	
APIS0159	No	01055	MANGANESE, TOTAL (UG/L AS MN)	09/28/78-09/28/78	0	1	
APIS0061	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/01/71-10/12/71	0	5	
APIS0095	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/16/85-05/16/85	0	1	
APIS0159	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/28/78-09/28/78	0	1	
APIS0208	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/01/71-10/13/71	0	6	
APIS0212	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/01/84-11/01/84	0	1	
APIS0061	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/12/71-10/12/71	0	2	
APIS0208	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/13/71-10/13/71	0	2	
APIS0003	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	06/16/76-06/16/76	0	3	
APIS0061	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	06/01/71-10/12/71	0	5	
APIS0095	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/16/85-05/16/85	0	1	
APIS0197	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	06/16/76-06/16/76	0	4	
APIS0205	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	06/16/76-06/16/76	0	4	
APIS0208	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	06/01/71-10/13/71	0	6	
APIS0095	No	01067	NICKEL, TOTAL (UG/L AS NI)	05/16/85-05/16/85	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0154	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	12/11/75-12/11/75	0	1	
APIS0156	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	12/11/75-12/11/75	0	1	
APIS0157	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	12/11/75-12/11/75	0	2	
APIS0158	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	12/11/75-12/11/75	0	1	
APIS0134	No	01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	08/16/74-08/16/74	0	6	
APIS0174	No	01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	08/08/74-08/08/74	0	13	
APIS0159	No	01075	SILVER, DISSOLVED (UG/L AS AG)	09/28/78-09/28/78	0	1	
APIS0159	No	01076	SILVER, SUSPENDED (UG/L AS AG)	09/28/78-09/28/78	0	1	
APIS0159	No	01077	SILVER, TOTAL (UG/L AS AG)	09/28/78-09/28/78	0	1	
APIS0164	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/27/90-06/27/90	0	1	
APIS0167	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/27/90-06/27/90	0	1	
APIS0169	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/27/90-06/27/90	0	1	
APIS0181	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/26/90-06/26/90	0	1	
APIS0182	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/26/90-06/26/90	0	1	
APIS0061	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/12/71-10/12/71	0	2	
APIS0208	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/13/71-10/13/71	0	3	
APIS0003	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	06/16/76-06/16/76	0	3	
APIS0061	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	06/01/71-10/12/71	0	5	
APIS0095	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/16/85-05/16/85	0	1	
APIS0159	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/28/78-09/28/78	0	1	
APIS0193	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/07/92-04/28/93	0	3	
APIS0197	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	06/16/76-06/16/76	0	4	
APIS0205	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	06/16/76-06/16/76	0	4	
APIS0208	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	06/01/71-10/13/71	0	6	
APIS0159	No	01091	ZINC, SUSPENDED (UG/L ZN)	09/28/78-09/28/78	0	1	
APIS0095	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/16/85-05/16/85	0	1	
APIS0159	No	01092	ZINC, TOTAL (UG/L AS ZN)	09/28/78-09/28/78	0	1	
APIS0193	No	01092	ZINC, TOTAL (UG/L AS ZN)	07/07/92-04/28/93	0	3	
APIS0154	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	12/11/75-12/11/75	0	1	
APIS0156	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	12/11/75-12/11/75	0	1	
APIS0157	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	12/11/75-12/11/75	0	2	
APIS0158	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	12/11/75-12/11/75	0	1	
APIS0166	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/14/72-09/14/72	0	1	
APIS0170	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/14/72-09/14/72	0	1	
APIS0171	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/14/72-09/14/72	0	1	
APIS0172	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/14/72-09/14/72	0	1	
APIS0173	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/14/72-09/14/72	0	1	
APIS0214	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/14/72-09/14/72	0	1	
APIS0215	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/14/72-09/14/72	0	1	
APIS0216	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/14/72-09/14/72	0	1	
APIS0217	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/14/72-09/14/72	0	1	
APIS0218	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/14/72-09/14/72	0	1	
APIS0095	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	05/16/85-05/16/85	0	1	
APIS0193	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	09/29/92-04/28/93	0	2	
APIS0212	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	11/01/84-11/01/84	0	1	
APIS0095	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/16/85-05/16/85	0	1	
APIS0193	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/29/92-04/28/93	0	2	
APIS0169	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	05/14/91-05/14/91	0	1	
APIS0061	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	06/01/71-10/12/71	0	5	
APIS0208	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	06/01/71-10/13/71	0	6	
APIS0095	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/16/85-05/16/85	0	1	
APIS0159	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/28/78-09/28/78	0	1	
APIS0159	No	01146	SELENIUM, SUSPENDED (UG/L AS SE)	09/28/78-09/28/78	0	1	
APIS0095	No	01147	SELENIUM, TOTAL (UG/L AS SE)	05/16/85-05/16/85	0	1	
APIS0159	No	01147	SELENIUM, TOTAL (UG/L AS SE)	09/28/78-09/28/78	0	1	
APIS0134	No	01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	08/16/74-08/16/74	0	6	
APIS0174	No	01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	08/08/74-08/08/74	0	13	
APIS0176	No	01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	10/01/77-10/01/86	9	14	S
APIS0154	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	12/11/75-12/11/75	0	1	
APIS0156	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	12/11/75-12/11/75	0	1	
APIS0157	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	12/11/75-12/11/75	0	2	
APIS0158	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	12/11/75-12/11/75	0	1	
APIS0164	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/27/90-06/27/90	0	1	
APIS0167	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/27/90-06/27/90	0	1	
APIS0169	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/27/90-05/14/91	0	2	
APIS0181	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/26/90-06/26/90	0	1	
APIS0182	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/26/90-06/26/90	0	1	
APIS0012	No	04440	PCB CONGENER #1260, TISSUE, WET WEIGHT UG/G	09/16/93-04/30/95	1	13	
APIS0064	No	04440	PCB CONGENER #1260, TISSUE, WET WEIGHT UG/G	08/29/95-08/29/95	0	3	
APIS0065	No	04440	PCB CONGENER #1260, TISSUE, WET WEIGHT UG/G	04/26/95-04/26/95	0	1	
APIS0169	No	10217	PCB CONGENER IUPAC #101 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19128	PCB CONGENER IUPAC #7 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0169	No	19129	PCB CONGENER IUPAC #6 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19130	PCB CONGENER IUPAC #5/8 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19131	PCB CONGENER IUPAC #19 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19132	PCB CONGENER IUPAC #17 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19133	PCB CONGENER IUPAC #24/27 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19134	PCB CONGENER IUPAC #16/32 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19135	PCB CONGENER IUPAC #26 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19136	PCB CONGENER IUPAC #28/31 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19137	PCB CONGENER IUPAC #33 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19139	PCB CONGENER IUPAC #45 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19140	PCB CONGENER IUPAC #46 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19141	PCB CONGENER IUPAC #52 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19142	PCB CONGENER IUPAC #49 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19143	PCB CONGENER IUPAC #47/48 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19144	PCB CONGENER IUPAC #44 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19145	PCB CONGENER IUPAC #37/42 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19146	PCB CONGENER IUPAC #41/64/71 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19147	PCB CONGENER IUPAC #40 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19148	PCB CONGENER IUPAC #74 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19149	PCB CONGENER IUPAC #70/76 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19150	PCB CONGENER IUPAC #66/95 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19151	PCB CONGENER IUPAC #91 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19152	PCB CONGENER IUPAC #56/60 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19153	PCB CONGENER IUPAC #84/92 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19154	PCB CONGENER, IUPAC #101, TISSUE, WET WEIGHT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19155	PCB CONGENER IUPAC #99 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19156	PCB CONGENER IUPAC #97 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19157	PCB CONGENER IUPAC #87 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19158	PCB CONGENER IUPAC #85 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19160	PCB CONGENER IUPAC #77/110 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19161	PCB CONGENER IUPAC #82 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19162	PCB CONGENER IUPAC #151 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19163	PCB CONGENER IUPAC #135/144 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19164	PCB CONGENER IUPAC #149 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19165	PCB CONGENER IUPAC #118 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19166	PCB CONGENER IUPAC #146 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19167	PCB CONGENER IUPAC #132/153 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19168	PCB CONGENER IUPAC #141 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19169	PCB CONGENER IUPAC #137/176 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19170	PCB CONGENER IUPAC #138/163 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19171	PCB CONGENER IUPAC #178 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19172	PCB CONGENER IUPAC #182/187 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19173	PCB CONGENER IUPAC #183 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19174	PCB CONGENER IUPAC #185 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19175	PCB CONGENER IUPAC #174 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19176	PCB CONGENER IUPAC #177 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19177	PCB CONGENER IUPAC #171/202 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19178	PCB CONGENER IUPAC #172/197 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19179	PCB CONGENER IUPAC #180 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19180	PCB CONGENER IUPAC #199 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19182	PCB CONGENER IUPAC #201 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19183	PCB CONGENER IUPAC #196/203 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19184	PCB CONGENER IUPAC #195/208 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19185	PCB CONGENER IUPAC #194 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19186	PCB CONGENER IUPAC #206 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0169	No	19190	PCB CONGENER IUPAC #7 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19191	PCB CONGENER IUPAC #6 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19192	PCB CONGENER IUPAC #5/8 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19194	PCB CONGENER IUPAC #18 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19195	PCB CONGENER IUPAC #17 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19196	PCB CONGENER IUPAC #24/27 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19198	PCB CONGENER IUPAC #26 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19199	PCB CONGENER IUPAC #28/31 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19200	PCB CONGENER IUPAC #33 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19201	PCB CONGENER IUPAC #22 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19202	PCB CONGENER IUPAC #45 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19203	PCB CONGENER IUPAC #46 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19204	PCB CONGENER IUPAC #52 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19207	PCB CONGENER IUPAC #44 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19208	PCB CONGENER IUPAC #37/42 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19211	PCB CONGENER IUPAC #74 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19212	PCB CONGENER IUPAC #70/76 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0169	No	19214	PCB CONGENER IUPAC #91 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19216	PCB CONGENER IUPAC #84/92 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19218	PCB CONGENER IUPAC #99 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19219	PCB CONGENER IUPAC #97 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19220	PCB CONGENER IUPAC #87 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19221	PCB CONGENER IUPAC #85 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19222	PCB CONGENER IUPAC #136 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19223	PCB CONGENER IUPAC #77/110 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19224	PCB CONGENER IUPAC #82 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19225	PCB CONGENER IUPAC #151 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19226	PCB CONGENER IUPAC #135/144 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19227	PCB CONGENER IUPAC #149 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19228	PCB CONGENER IUPAC #118 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19229	PCB CONGENER IUPAC #146 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19230	PCB CONGENER IUPAC #132/153 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19231	PCB CONGENER IUPAC #141 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19232	PCB CONGENER IUPAC #137/176 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19233	PCB CONGENER IUPAC #138/163 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19234	PCB CONGENER IUPAC #178 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19235	PCB CONGENER IUPAC #182/187 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19236	PCB CONGENER IUPAC #183 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19237	PCB CONGENER IUPAC #185 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19238	PCB CONGENER IUPAC #174 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19239	PCB CONGENER IUPAC #177 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19240	PCB CONGENER IUPAC #171/202 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19241	PCB CONGENER IUPAC #172/197 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19242	PCB CONGENER IUPAC #180 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19243	PCB CONGENER IUPAC #199 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19244	PCB CONGENER IUPAC #170/190 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19245	PCB CONGENER IUPAC #201 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19246	PCB CONGENER IUPAC #196/203 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19247	PCB CONGENER IUPAC #195/208 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19248	PCB CONGENER IUPAC #194 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19249	PCB CONGENER IUPAC #206 SOIL,TOTAL UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	19253	PCB CONGENER IUPAC #18 TISSUE,WET WT UG/KG	05/14/91-05/14/91	0	2	
APIS0002	No	31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	06/25/73-10/24/73	0	7	
APIS0031	No	31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	08/06/73-09/16/73	0	5	
APIS0061	No	31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	10/12/71-10/12/71	0	3	
APIS0099	No	31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	06/26/73-11/27/73	0	11	
APIS0198	No	31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	06/26/73-10/24/73	0	11	
APIS0208	No	31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	06/01/71-10/13/71	0	5	
APIS0209	No	31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	08/27/68-08/27/68	0	2	
APIS0002	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/21/73-05/21/73	0	1	
APIS0009	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/13/86-09/07/87	1	43	
APIS0031	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/06/73-08/06/73	0	1	
APIS0036	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/13/86-08/23/88	2	84	
APIS0040	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/13/86-08/09/88	2	82	
APIS0046	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/18/88-08/09/88	0	3	
APIS0048	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/18/88-08/09/88	0	3	
APIS0049	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/18/88-08/09/88	0	3	
APIS0072	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/13/86-09/11/87	1	55	
APIS0099	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/22/73-09/16/73	0	2	
APIS0146	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/15/88-08/23/88	0	2	
APIS0149	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/15/88-08/23/88	0	2	
APIS0150	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/15/88-08/23/88	0	2	
APIS0152	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/15/88-08/23/88	0	2	
APIS0160	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/26/87-09/04/87	0	20	
APIS0161	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/08/87-09/04/87	0	19	
APIS0165	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/15/88-08/23/88	0	2	
APIS0186	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/13/86-09/11/87	1	55	
APIS0198	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/06/73-08/06/73	0	1	
APIS0208	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/13/71-10/13/71	0	1	
APIS0030	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	08/06/80-08/06/80	0	1	
APIS0037	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	08/07/80-08/07/80	0	1	
APIS0038	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	07/23/81-09/09/81	0	2	
APIS0042	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	08/08/80-08/08/80	0	1	
APIS0050	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	08/07/80-08/07/80	0	1	
APIS0056	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	08/07/80-08/07/80	0	1	
APIS0066	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	08/07/80-08/07/80	0	1	
APIS0067	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	07/23/81-09/09/81	0	2	
APIS0069	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	07/23/81-09/09/81	0	2	
APIS0070	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	08/07/80-08/07/80	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0071	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	07/23/81-09/09/81	0	2	
APIS0091	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	07/23/81-09/09/81	0	2	
APIS0144	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	07/23/81-09/09/81	0	2	
APIS0148	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	07/23/81-09/09/81	0	2	
APIS0151	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	07/23/81-09/09/81	0	2	
APIS0155	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	07/23/81-09/09/81	0	2	
APIS0189	No	31633	E.COLI,THERMOTOL,MF,M-TEC,IN SITU UREASE #/100ML	06/28/94-06/28/94	0	1	
APIS0189	No	31639	ENTEROCOCCI GROUP D,MF TRANS,M-E,EIA #/100ML	06/28/94-06/28/94	0	1	
APIS0002	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/21/73-05/21/73	0	1	
APIS0009	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/13/86-09/07/87	1	43	
APIS0030	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/06/80-08/06/80	0	1	
APIS0031	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/22/73-06/26/73	0	3	
APIS0036	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/13/86-08/23/88	2	84	
APIS0037	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/07/80-08/07/80	0	1	
APIS0038	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/23/81-09/09/81	0	2	
APIS0040	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/13/86-08/09/88	2	81	
APIS0042	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/08/80-08/08/80	0	1	
APIS0046	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/18/88-08/09/88	0	3	
APIS0048	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/18/88-08/09/88	0	3	
APIS0049	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/18/88-08/09/88	0	3	
APIS0050	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/07/80-08/07/80	0	1	
APIS0056	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/07/80-08/07/80	0	1	
APIS0066	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/07/80-08/07/80	0	1	
APIS0067	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/23/81-09/09/81	0	2	
APIS0069	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/23/81-09/09/81	0	2	
APIS0070	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/07/80-08/07/80	0	1	
APIS0071	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/23/81-09/09/81	0	2	
APIS0072	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/13/86-09/11/87	1	56	
APIS0091	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/23/81-09/09/81	0	2	
APIS0099	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/22/73-11/27/73	0	6	
APIS0144	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/23/81-09/09/81	0	2	
APIS0146	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/15/88-08/23/88	0	2	
APIS0148	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/23/81-09/09/81	0	2	
APIS0149	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/15/88-08/23/88	0	2	
APIS0150	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/15/88-08/23/88	0	2	
APIS0151	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/23/81-09/09/81	0	2	
APIS0152	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/15/88-08/23/88	0	2	
APIS0155	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/23/81-09/09/81	0	2	
APIS0160	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/26/87-09/04/87	0	20	
APIS0161	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/08/87-09/04/87	0	19	
APIS0165	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/15/88-08/23/88	0	2	
APIS0186	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/13/86-09/11/87	1	56	
APIS0198	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/22/73-10/24/73	0	6	
APIS0002	No	31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	06/25/73-10/24/73	0	9	
APIS0031	No	31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	06/26/73-09/16/73	0	6	
APIS0061	No	31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	06/01/71-10/12/71	0	5	
APIS0099	No	31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	06/26/73-11/27/73	0	7	
APIS0198	No	31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	06/26/73-11/28/73	0	9	
APIS0208	No	31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	06/01/71-10/13/71	0	7	
APIS0209	No	31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	08/27/68-08/27/68	0	4	
APIS0004	No	32000	SAMPLE SIZE (LITERS)	05/17/87-05/17/87	0	1	
APIS0097	No	32000	SAMPLE SIZE (LITERS)	05/17/87-05/17/87	0	1	
APIS0016	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/10/96-08/20/96	0	2	
APIS0025	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/09/96-08/20/96	0	2	
APIS0027	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/11/96-08/20/96	0	3	
APIS0039	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/10/96-08/20/96	0	3	
APIS0054	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/11/96-08/21/96	0	3	
APIS0087	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/09/96-08/21/96	0	2	
APIS0162	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/11/96-08/21/96	0	3	
APIS0203	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/12/96-08/21/96	0	3	
APIS0001	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/24/83-10/22/83	0	4	
APIS0004	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/17/87-05/07/89	1	2	
APIS0005	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/15/91-09/03/91	0	2	
APIS0006	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/06/90-05/06/90	0	1	
APIS0007	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/11/92-09/09/92	0	2	
APIS0008	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/07/89-05/07/89	0	1	
APIS0017	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/07/89-05/07/89	0	1	
APIS0019	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/06/90-09/07/90	0	2	
APIS0020	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/11/92-09/09/92	0	2	
APIS0021	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/17/87-05/07/89	1	2	
APIS0022	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/24/83-10/22/83	0	4	
APIS0024	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/15/91-09/03/91	0	2	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0032	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/24/83-10/22/83	0	4	
APIS0060	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	08/26/68-11/05/70	2	4	
APIS0061	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	07/06/71-10/12/71	0	2	
APIS0096	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/07/90-09/07/90	0	2	
APIS0097	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/17/87-05/07/89	1	2	
APIS0098	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/07/89-05/07/89	0	1	
APIS0100	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/15/91-09/03/91	0	3	
APIS0101	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/11/92-09/09/92	0	2	
APIS0102	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/24/83-10/22/83	0	10	
APIS0127	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	07/18/79-07/18/79	0	1	
APIS0195	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/06/90-09/07/90	0	2	
APIS0196	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/11/92-09/09/92	0	2	
APIS0199	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/24/83-10/21/83	0	4	
APIS0200	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/06/89-05/06/89	0	1	
APIS0201	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/16/87-05/06/89	1	2	
APIS0202	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/15/91-09/03/91	0	2	
APIS0208	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	06/01/71-10/13/71	0	3	
APIS0209	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	08/27/68-11/05/70	2	3	
APIS0001	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/24/83-10/22/83	0	4	
APIS0004	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/17/87-05/07/89	1	2	
APIS0005	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/15/91-09/03/91	0	2	
APIS0006	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/06/90-05/06/90	0	1	
APIS0007	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/11/92-09/09/92	0	2	
APIS0008	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/07/89-05/07/89	0	1	
APIS0017	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/07/89-05/07/89	0	1	
APIS0019	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/06/90-09/07/90	0	2	
APIS0020	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/11/92-09/09/92	0	2	
APIS0021	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/17/87-05/07/89	1	2	
APIS0022	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/24/83-10/22/83	0	4	
APIS0024	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/15/91-09/03/91	0	2	
APIS0032	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/24/83-10/22/83	0	4	
APIS0096	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/07/90-09/07/90	0	2	
APIS0097	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/17/87-05/07/89	1	2	
APIS0098	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/07/89-05/07/89	0	1	
APIS0100	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/15/91-09/03/91	0	3	
APIS0101	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/11/92-09/09/92	0	2	
APIS0102	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/24/83-10/22/83	0	10	
APIS0195	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/06/90-09/07/90	0	2	
APIS0196	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/11/92-09/09/92	0	2	
APIS0199	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/24/83-10/21/83	0	4	
APIS0200	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/06/89-05/06/89	0	1	
APIS0201	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/16/87-05/06/89	1	2	
APIS0202	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/15/91-09/03/91	0	2	
APIS0169	No	34203	ACENAPHTHYLENE DRY WGTBOTUG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	34208	ACENAPHTHENE DRY WGTBOTUG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	34223	ANTHRACENE DRY WGTBOTUG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	34233	BENZO(B)FLUORANTHENE,SEDIMENTS,DRY WGT,UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	34245	BENZO(K)FLUORANTHENE, DRY WT, SEDIMENT UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	34323	CHRYSENE DRY WGTBOTUG/KG	05/14/91-05/14/91	0	1	
APIS0004	No	34367	ENDRIN ALDEHYDE DISSUG/L	05/17/87-05/17/87	0	1	
APIS0097	No	34367	ENDRIN ALDEHYDE DISSUG/L	05/17/87-05/17/87	0	1	
APIS0169	No	34379	FLUORANTHENE DRY WGTBOTUG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	34384	FLUORENE DRY WGTBOTUG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	34406	INDENO (1,2,3-CD) PYRENE DRY WGTBOTUG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	34464	PHENANTHRENE DRY WGTBOTUG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	34472	PYRENE DRY WGTBOTUG/KG	05/14/91-05/14/91	0	1	
APIS0164	No	34480	THALLIUM DRY WGTBOTMG/KG	06/27/90-06/27/90	0	1	
APIS0167	No	34480	THALLIUM DRY WGTBOTMG/KG	06/27/90-06/27/90	0	1	
APIS0169	No	34480	THALLIUM DRY WGTBOTMG/KG	06/27/90-06/27/90	0	1	
APIS0181	No	34480	THALLIUM DRY WGTBOTMG/KG	06/26/90-06/26/90	0	1	
APIS0182	No	34480	THALLIUM DRY WGTBOTMG/KG	06/26/90-06/26/90	0	1	
APIS0004	No	34536	1,2-DICHLOROBENZENE TOTWUG/L	05/17/87-05/17/87	0	1	
APIS0097	No	34536	1,2-DICHLOROBENZENE TOTWUG/L	05/17/87-05/17/87	0	1	
APIS0004	No	34551	1,2,4-TRICHLOROBENZENE TOTWUG/L	05/17/87-05/17/87	0	1	
APIS0097	No	34551	1,2,4-TRICHLOROBENZENE TOTWUG/L	05/17/87-05/17/87	0	1	
APIS0169	No	34559	1,2,5,6-DIBENZANTHRACENE DRY WGTBOTUG/KG	05/14/91-05/14/91	0	1	
APIS0004	No	34571	1,4-DICHLOROBENZENE TOTWUG/L	05/17/87-05/17/87	0	1	
APIS0097	No	34571	1,4-DICHLOROBENZENE TOTWUG/L	05/17/87-05/17/87	0	1	
APIS0011	No	34670	PCB - 1260 WET WGTTISMG/KG	04/27/91-04/27/91	0	4	
APIS0012	No	34670	PCB - 1260 WET WGTTISMG/KG	10/13/88-08/01/91	2	13	
APIS0065	No	34670	PCB - 1260 WET WGTTISMG/KG	04/21/88-04/24/91	3	5	
APIS0143	No	34670	PCB - 1260 WET WGTTISMG/KG	05/08/91-05/08/91	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0163	No	34670	PCB - 1260 WET WGTTISMG/KG	09/14/88-09/14/88	0	1	
APIS0211	No	34670	PCB - 1260 WET WGTTISMG/KG	03/31/87-03/31/87	0	1	
APIS0010	No	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	11/01/77-11/01/79	2	32	
APIS0012	No	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	06/06/84-10/13/85	1	5	
APIS0063	No	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	07/27/84-08/24/84	0	5	
APIS0163	No	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	08/22/78-08/21/84	5	17	
APIS0176	No	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	10/01/86-10/01/86	0	3	
APIS0010	No	34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	11/01/77-11/01/79	2	32	
APIS0134	No	34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	08/16/74-08/16/74	0	6	
APIS0174	No	34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	08/08/74-08/08/74	0	11	
APIS0176	No	34684	DIELDRIN TISMG/KG	10/01/69-10/01/86	17	41	T,S
APIS0176	No	34685	ENDRIN WET WGTTISMG/KG	10/01/70-10/01/86	16	38	T,S
APIS0176	No	34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	10/01/86-10/01/86	0	3	
APIS0010	No	34687	HEPTACHLOR WET WGTTISMG/KG	11/01/77-11/01/79	2	32	
APIS0176	No	34687	HEPTACHLOR WET WGTTISMG/KG	10/01/69-10/01/86	17	41	T,S
APIS0176	No	34688	HEXACHLOROBENZENE WET WGTTISMG/KG	10/01/77-10/01/86	9	14	S
APIS0010	No	34690	PCB - 1254 WET WGTTISMG/KG	11/01/77-11/01/79	2	32	
APIS0011	No	34690	PCB - 1254 WET WGTTISMG/KG	08/04/92-08/04/92	0	1	
APIS0063	No	34690	PCB - 1254 WET WGTTISMG/KG	07/23/92-08/05/92	0	2	
APIS0064	No	34690	PCB - 1254 WET WGTTISMG/KG	07/28/92-07/28/92	0	1	
APIS0140	No	34690	PCB - 1254 WET WGTTISMG/KG	07/28/92-08/11/92	0	2	
APIS0143	No	34690	PCB - 1254 WET WGTTISMG/KG	07/21/92-08/06/92	0	2	
APIS0012	No	34691	TOXAPHENE WET WGTTISMG/KG	10/19/86-10/19/86	0	1	
APIS0140	No	34691	TOXAPHENE WET WGTTISMG/KG	10/26/82-10/26/82	0	2	
APIS0163	No	34691	TOXAPHENE WET WGTTISMG/KG	08/18/86-08/18/86	0	3	
APIS0176	No	34691	TOXAPHENE WET WGTTISMG/KG	10/01/71-10/01/86	15	34	T,S
APIS0211	No	34691	TOXAPHENE WET WGTTISMG/KG	07/24/85-03/31/87	1	5	
APIS0088	No	39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	3	
APIS0118	No	39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	3	
APIS0145	No	39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	6	
APIS0188	No	39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	07/22/81-07/22/81	0	3	
APIS0001	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/24/83-10/22/83	0	15	
APIS0004	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/17/87-05/07/89	1	2	
APIS0005	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/15/91-09/03/91	0	6	
APIS0006	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/06/90-05/06/90	0	1	
APIS0007	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/11/92-09/09/92	0	5	
APIS0008	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/07/89-05/07/89	0	1	
APIS0017	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/07/89-05/07/89	0	1	
APIS0019	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/06/90-09/07/90	0	5	
APIS0020	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/11/92-09/09/92	0	4	
APIS0021	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/16/86-05/07/89	2	3	
APIS0022	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/24/83-10/22/83	0	14	
APIS0024	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/15/91-09/03/91	0	7	
APIS0032	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/24/83-10/22/83	0	12	
APIS0095	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/16/85-05/16/85	0	1	
APIS0096	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/07/90-09/07/90	0	4	
APIS0097	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/16/86-05/07/89	2	3	
APIS0098	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/07/89-05/07/89	0	1	
APIS0100	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/15/91-09/03/91	0	7	
APIS0101	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/11/92-09/09/92	0	6	
APIS0102	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/24/83-10/22/83	0	16	
APIS0195	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/06/90-09/07/90	0	6	
APIS0196	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/11/92-09/09/92	0	6	
APIS0199	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/24/83-10/21/83	0	16	
APIS0200	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/06/89-05/06/89	0	1	
APIS0201	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/16/86-05/06/89	2	3	
APIS0202	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/15/91-09/03/91	0	7	
APIS0012	No	39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	06/06/84-10/13/85	1	5	
APIS0063	No	39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	07/27/84-07/27/84	0	4	
APIS0163	No	39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	08/22/78-08/21/84	5	15	
APIS0011	No	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	08/09/88-08/04/92	3	8	
APIS0012	No	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	12	79	T,A,S
APIS0063	No	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	07/27/84-08/05/92	8	7	
APIS0064	No	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	07/28/92-08/29/95	3	4	
APIS0065	No	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	04/21/88-04/26/95	7	11	
APIS0140	No	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/17/87-08/11/92	4	7	
APIS0142	No	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	07/29/85-05/02/89	3	3	
APIS0143	No	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	07/20/88-08/06/92	4	8	
APIS0163	No	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	08/22/78-09/14/88	10	24	T,S
APIS0176	No	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/01/77-10/01/86	9	14	S
APIS0211	No	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	07/23/85-03/31/87	1	14	
APIS0011	No	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	08/09/88-08/04/92	3	8	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0012	No	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	12	79	T,A,S
APIS0063	No	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	07/27/84-08/05/92	8	7	
APIS0064	No	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	07/28/92-08/29/95	3	4	
APIS0065	No	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	04/21/88-04/26/95	7	11	
APIS0140	No	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/17/87-08/11/92	4	7	
APIS0142	No	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	07/29/85-05/02/89	3	3	
APIS0143	No	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	07/20/88-08/06/92	4	8	
APIS0163	No	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	08/22/78-09/14/88	10	24	T,S
APIS0176	No	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/01/77-10/01/86	9	14	S
APIS0211	No	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	07/23/85-03/31/87	1	14	
APIS0012	No	39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	10/23/82-10/19/86	3	29	
APIS0063	No	39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	07/27/84-08/24/84	0	5	
APIS0142	No	39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	07/29/85-07/29/85	0	1	
APIS0163	No	39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	08/21/79-08/21/84	5	14	
APIS0176	No	39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	10/01/77-10/01/86	9	14	S
APIS0211	No	39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	07/23/85-03/31/87	1	10	
APIS0012	No	39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	10/23/82-10/19/86	3	29	
APIS0063	No	39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	07/27/84-08/24/84	0	5	
APIS0142	No	39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	07/29/85-07/29/85	0	1	
APIS0163	No	39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	08/21/79-08/21/84	5	13	
APIS0176	No	39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	10/01/77-10/01/86	9	14	S
APIS0211	No	39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	07/23/85-03/31/87	1	10	
APIS0012	No	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	06/06/84-10/13/85	1	4	
APIS0063	No	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	07/27/84-08/24/84	0	5	
APIS0163	No	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	08/22/78-08/21/84	5	16	
APIS0176	No	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	10/01/69-10/01/86	17	21	T,S
APIS0012	No	39075	BHC- GAMMA ISOMER, TISSUE WET WGT (UG/G)	06/06/84-10/13/85	1	4	
APIS0063	No	39075	BHC- GAMMA ISOMER, TISSUE WET WGT (UG/G)	07/27/84-08/24/84	0	5	
APIS0163	No	39075	BHC- GAMMA ISOMER, TISSUE WET WGT (UG/G)	08/22/78-08/21/84	5	17	
APIS0010	No	39105	PERCENT FAT HEXANE EXTRACTION	11/01/77-11/01/79	2	32	
APIS0094	No	39105	PERCENT FAT HEXANE EXTRACTION	08/11/76-11/08/76	0	3	
APIS0134	No	39105	PERCENT FAT HEXANE EXTRACTION	08/16/74-09/17/74	0	7	
APIS0174	No	39105	PERCENT FAT HEXANE EXTRACTION	08/01/74-08/08/74	0	16	
APIS0176	No	39105	PERCENT FAT HEXANE EXTRACTION	10/01/69-10/01/86	17	41	T,S
APIS0194	No	39105	PERCENT FAT HEXANE EXTRACTION	07/23/76-07/23/76	0	1	
APIS0207	No	39105	PERCENT FAT HEXANE EXTRACTION	07/28/76-07/28/76	0	1	
APIS0210	No	39105	PERCENT FAT HEXANE EXTRACTION	07/23/76-07/23/76	0	8	
APIS0088	No	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	07/21/81-07/21/81	0	3	
APIS0118	No	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	07/21/81-07/21/81	0	3	
APIS0145	No	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	07/21/81-07/21/81	0	6	
APIS0188	No	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	07/22/81-07/22/81	0	3	
APIS0088	No	39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	07/21/81-07/21/81	0	1	
APIS0118	No	39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	07/21/81-07/21/81	0	1	
APIS0145	No	39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	07/21/81-07/21/81	0	2	
APIS0175	No	39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0187	No	39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0188	No	39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	07/22/81-07/22/81	0	1	
APIS0190	No	39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0213	No	39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0176	No	39290	DDT TOTAL IN TISSUE WET WGT BASIS (UG/G)	10/01/69-10/01/86	17	41	T,S
APIS0099	No	39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	05/22/73-11/27/73	0	10	
APIS0010	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	11/01/77-11/01/79	2	32	
APIS0011	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	08/09/88-08/04/92	3	8	
APIS0012	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	10/23/82-04/30/95	12	67	T,S
APIS0063	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	07/27/84-08/05/92	8	7	
APIS0064	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	07/28/92-08/29/95	3	4	
APIS0065	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	04/21/88-04/26/95	7	11	
APIS0134	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	08/16/74-08/16/74	0	6	
APIS0140	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	10/17/87-08/11/92	4	7	
APIS0142	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	07/29/85-05/02/89	3	3	
APIS0143	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	07/20/88-08/06/92	4	8	
APIS0163	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	08/21/79-09/12/88	9	20	T,S
APIS0174	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	08/08/74-08/08/74	0	12	
APIS0211	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	07/23/85-03/31/87	1	14	
APIS0099	No	39305	O,P' DDT IN WHOLE WATER SAMPLE (UG/L)	05/22/73-11/27/73	0	10	
APIS0010	No	39307	O P DDT IN TISSUE WET WGT (UG/G)	11/01/77-11/01/79	2	32	
APIS0011	No	39307	O P DDT IN TISSUE WET WGT (UG/G)	08/09/88-08/04/92	3	8	
APIS0012	No	39307	O P DDT IN TISSUE WET WGT (UG/G)	10/23/82-04/30/95	12	67	T,S
APIS0063	No	39307	O P DDT IN TISSUE WET WGT (UG/G)	07/27/84-08/05/92	8	7	
APIS0064	No	39307	O P DDT IN TISSUE WET WGT (UG/G)	07/28/92-08/29/95	3	4	
APIS0065	No	39307	O P DDT IN TISSUE WET WGT (UG/G)	04/21/88-04/26/95	7	11	
APIS0140	No	39307	O P DDT IN TISSUE WET WGT (UG/G)	10/17/87-08/11/92	4	7	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0142	No	39307	O P DDT IN TISSUE WET WGT (UG/G)	07/29/85-05/02/89	3	3	
APIS0143	No	39307	O P DDT IN TISSUE WET WGT (UG/G)	07/20/88-08/06/92	4	8	
APIS0163	No	39307	O P DDT IN TISSUE WET WGT (UG/G)	08/21/79-09/12/88	9	20	T,S
APIS0211	No	39307	O P DDT IN TISSUE WET WGT (UG/G)	07/23/85-03/31/87	1	14	
APIS0099	No	39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	05/22/73-11/27/73	0	10	
APIS0010	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	11/01/77-11/01/79	2	32	
APIS0011	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	08/09/88-08/04/92	3	8	
APIS0012	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	10/23/82-04/30/95	12	67	T,S
APIS0063	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	07/27/84-08/05/92	8	7	
APIS0064	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	07/28/92-08/29/95	3	4	
APIS0065	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	04/21/88-04/26/95	7	11	
APIS0134	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	08/16/74-08/16/74	0	6	
APIS0140	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	10/17/87-08/11/92	4	7	
APIS0142	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	07/29/85-05/02/89	3	3	
APIS0143	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	07/20/88-08/06/92	4	8	
APIS0163	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	08/21/79-09/12/88	9	20	T,S
APIS0174	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	08/08/74-08/08/74	0	12	
APIS0211	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	07/23/85-03/31/87	1	14	
APIS0099	No	39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	05/22/73-11/27/73	0	10	
APIS0169	No	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/14/91-05/14/91	0	1	
APIS0010	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	11/01/77-11/01/79	2	32	
APIS0011	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	08/09/88-08/04/92	3	8	
APIS0012	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	10/23/82-04/30/95	12	67	T,S
APIS0063	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	07/27/84-08/05/92	8	7	
APIS0064	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	07/28/92-08/29/95	3	4	
APIS0065	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	04/21/88-04/26/95	7	11	
APIS0134	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	08/16/74-08/16/74	0	6	
APIS0140	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	10/17/87-08/11/92	4	7	
APIS0142	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	07/29/85-05/02/89	3	3	
APIS0143	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	07/20/88-08/06/92	4	8	
APIS0163	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	08/22/78-09/12/88	10	23	T,S
APIS0174	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	08/08/74-08/08/74	0	12	
APIS0211	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	07/23/85-03/31/87	1	14	
APIS0010	No	39325	O,P DDD IN TISSUE WET WGT (UG/G)	11/01/77-11/01/79	2	32	
APIS0011	No	39325	O,P DDD IN TISSUE WET WGT (UG/G)	08/09/88-08/04/92	3	8	
APIS0012	No	39325	O,P DDD IN TISSUE WET WGT (UG/G)	10/23/82-04/30/95	12	67	T,S
APIS0063	No	39325	O,P DDD IN TISSUE WET WGT (UG/G)	07/27/84-08/05/92	8	7	
APIS0064	No	39325	O,P DDD IN TISSUE WET WGT (UG/G)	07/28/92-08/29/95	3	4	
APIS0065	No	39325	O,P DDD IN TISSUE WET WGT (UG/G)	04/21/88-04/26/95	7	11	
APIS0140	No	39325	O,P DDD IN TISSUE WET WGT (UG/G)	10/17/87-08/11/92	4	7	
APIS0142	No	39325	O,P DDD IN TISSUE WET WGT (UG/G)	07/29/85-05/02/89	3	3	
APIS0143	No	39325	O,P DDD IN TISSUE WET WGT (UG/G)	07/20/88-08/06/92	4	8	
APIS0163	No	39325	O,P DDD IN TISSUE WET WGT (UG/G)	08/21/79-09/12/88	9	20	T,S
APIS0211	No	39325	O,P DDD IN TISSUE WET WGT (UG/G)	07/23/85-03/31/87	1	14	
APIS0011	No	39329	O,P DDE IN TISSUE, WET WGT(UG/G)	08/09/88-08/04/92	3	8	
APIS0012	No	39329	O,P DDE IN TISSUE, WET WGT(UG/G)	10/23/82-04/30/95	12	67	T,S
APIS0063	No	39329	O,P DDE IN TISSUE, WET WGT(UG/G)	07/27/84-08/05/92	8	7	
APIS0064	No	39329	O,P DDE IN TISSUE, WET WGT(UG/G)	07/28/92-08/29/95	3	4	
APIS0065	No	39329	O,P DDE IN TISSUE, WET WGT(UG/G)	04/21/88-04/26/95	7	11	
APIS0140	No	39329	O,P DDE IN TISSUE, WET WGT(UG/G)	10/17/87-08/11/92	4	7	
APIS0142	No	39329	O,P DDE IN TISSUE, WET WGT(UG/G)	07/29/85-05/02/89	3	3	
APIS0143	No	39329	O,P DDE IN TISSUE, WET WGT(UG/G)	07/20/88-08/06/92	4	8	
APIS0163	No	39329	O,P DDE IN TISSUE, WET WGT(UG/G)	08/21/79-09/12/88	9	20	T,S
APIS0211	No	39329	O,P DDE IN TISSUE, WET WGT(UG/G)	07/23/85-03/31/87	1	14	
APIS0088	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	3	
APIS0099	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	05/22/73-11/27/73	0	10	
APIS0118	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	3	
APIS0145	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	6	
APIS0188	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/22/81-07/22/81	0	3	
APIS0088	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	0	1	
APIS0118	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	0	1	
APIS0145	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	0	2	
APIS0175	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0187	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0188	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/22/81-07/22/81	0	1	
APIS0190	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0213	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0004	No	39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	05/17/87-05/17/87	0	1	
APIS0097	No	39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	05/17/87-05/17/87	0	1	
APIS0088	No	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	07/21/81-07/21/81	0	3	
APIS0118	No	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	07/21/81-07/21/81	0	3	
APIS0145	No	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	07/21/81-07/21/81	0	6	

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Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0188	No	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	07/22/81-07/22/81	0	3	
APIS0088	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	07/21/81-07/21/81	0	1	
APIS0118	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	07/21/81-07/21/81	0	1	
APIS0145	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	07/21/81-07/21/81	0	2	
APIS0175	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	08/22/89-08/22/89	0	1	
APIS0187	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	08/22/89-08/22/89	0	1	
APIS0188	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	07/22/81-07/22/81	0	1	
APIS0190	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	08/22/89-08/22/89	0	1	
APIS0213	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	08/22/89-08/22/89	0	1	
APIS0004	No	39348	CHLORDANE, ALPHA, IN WHOLE WATER SAMPLE (UG/L)	05/17/87-05/17/87	0	1	
APIS0099	No	39348	CHLORDANE, ALPHA, IN WHOLE WATER SAMPLE (UG/L)	05/22/73-11/27/73	0	10	
APIS0088	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	07/21/81-07/21/81	0	3	
APIS0118	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	07/21/81-07/21/81	0	3	
APIS0145	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	07/21/81-07/21/81	0	6	
APIS0188	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	07/22/81-07/22/81	0	3	
APIS0088	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	07/21/81-07/21/81	0	1	
APIS0118	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	07/21/81-07/21/81	0	1	
APIS0145	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	07/21/81-07/21/81	0	2	
APIS0175	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	08/22/89-08/22/89	0	1	
APIS0187	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	08/22/89-08/22/89	0	1	
APIS0188	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	07/22/81-07/22/81	0	1	
APIS0190	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	08/22/89-08/22/89	0	1	
APIS0213	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	08/22/89-08/22/89	0	1	
APIS0088	No	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	3	
APIS0118	No	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	3	
APIS0145	No	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	6	
APIS0188	No	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	07/22/81-07/22/81	0	3	
APIS0088	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	0	1	
APIS0118	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	0	1	
APIS0145	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	0	2	
APIS0175	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0187	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0188	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/22/81-07/22/81	0	1	
APIS0190	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0213	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0088	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	3	
APIS0118	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	3	
APIS0145	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	6	
APIS0188	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	07/22/81-07/22/81	0	3	
APIS0088	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	0	1	
APIS0118	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	0	1	
APIS0145	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	0	2	
APIS0175	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0187	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0188	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/22/81-07/22/81	0	1	
APIS0190	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0213	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0088	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	3	
APIS0118	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	3	
APIS0145	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	6	
APIS0188	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	07/22/81-07/22/81	0	3	
APIS0088	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	0	1	
APIS0118	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	0	1	
APIS0145	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	0	2	
APIS0175	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0187	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0188	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/22/81-07/22/81	0	1	
APIS0190	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0213	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0004	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	05/17/87-05/17/87	0	1	
APIS0088	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	3	
APIS0097	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	05/17/87-05/17/87	0	1	
APIS0099	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	05/22/73-11/27/73	0	10	
APIS0118	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	3	
APIS0145	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	6	
APIS0188	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	07/22/81-07/22/81	0	3	
APIS0088	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/21/81-07/21/81	0	1	
APIS0118	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/21/81-07/21/81	0	1	
APIS0145	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/21/81-07/21/81	0	2	
APIS0175	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/22/89-08/22/89	0	1	
APIS0187	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/22/89-08/22/89	0	1	
APIS0188	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/22/81-07/22/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0190	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/22/89-08/22/89	0	1	
APIS0213	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/22/89-08/22/89	0	1	
APIS0088	No	39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	3	
APIS0118	No	39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	3	
APIS0145	No	39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	6	
APIS0188	No	39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	07/22/81-07/22/81	0	3	
APIS0088	No	39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/21/81-07/21/81	0	1	
APIS0118	No	39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/21/81-07/21/81	0	1	
APIS0145	No	39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/21/81-07/21/81	0	2	
APIS0175	No	39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0187	No	39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0188	No	39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/22/81-07/22/81	0	1	
APIS0190	No	39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0213	No	39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0088	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	3	
APIS0099	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	05/22/73-11/27/73	0	10	
APIS0118	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	3	
APIS0145	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	6	
APIS0188	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	07/22/81-07/22/81	0	3	
APIS0088	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	0	1	
APIS0118	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	0	1	
APIS0145	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	0	2	
APIS0175	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0187	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0188	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/22/81-07/22/81	0	1	
APIS0190	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0213	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0012	No	39397	ENDRIN IN SHELLFISH OR ANIMAL (UG/KG WET WEIGHT)	10/23/82-10/13/85	2	25	
APIS0063	No	39397	ENDRIN IN SHELLFISH OR ANIMAL (UG/KG WET WEIGHT)	07/27/84-08/24/84	0	5	
APIS0163	No	39397	ENDRIN IN SHELLFISH OR ANIMAL (UG/KG WET WEIGHT)	08/22/78-08/21/84	5	17	
APIS0088	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	3	
APIS0118	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	3	
APIS0145	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	6	
APIS0188	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	07/22/81-07/22/81	0	3	
APIS0088	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/21/81-07/21/81	0	1	
APIS0118	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/21/81-07/21/81	0	1	
APIS0145	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/21/81-07/21/81	0	2	
APIS0175	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/22/89-08/22/89	0	1	
APIS0187	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/22/89-08/22/89	0	1	
APIS0188	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/22/81-07/22/81	0	1	
APIS0190	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/22/89-08/22/89	0	1	
APIS0213	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/22/89-08/22/89	0	1	
APIS0010	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	11/01/77-11/01/79	2	32	
APIS0011	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	08/09/88-08/04/92	3	8	
APIS0012	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	10/23/82-04/30/95	12	70	T,S
APIS0063	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	07/27/84-08/05/92	8	7	
APIS0064	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	07/28/92-08/29/95	3	4	
APIS0065	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	04/21/88-04/26/95	7	11	
APIS0134	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	08/16/74-08/16/74	0	6	
APIS0140	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	10/17/87-08/11/92	4	7	
APIS0142	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	07/29/85-05/02/89	3	3	
APIS0143	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	07/20/88-08/06/92	4	8	
APIS0163	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	08/22/78-09/14/88	10	24	T,S
APIS0174	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	08/08/74-08/08/74	0	12	
APIS0211	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	07/23/85-03/31/87	1	14	
APIS0011	No	39407	TOXAPHENE IN FISH OR ANIMAL(UG/KG WET WEIGHT)	08/09/88-08/09/88	0	3	
APIS0012	No	39407	TOXAPHENE IN FISH OR ANIMAL(UG/KG WET WEIGHT)	10/13/88-10/13/88	0	2	
APIS0065	No	39407	TOXAPHENE IN FISH OR ANIMAL(UG/KG WET WEIGHT)	04/21/88-04/22/88	0	2	
APIS0140	No	39407	TOXAPHENE IN FISH OR ANIMAL(UG/KG WET WEIGHT)	08/05/88-08/18/88	0	2	
APIS0142	No	39407	TOXAPHENE IN FISH OR ANIMAL(UG/KG WET WEIGHT)	07/27/88-07/27/88	0	1	
APIS0143	No	39407	TOXAPHENE IN FISH OR ANIMAL(UG/KG WET WEIGHT)	07/20/88-07/27/88	0	5	
APIS0163	No	39407	TOXAPHENE IN FISH OR ANIMAL(UG/KG WET WEIGHT)	08/05/88-09/14/88	0	7	
APIS0211	No	39407	TOXAPHENE IN FISH OR ANIMAL(UG/KG WET WEIGHT)	03/31/87-03/31/87	0	1	
APIS0088	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	3	
APIS0099	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	05/22/73-11/27/73	0	10	
APIS0118	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	3	
APIS0145	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	6	
APIS0188	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	07/22/81-07/22/81	0	3	
APIS0088	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	0	1	
APIS0118	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	0	1	
APIS0145	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	0	2	
APIS0175	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0187	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0188	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	07/22/81-07/22/81	0	1	
APIS0190	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0213	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0004	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	05/17/87-05/17/87	0	1	
APIS0088	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	3	
APIS0097	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	05/17/87-05/17/87	0	1	
APIS0099	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	05/22/73-11/27/73	0	10	
APIS0118	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	3	
APIS0145	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	6	
APIS0188	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	07/22/81-07/22/81	0	3	
APIS0088	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	07/21/81-07/21/81	0	1	
APIS0118	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	07/21/81-07/21/81	0	1	
APIS0145	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	07/21/81-07/21/81	0	2	
APIS0175	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	08/22/89-08/22/89	0	1	
APIS0187	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	08/22/89-08/22/89	0	1	
APIS0188	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	07/22/81-07/22/81	0	1	
APIS0190	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	08/22/89-08/22/89	0	1	
APIS0213	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	08/22/89-08/22/89	0	1	
APIS0088	No	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	3	
APIS0099	No	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	05/22/73-11/27/73	0	10	
APIS0118	No	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	3	
APIS0145	No	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	6	
APIS0188	No	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	07/22/81-07/22/81	0	3	
APIS0088	No	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	07/21/81-07/21/81	0	1	
APIS0118	No	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	07/21/81-07/21/81	0	1	
APIS0145	No	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	07/21/81-07/21/81	0	2	
APIS0175	No	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	08/22/89-08/22/89	0	1	
APIS0187	No	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	08/22/89-08/22/89	0	1	
APIS0188	No	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	07/22/81-07/22/81	0	1	
APIS0190	No	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	08/22/89-08/22/89	0	1	
APIS0213	No	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	08/22/89-08/22/89	0	1	
APIS0099	No	39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	05/22/73-11/27/73	0	10	
APIS0099	No	39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	05/22/73-11/27/73	0	10	
APIS0011	No	39515	PCBS (MG/KG) FISH TISSUE MG/KG	08/09/88-08/09/88	0	3	
APIS0012	No	39515	PCBS (MG/KG) FISH TISSUE MG/KG	10/23/82-09/18/93	10	53	T,S
APIS0063	No	39515	PCBS (MG/KG) FISH TISSUE MG/KG	07/27/84-08/24/84	0	5	
APIS0065	No	39515	PCBS (MG/KG) FISH TISSUE MG/KG	04/24/91-04/24/91	0	5	
APIS0094	No	39515	PCBS (MG/KG) FISH TISSUE MG/KG	08/11/76-11/08/76	0	3	
APIS0134	No	39515	PCBS (MG/KG) FISH TISSUE MG/KG	08/16/74-09/17/74	0	10	
APIS0140	No	39515	PCBS (MG/KG) FISH TISSUE MG/KG	10/26/82-08/18/88	5	5	
APIS0142	No	39515	PCBS (MG/KG) FISH TISSUE MG/KG	07/29/85-05/02/89	3	3	
APIS0143	No	39515	PCBS (MG/KG) FISH TISSUE MG/KG	07/20/88-07/27/88	0	5	
APIS0163	No	39515	PCBS (MG/KG) FISH TISSUE MG/KG	08/22/78-09/12/88	10	29	T,S
APIS0174	No	39515	PCBS (MG/KG) FISH TISSUE MG/KG	08/01/74-08/08/74	0	24	
APIS0194	No	39515	PCBS (MG/KG) FISH TISSUE MG/KG	07/23/76-07/23/76	0	1	
APIS0207	No	39515	PCBS (MG/KG) FISH TISSUE MG/KG	07/28/76-07/28/76	0	1	
APIS0210	No	39515	PCBS (MG/KG) FISH TISSUE MG/KG	07/23/76-07/23/76	0	8	
APIS0211	No	39515	PCBS (MG/KG) FISH TISSUE MG/KG	07/23/85-03/31/87	1	10	
APIS0004	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	05/17/87-05/17/87	0	1	
APIS0088	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	3	
APIS0097	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	05/17/87-05/17/87	0	1	
APIS0118	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	3	
APIS0145	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	0	6	
APIS0188	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	07/22/81-07/22/81	0	3	
APIS0088	No	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/21/81-07/21/81	0	1	
APIS0118	No	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/21/81-07/21/81	0	1	
APIS0145	No	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/21/81-07/21/81	0	2	
APIS0175	No	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0187	No	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0188	No	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/22/81-07/22/81	0	1	
APIS0190	No	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0213	No	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0004	No	39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	05/17/87-05/17/87	0	1	
APIS0097	No	39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	05/17/87-05/17/87	0	1	
APIS0012	No	39703	HEXACHLOROBENZENE IN FISH OR ANIMALS WET WGT UG/K	06/06/84-10/13/85	1	4	
APIS0063	No	39703	HEXACHLOROBENZENE IN FISH OR ANIMALS WET WGT UG/K	07/27/84-08/24/84	0	5	
APIS0163	No	39703	HEXACHLOROBENZENE IN FISH OR ANIMALS WET WGT UG/K	08/22/78-08/21/84	5	17	
APIS0088	No	39755	MIREX, TOTAL (UG/L)	07/21/81-07/21/81	0	3	
APIS0118	No	39755	MIREX, TOTAL (UG/L)	07/21/81-07/21/81	0	3	
APIS0145	No	39755	MIREX, TOTAL (UG/L)	07/21/81-07/21/81	0	6	
APIS0188	No	39755	MIREX, TOTAL (UG/L)	07/22/81-07/22/81	0	3	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0088	No	39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	07/21/81-07/21/81	0	1	
APIS0118	No	39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	07/21/81-07/21/81	0	1	
APIS0145	No	39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	07/21/81-07/21/81	0	2	
APIS0175	No	39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0187	No	39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0188	No	39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	07/22/81-07/22/81	0	1	
APIS0190	No	39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0213	No	39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	08/22/89-08/22/89	0	1	
APIS0176	No	39781	LINDANE AQUATIC ORGANISMS WT WGT BASIS(UG/G)	10/01/86-10/01/86	0	3	
APIS0004	No	39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	05/17/87-05/17/87	0	1	
APIS0097	No	39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	05/17/87-05/17/87	0	1	
APIS0099	No	39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	05/22/73-11/27/73	0	10	
APIS0134	No	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	08/16/74-08/16/74	0	6	
APIS0174	No	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	08/08/74-08/08/74	0	12	
APIS0176	No	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	10/01/77-10/01/84	7	11	
APIS0016	Yes	46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/11/96-08/20/96	0	18	
APIS0025	No	46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/10/96-08/20/96	0	35	
APIS0027	Yes	46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/11/96-08/20/96	0	20	
APIS0039	Yes	46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/10/96-08/20/96	0	30	
APIS0054	No	46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/11/96-08/21/96	0	43	
APIS0087	No	46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/12/96-08/21/96	0	50	
APIS0162	No	46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/11/96-08/21/96	0	20	
APIS0203	No	46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/12/96-08/21/96	0	43	
APIS0220	No	49701	TRANSPARENCY, SECCHI DISK, WATER FT	08/03/91-08/15/96	5	25	
APIS0164	No	61509	ZINC SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/27/90-06/27/90	0	1	
APIS0167	No	61509	ZINC SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/27/90-06/27/90	0	1	
APIS0169	No	61509	ZINC SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/27/90-05/14/91	0	2	
APIS0181	No	61509	ZINC SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/26/90-06/26/90	0	1	
APIS0182	No	61509	ZINC SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/26/90-06/26/90	0	1	
APIS0164	No	61515	NICKEL SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/27/90-06/27/90	0	1	
APIS0167	No	61515	NICKEL SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/27/90-06/27/90	0	1	
APIS0169	No	61515	NICKEL SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/27/90-05/14/91	0	2	
APIS0181	No	61515	NICKEL SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/26/90-06/26/90	0	1	
APIS0182	No	61515	NICKEL SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/26/90-06/26/90	0	1	
APIS0164	No	61521	ARSENIC SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/27/90-06/27/90	0	1	
APIS0167	No	61521	ARSENIC SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/27/90-06/27/90	0	1	
APIS0169	No	61521	ARSENIC SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/27/90-06/27/90	0	1	
APIS0181	No	61521	ARSENIC SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/26/90-06/26/90	0	1	
APIS0182	No	61521	ARSENIC SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/26/90-06/26/90	0	1	
APIS0164	No	61527	CADMIUM SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/27/90-06/27/90	0	1	
APIS0167	No	61527	CADMIUM SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/27/90-06/27/90	0	1	
APIS0169	No	61527	CADMIUM SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/27/90-06/27/90	0	1	
APIS0181	No	61527	CADMIUM SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/26/90-06/26/90	0	1	
APIS0182	No	61527	CADMIUM SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/26/90-06/26/90	0	1	
APIS0035	No	61536	NITROGEN, AMMONIUM,SLUDGE,SOLID,DRY WT, AS N,MG/KG	07/31/86-07/30/87	0	2	
APIS0212	No	70151	SURFACE AREA OF LAKE OR RESERVOIR SQ KM	11/01/84-11/01/84	0	1	
APIS0014	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/28/83-07/28/83	0	1	
APIS0018	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/28/83-07/28/83	0	1	
APIS0026	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/24/84-08/24/84	0	1	
APIS0029	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/24/84-08/24/84	0	1	
APIS0104	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/23/83-06/23/83	0	1	
APIS0120	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/23/83-06/23/83	0	1	
APIS0125	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/23/83-06/23/83	0	1	
APIS0131	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/23/83-06/23/83	0	1	
APIS0153	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/08/84-07/16/84	0	2	
APIS0159	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/78-09/28/78	0	1	
APIS0177	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/08/84-07/16/84	0	2	
APIS0191	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/14/82-07/16/84	2	6	
APIS0159	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/28/78-09/28/78	0	1	
APIS0191	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/14/82-09/15/82	0	3	
APIS0191	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	04/14/82-09/15/82	0	3	
APIS0159	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/28/78-09/28/78	0	1	
APIS0191	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	04/14/82-09/15/82	0	3	
APIS0016	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/11/96-08/20/96	0	18	
APIS0025	No	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/10/96-08/20/96	0	35	
APIS0027	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/11/96-08/20/96	0	20	
APIS0039	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/10/96-08/20/96	0	30	
APIS0054	No	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/11/96-08/21/96	0	43	
APIS0087	No	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/12/96-08/21/96	0	50	
APIS0162	No	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/11/96-08/21/96	0	20	
APIS0203	No	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/12/96-08/21/96	0	43	
APIS0164	No	70320	MOISTURE CONTENT (PERCENT OF TOTAL WET WEIGHT)	06/27/90-06/27/90	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0167	No	70320	MOISTURE CONTENT (PERCENT OF TOTAL WET WEIGHT)	06/27/90-06/27/90	0	1	
APIS0169	No	70320	MOISTURE CONTENT (PERCENT OF TOTAL WET WEIGHT)	06/27/90-05/14/91	0	2	
APIS0176	No	70320	MOISTURE CONTENT (PERCENT OF TOTAL WET WEIGHT)	10/01/77-10/01/86	9	14	S
APIS0181	No	70320	MOISTURE CONTENT (PERCENT OF TOTAL WET WEIGHT)	06/26/90-06/26/90	0	1	
APIS0182	No	70320	MOISTURE CONTENT (PERCENT OF TOTAL WET WEIGHT)	06/26/90-06/26/90	0	1	
APIS0164	No	70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	06/27/90-06/27/90	0	1	
APIS0167	No	70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	06/27/90-06/27/90	0	1	
APIS0169	No	70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	06/27/90-05/14/91	0	2	
APIS0181	No	70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	06/26/90-06/26/90	0	1	
APIS0182	No	70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	06/26/90-06/26/90	0	1	
APIS0088	No	70330	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .031MM	07/26/82-07/26/82	0	1	
APIS0118	No	70330	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .031MM	07/27/82-07/27/82	0	1	
APIS0145	No	70330	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .031MM	07/26/82-07/26/82	0	1	
APIS0188	No	70330	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .031MM	07/26/82-07/26/82	0	1	
APIS0153	No	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	06/08/84-07/16/84	0	2	
APIS0177	No	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	06/08/84-07/16/84	0	2	
APIS0191	No	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	09/11/80-07/16/84	3	13	
APIS0191	No	70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	04/01/81-04/15/82	1	5	
APIS0191	No	70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	04/01/81-04/15/82	1	5	
APIS0191	No	70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	04/01/81-04/15/82	1	5	
APIS0191	No	70335	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM	04/01/81-04/15/82	1	5	
APIS0191	No	70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	04/14/82-04/15/82	0	4	
APIS0191	No	70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	04/14/82-04/15/82	0	4	
APIS0191	No	70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	04/14/82-04/15/82	0	4	
APIS0191	No	70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	04/14/82-04/15/82	0	4	
APIS0191	No	70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	04/14/82-04/15/82	0	4	
APIS0016	Yes	70971	LIGHT, ATTENUATION COEFFICIENT (ALPHA/M)	06/11/96-08/20/96	0	2	
APIS0025	No	70971	LIGHT, ATTENUATION COEFFICIENT (ALPHA/M)	06/10/96-08/20/96	0	2	
APIS0027	Yes	70971	LIGHT, ATTENUATION COEFFICIENT (ALPHA/M)	06/11/96-08/20/96	0	2	
APIS0039	Yes	70971	LIGHT, ATTENUATION COEFFICIENT (ALPHA/M)	06/10/96-08/20/96	0	2	
APIS0054	No	70971	LIGHT, ATTENUATION COEFFICIENT (ALPHA/M)	06/11/96-08/21/96	0	2	
APIS0087	No	70971	LIGHT, ATTENUATION COEFFICIENT (ALPHA/M)	06/12/96-08/21/96	0	2	
APIS0162	No	70971	LIGHT, ATTENUATION COEFFICIENT (ALPHA/M)	06/11/96-08/21/96	0	2	
APIS0203	No	70971	LIGHT, ATTENUATION COEFFICIENT (ALPHA/M)	06/12/96-08/21/96	0	2	
APIS0016	Yes	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	06/11/96-08/20/96	0	9	
APIS0025	No	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	06/10/96-08/20/96	0	9	
APIS0027	Yes	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	06/11/96-08/20/96	0	9	
APIS0039	Yes	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	06/10/96-08/20/96	0	9	
APIS0054	No	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	06/11/96-08/21/96	0	9	
APIS0087	No	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	06/12/96-08/21/96	0	9	
APIS0162	No	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	06/11/96-08/21/96	0	9	
APIS0191	No	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	04/14/82-09/15/82	0	3	
APIS0203	No	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	06/12/96-08/21/96	0	9	
APIS0191	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	04/14/82-04/15/82	0	2	
APIS0212	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/01/84-11/01/84	0	1	
APIS0191	No	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	04/14/82-04/15/82	0	2	
APIS0212	No	71885	IRON (UG/L AS FE)	11/01/84-11/01/84	0	1	
APIS0038	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/23/81-07/23/81	0	1	
APIS0044	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/27/82-07/27/82	0	1	
APIS0045	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/27/82-07/27/82	0	1	
APIS0051	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/27/82-07/27/82	0	1	
APIS0057	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/27/82-07/27/82	0	1	
APIS0059	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/27/82-07/27/82	0	1	
APIS0067	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/23/81-07/23/81	0	1	
APIS0069	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/23/81-07/23/81	0	1	
APIS0071	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/23/81-07/23/81	0	1	
APIS0077	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/25/83-07/25/83	0	1	
APIS0080	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/25/83-07/25/83	0	1	
APIS0082	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/25/83-07/25/83	0	1	
APIS0088	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/21/81-07/21/81	0	3	
APIS0091	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/23/81-07/23/81	0	1	
APIS0118	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/21/81-07/21/81	0	3	
APIS0144	Yes	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/23/81-07/23/81	0	1	
APIS0145	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/21/81-07/26/82	1	7	
APIS0148	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/23/81-07/23/81	0	1	
APIS0151	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/23/81-07/23/81	0	1	
APIS0155	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/23/81-07/23/81	0	1	
APIS0188	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/22/81-07/22/81	0	2	
APIS0191	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/11/80-06/22/83	2	46	
APIS0159	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	09/28/78-09/28/78	0	1	
APIS0061	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	06/01/71-10/12/71	0	5	
APIS0095	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	05/16/85-05/16/85	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0159	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	09/28/78-09/28/78	0	1	
APIS0193	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	07/07/92-04/28/93	0	3	
APIS0208	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	06/01/71-10/13/71	0	6	
APIS0159	No	71895	MERCURY, SUSPENDED (UG/L AS HG)	09/28/78-09/28/78	0	1	
APIS0047	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/12/86-09/14/87	1	8	
APIS0058	No	71900	MERCURY, TOTAL (UG/L AS HG)	07/27/82-07/27/82	0	1	
APIS0082	No	71900	MERCURY, TOTAL (UG/L AS HG)	07/25/83-07/25/83	0	1	
APIS0088	No	71900	MERCURY, TOTAL (UG/L AS HG)	07/21/81-07/26/82	1	6	
APIS0095	No	71900	MERCURY, TOTAL (UG/L AS HG)	05/16/85-05/16/85	0	1	
APIS0118	No	71900	MERCURY, TOTAL (UG/L AS HG)	07/21/81-07/27/82	1	5	
APIS0145	No	71900	MERCURY, TOTAL (UG/L AS HG)	07/21/81-07/26/82	1	9	
APIS0159	No	71900	MERCURY, TOTAL (UG/L AS HG)	09/28/78-09/28/78	0	1	
APIS0188	No	71900	MERCURY, TOTAL (UG/L AS HG)	07/22/81-07/26/82	1	6	
APIS0193	No	71900	MERCURY, TOTAL (UG/L AS HG)	07/07/92-04/28/93	0	3	
APIS0043	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/22/86-08/14/87	1	2	
APIS0045	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/27/82-07/27/82	0	1	
APIS0052	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/27/82-07/27/82	0	1	
APIS0058	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/27/82-07/27/82	0	1	
APIS0081	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/25/83-07/25/83	0	1	
APIS0088	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/21/81-07/26/82	1	2	
APIS0118	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/21/81-07/27/82	1	2	
APIS0139	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/22/86-08/14/87	1	2	
APIS0145	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/21/81-07/26/82	1	3	
APIS0154	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	12/11/75-12/11/75	0	1	
APIS0156	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	12/11/75-12/11/75	0	1	
APIS0157	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	12/11/75-12/11/75	0	2	
APIS0158	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	12/11/75-12/11/75	0	1	
APIS0164	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/27/90-06/27/90	0	1	
APIS0166	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/14/72-09/14/72	0	1	
APIS0167	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/27/90-06/27/90	0	1	
APIS0169	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/27/90-05/14/91	0	2	
APIS0170	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/14/72-09/14/72	0	1	
APIS0171	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/14/72-09/14/72	0	1	
APIS0172	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/14/72-09/14/72	0	1	
APIS0173	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/14/72-09/14/72	0	1	
APIS0181	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/26/90-06/26/90	0	1	
APIS0182	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/26/90-06/26/90	0	1	
APIS0188	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/22/81-07/26/82	1	2	
APIS0214	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/14/72-09/14/72	0	1	
APIS0215	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/14/72-09/14/72	0	1	
APIS0216	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/14/72-09/14/72	0	1	
APIS0217	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/14/72-09/14/72	0	1	
APIS0218	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/14/72-09/14/72	0	1	
APIS0012	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	06/06/84-10/13/85	1	7	
APIS0063	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/27/84-08/24/84	0	5	
APIS0065	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/20/83-10/20/83	0	3	
APIS0094	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	08/12/76-11/09/76	0	2	
APIS0134	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	08/12/70-08/16/74	4	12	
APIS0142	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/29/85-07/29/85	0	1	
APIS0147	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	06/22/70-06/22/70	0	9	
APIS0163	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	08/22/78-08/18/86	7	22	T
APIS0174	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	06/10/70-08/08/74	4	20	
APIS0178	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	08/12/70-08/12/70	0	9	
APIS0204	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/24/76-07/24/76	0	1	
APIS0207	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/29/76-07/29/76	0	1	
APIS0210	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/24/76-07/24/76	0	5	
APIS0211	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/23/85-09/10/85	0	14	
APIS0219	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	08/01/85-08/01/85	0	4	
APIS0222	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	06/17/83-05/06/85	1	11	
APIS0011	No	71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	08/09/88-08/04/92	3	4	
APIS0012	No	71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	10/13/88-09/17/93	4	31	
APIS0062	No	71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	06/25/93-06/25/93	0	4	
APIS0063	No	71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	07/23/92-08/05/92	0	2	
APIS0064	No	71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	07/28/92-07/28/92	0	1	
APIS0065	No	71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	04/21/88-04/24/91	3	3	
APIS0140	No	71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	08/05/88-08/11/92	4	4	
APIS0142	No	71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	07/27/88-05/02/89	0	2	
APIS0143	No	71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	07/20/88-08/06/92	4	7	
APIS0163	No	71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	09/10/87-09/14/88	1	10	
APIS0169	No	71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	05/14/91-05/14/91	0	2	
APIS0176	No	71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	10/01/77-10/01/86	9	14	S
APIS0222	No	71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	04/23/87-04/23/87	0	8	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0012	No	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	06/06/84-10/13/85	1	5	
APIS0063	No	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	07/27/84-08/24/84	0	5	
APIS0065	No	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/20/83-10/20/83	0	3	
APIS0134	No	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/16/74-08/16/74	0	6	
APIS0163	No	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/21/79-08/21/84	5	14	
APIS0169	No	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	05/14/91-05/14/91	0	2	
APIS0174	No	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/08/74-08/08/74	0	13	
APIS0176	No	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/01/77-10/01/86	9	14	S
APIS0178	No	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/12/70-08/12/70	0	4	
APIS0012	No	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	06/06/84-10/13/85	1	5	
APIS0063	No	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	07/27/84-08/24/84	0	5	
APIS0065	No	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/20/83-10/20/83	0	3	
APIS0134	No	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/16/74-08/16/74	0	6	
APIS0163	No	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/21/79-08/21/84	5	14	
APIS0174	No	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/08/74-08/08/74	0	13	
APIS0176	No	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/01/79-10/01/86	7	12	
APIS0134	No	71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/16/74-08/16/74	0	6	
APIS0174	No	71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/08/74-08/08/74	0	13	
APIS0176	No	71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/01/79-10/01/86	7	12	
APIS0178	No	71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/12/70-08/12/70	0	3	
APIS0012	No	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	06/06/84-10/13/85	1	5	
APIS0063	No	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	07/27/84-08/24/84	0	5	
APIS0065	No	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	10/20/83-10/20/83	0	3	
APIS0134	No	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	08/16/74-08/16/74	0	6	
APIS0163	No	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	08/21/79-08/21/84	5	14	
APIS0174	No	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	08/08/74-08/08/74	0	13	
APIS0178	No	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	08/12/70-08/12/70	0	3	
APIS0012	No	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	06/06/84-10/13/85	1	5	
APIS0063	No	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/27/84-08/24/84	0	5	
APIS0065	No	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/20/83-10/20/83	0	3	
APIS0134	No	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	08/16/74-08/16/74	0	6	
APIS0163	No	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	08/21/79-08/21/84	5	14	
APIS0169	No	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	05/14/91-05/14/91	0	2	
APIS0174	No	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	08/08/74-08/08/74	0	13	
APIS0176	No	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/01/77-10/01/86	9	14	S
APIS0178	No	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	08/12/70-08/12/70	0	4	
APIS0212	No	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	11/01/84-11/01/84	0	1	
APIS0127	No	74010	IRON, TOTAL (MG/L AS FE)	07/18/79-07/18/79	0	1	
APIS0004	No	77613	1,2,3-TRICHLOROBENZENE WHOLE WATER,UG/L	05/17/87-05/17/87	0	1	
APIS0097	No	77613	1,2,3-TRICHLOROBENZENE WHOLE WATER,UG/L	05/17/87-05/17/87	0	1	
APIS0004	No	77736	1,2,3,4-TETRACHLOROBENZENE WHOLE WATER,UG/L	05/17/87-05/17/87	0	1	
APIS0097	No	77736	1,2,3,4-TETRACHLOROBENZENE WHOLE WATER,UG/L	05/17/87-05/17/87	0	1	
APIS0004	No	77793	PENTACHLOROBENZENE WHOLE WATER,UG/L	05/17/87-05/17/87	0	1	
APIS0097	No	77793	PENTACHLOROBENZENE WHOLE WATER,UG/L	05/17/87-05/17/87	0	1	
APIS0169	No	78679	PERYLENE IN SEDIMENT UG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	78828	BENZO(GHI)PERYLENE IN SEDIMENT DRY WEIGHT UG/KG	05/14/91-05/14/91	0	1	
APIS0011	No	78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	08/09/88-08/04/92	3	8	
APIS0012	No	78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	10/13/88-04/30/95	6	50	T
APIS0063	No	78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	07/23/92-08/05/92	0	2	
APIS0064	No	78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	07/28/92-08/29/95	3	4	
APIS0065	No	78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	04/21/88-04/26/95	7	11	
APIS0140	No	78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	10/17/87-08/11/92	4	7	
APIS0142	No	78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	07/27/88-05/02/89	0	2	
APIS0143	No	78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	07/20/88-08/06/92	4	8	
APIS0163	No	78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	08/05/88-09/14/88	0	7	
APIS0211	No	78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	03/31/87-03/31/87	0	4	
APIS0011	No	78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	08/09/88-08/04/92	3	8	
APIS0012	No	78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	10/13/88-04/30/95	6	50	T
APIS0063	No	78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	07/23/92-08/05/92	0	2	
APIS0064	No	78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	07/28/92-08/29/95	3	4	
APIS0065	No	78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	04/21/88-04/26/95	7	11	
APIS0140	No	78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	10/17/87-08/11/92	4	7	
APIS0142	No	78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	07/27/88-05/02/89	0	2	
APIS0143	No	78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	07/20/88-08/06/92	4	8	
APIS0163	No	78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	08/05/88-09/14/88	0	7	
APIS0211	No	78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	03/31/87-03/31/87	0	4	
APIS0011	No	78926	FAT, PERCENT, IN TISSUE, WET WEIGHT %	08/09/88-08/04/92	3	8	
APIS0012	No	78926	FAT, PERCENT, IN TISSUE, WET WEIGHT %	10/23/82-04/30/95	12	79	T,A,S
APIS0063	No	78926	FAT, PERCENT, IN TISSUE, WET WEIGHT %	07/27/84-08/05/92	8	7	
APIS0064	No	78926	FAT, PERCENT, IN TISSUE, WET WEIGHT %	07/28/92-08/29/95	3	4	
APIS0065	No	78926	FAT, PERCENT, IN TISSUE, WET WEIGHT %	04/21/88-04/26/95	7	11	
APIS0140	No	78926	FAT, PERCENT, IN TISSUE, WET WEIGHT %	10/26/82-08/11/92	9	9	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0142	No	78926	FAT, PERCENT, IN TISSUE, WET WEIGHT %	07/29/85-05/02/89	3	3	
APIS0143	No	78926	FAT, PERCENT, IN TISSUE, WET WEIGHT %	07/20/88-08/06/92	4	8	
APIS0163	No	78926	FAT, PERCENT, IN TISSUE, WET WEIGHT %	08/22/78-09/14/88	10	30	T,S
APIS0169	No	78926	FAT, PERCENT, IN TISSUE, WET WEIGHT %	05/14/91-05/14/91	0	2	
APIS0211	No	78926	FAT, PERCENT, IN TISSUE, WET WEIGHT %	07/23/85-03/31/87	1	14	
APIS0140	No	78929	PCB 1254/1260, TISSUE, WET WEIGHT MG/KG	10/17/87-10/17/87	0	2	
APIS0211	No	78929	PCB 1254/1260, TISSUE, WET WEIGHT MG/KG	03/31/87-03/31/87	0	3	
APIS0176	No	79178	PCB-1242 TISDRYWTMG/KG	10/01/73-10/01/77	4	11	
APIS0176	No	79179	PCB-1254 TISDRYWTMG/KG	10/01/69-10/01/86	17	41	T,S
APIS0176	No	79182	PCB-1248 TISDRYWTMG/KG	10/01/77-10/01/86	9	14	S
APIS0176	No	79183	PCB-1260 TISDRYWTMG/KG	10/01/73-10/01/86	13	23	T,S
APIS0153	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/08/84-07/16/84	0	2	
APIS0177	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/08/84-07/16/84	0	2	
APIS0191	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	09/11/80-07/16/84	3	61	
APIS0191	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	09/11/80-08/28/82	1	56	
APIS0044	No	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/27/82-07/27/82	0	1	
APIS0045	No	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/27/82-07/27/82	0	1	
APIS0051	No	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/27/82-07/27/82	0	1	
APIS0052	No	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/27/82-07/27/82	0	1	
APIS0053	No	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/27/82-07/27/82	0	1	
APIS0055	No	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/27/82-07/27/82	0	1	
APIS0057	No	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/27/82-07/27/82	0	1	
APIS0058	No	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/27/82-07/27/82	0	1	
APIS0059	No	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/27/82-07/27/82	0	1	
APIS0073	No	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/25/83-07/25/83	0	1	
APIS0074	No	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/25/83-07/25/83	0	1	
APIS0078	No	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/25/83-07/25/83	0	1	
APIS0079	No	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/25/83-07/25/83	0	1	
APIS0081	No	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/25/83-07/25/83	0	1	
APIS0083	No	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/25/83-07/25/83	0	1	
APIS0085	No	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/25/83-07/25/83	0	1	
APIS0088	No	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/26/82-07/26/82	0	1	
APIS0089	No	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/25/83-07/25/83	0	1	
APIS0092	No	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/25/83-07/25/83	0	1	
APIS0118	No	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/27/82-07/27/82	0	1	
APIS0145	No	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/26/82-07/26/82	0	1	
APIS0188	No	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/26/82-07/26/82	0	1	
APIS0044	No	80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/27/82-07/27/82	0	1	
APIS0045	No	80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/27/82-07/27/82	0	1	
APIS0051	No	80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/27/82-07/27/82	0	1	
APIS0052	No	80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/27/82-07/27/82	0	1	
APIS0053	No	80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/27/82-07/27/82	0	1	
APIS0055	No	80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/27/82-07/27/82	0	1	
APIS0057	No	80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/27/82-07/27/82	0	1	
APIS0058	No	80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/27/82-07/27/82	0	1	
APIS0059	No	80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/27/82-07/27/82	0	1	
APIS0083	No	80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/25/83-07/25/83	0	1	
APIS0088	No	80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/26/82-07/26/82	0	1	
APIS0092	No	80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/25/83-07/25/83	0	1	
APIS0118	No	80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/27/82-07/27/82	0	1	
APIS0145	No	80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/26/82-07/26/82	0	1	
APIS0188	No	80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/26/82-07/26/82	0	1	
APIS0191	No	80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	04/14/82-04/15/82	0	4	
APIS0044	No	80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/27/82-07/27/82	0	1	
APIS0045	No	80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/27/82-07/27/82	0	1	
APIS0051	No	80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/27/82-07/27/82	0	1	
APIS0052	No	80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/27/82-07/27/82	0	1	
APIS0053	No	80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/27/82-07/27/82	0	1	
APIS0055	No	80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/27/82-07/27/82	0	1	
APIS0057	No	80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/27/82-07/27/82	0	1	
APIS0058	No	80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/27/82-07/27/82	0	1	
APIS0059	No	80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/27/82-07/27/82	0	1	
APIS0083	No	80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/25/83-07/25/83	0	1	
APIS0088	No	80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/26/82-07/26/82	0	1	
APIS0092	No	80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/25/83-07/25/83	0	1	
APIS0118	No	80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/27/82-07/27/82	0	1	
APIS0145	No	80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/26/82-07/26/82	0	1	
APIS0188	No	80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/26/82-07/26/82	0	1	
APIS0191	No	80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	04/14/82-04/15/82	0	4	
APIS0044	No	80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/27/82-07/27/82	0	1	
APIS0045	No	80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/27/82-07/27/82	0	1	
APIS0051	No	80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/27/82-07/27/82	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0052	No	80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/27/82-07/27/82	0	1	
APIS0053	No	80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/27/82-07/27/82	0	1	
APIS0055	No	80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/27/82-07/27/82	0	1	
APIS0057	No	80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/27/82-07/27/82	0	1	
APIS0058	No	80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/27/82-07/27/82	0	1	
APIS0059	No	80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/27/82-07/27/82	0	1	
APIS0083	No	80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/25/83-07/25/83	0	1	
APIS0088	No	80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/26/82-07/26/82	0	1	
APIS0092	No	80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/25/83-07/25/83	0	1	
APIS0118	No	80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/27/82-07/27/82	0	1	
APIS0145	No	80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/26/82-07/26/82	0	1	
APIS0188	No	80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/26/82-07/26/82	0	1	
APIS0191	No	80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	04/14/82-04/15/82	0	4	
APIS0044	No	80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	07/27/82-07/27/82	0	1	
APIS0051	No	80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	07/27/82-07/27/82	0	1	
APIS0052	No	80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	07/27/82-07/27/82	0	1	
APIS0053	No	80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	07/27/82-07/27/82	0	1	
APIS0055	No	80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	07/27/82-07/27/82	0	1	
APIS0057	No	80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	07/27/82-07/27/82	0	1	
APIS0058	No	80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	07/27/82-07/27/82	0	1	
APIS0059	No	80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	07/27/82-07/27/82	0	1	
APIS0083	No	80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	07/25/83-07/25/83	0	1	
APIS0088	No	80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	07/26/82-07/26/82	0	1	
APIS0092	No	80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	07/25/83-07/25/83	0	1	
APIS0145	No	80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	07/26/82-07/26/82	0	1	
APIS0188	No	80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	07/26/82-07/26/82	0	1	
APIS0191	No	80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	04/14/82-04/15/82	0	4	
APIS0044	No	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	07/27/82-07/27/82	0	1	
APIS0052	No	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	07/27/82-07/27/82	0	1	
APIS0055	No	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	07/27/82-07/27/82	0	1	
APIS0058	No	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	07/27/82-07/27/82	0	1	
APIS0059	No	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	07/27/82-07/27/82	0	1	
APIS0083	No	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	07/25/83-07/25/83	0	1	
APIS0088	No	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	07/26/82-07/26/82	0	1	
APIS0092	No	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	07/25/83-07/25/83	0	1	
APIS0145	No	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	07/26/82-07/26/82	0	1	
APIS0191	No	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	04/14/82-04/15/82	0	4	
APIS0052	No	80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	07/27/82-07/27/82	0	1	
APIS0083	No	80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	07/25/83-07/25/83	0	1	
APIS0088	No	80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	07/26/82-07/26/82	0	1	
APIS0092	No	80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	07/25/83-07/25/83	0	1	
APIS0191	No	80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	04/14/82-04/15/82	0	4	
APIS0083	No	80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	07/25/83-07/25/83	0	1	
APIS0191	No	80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	04/14/82-04/15/82	0	4	
APIS0083	No	80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	07/25/83-07/25/83	0	1	
APIS0191	No	80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	04/14/82-04/15/82	0	4	
APIS0083	No	80173	BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM	07/25/83-07/25/83	0	1	
APIS0191	No	80173	BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM	04/14/82-04/15/82	0	3	
APIS0191	No	80174	BED MATERIAL SIEVE DIAMETER,% FINER THAN 64.0MM	04/15/82-04/15/82	0	1	
APIS0191	No	80203	TOTAL SEDIMENT SIEVE DIAMETER,% FINER THAN .062MM	03/16/83-04/19/83	0	2	
APIS0212	No	81024	DRAINAGE AREA IN SQUARE MILES (SQ. MI.)	11/01/84-11/01/84	0	1	
APIS0176	No	81312	POLYCHLORINATEDBIPHENYLS FISH TISSUE WET WGT MG/KG	10/01/86-10/01/86	0	3	
APIS0035	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	07/31/86-07/30/87	0	2	
APIS0043	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	07/22/86-08/14/87	1	2	
APIS0139	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	07/22/86-08/14/87	1	2	
APIS0154	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	12/11/75-12/11/75	0	1	
APIS0156	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	12/11/75-12/11/75	0	1	
APIS0157	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	12/11/75-12/11/75	0	2	
APIS0158	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	12/11/75-12/11/75	0	1	
APIS0010	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	11/01/77-11/01/79	2	32	
APIS0011	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	08/09/88-08/04/92	3	9	
APIS0012	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	10/13/88-04/30/95	6	72	T
APIS0062	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	06/25/93-06/25/93	0	4	
APIS0063	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	07/23/92-08/05/92	0	4	
APIS0064	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	07/28/92-08/29/95	3	5	
APIS0065	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	04/21/88-04/26/95	7	12	
APIS0094	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	08/11/76-11/09/76	0	5	
APIS0134	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	06/30/70-09/17/74	4	16	
APIS0140	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	10/17/87-08/11/92	4	9	
APIS0142	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	07/27/88-05/02/89	0	2	
APIS0143	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	07/20/88-08/06/92	4	10	
APIS0147	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	06/22/70-06/22/70	0	9	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0163	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	09/10/87-09/14/88	1	10	
APIS0174	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	06/10/70-08/08/74	4	31	
APIS0178	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	08/12/70-08/12/70	0	14	
APIS0194	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	07/23/76-07/23/76	0	1	
APIS0204	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	07/24/76-07/24/76	0	1	
APIS0207	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	07/28/76-07/29/76	0	2	
APIS0210	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	07/23/76-07/24/76	0	13	
APIS0211	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	03/31/87-03/31/87	0	7	
APIS0222	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	04/23/87-04/23/87	0	8	
APIS0012	No	81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	10/23/82-10/13/85	2	24	
APIS0063	No	81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	07/27/84-08/24/84	0	5	
APIS0134	No	81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	08/16/74-08/16/74	0	6	
APIS0163	No	81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	08/22/78-08/21/84	5	17	
APIS0174	No	81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	08/08/74-08/08/74	0	12	
APIS0176	No	81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	10/01/81-10/01/86	5	9	
APIS0010	No	81760	O,P'-DDE IN FISH TISSUE WET WEIGHT MG/KG	11/01/77-11/01/79	2	32	
APIS0176	No	81823	PENTACHLOROANISOLE(PCA)INFISH TISSUE WET WGT MG/KG	10/01/81-10/01/86	5	9	
APIS0088	No	81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	07/21/81-07/21/81	0	1	
APIS0118	No	81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	07/21/81-07/21/81	0	1	
APIS0145	No	81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	07/21/81-07/21/81	0	2	
APIS0175	No	81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	08/22/89-08/22/89	0	1	
APIS0187	No	81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	08/22/89-08/22/89	0	1	
APIS0188	No	81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	07/22/81-07/22/81	0	1	
APIS0190	No	81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	08/22/89-08/22/89	0	1	
APIS0213	No	81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	08/22/89-08/22/89	0	1	
APIS0176	No	81896	DDE TOTAL IN TISSUE WET WEIGHT MG/KG	10/01/69-10/01/86	17	41	T,S
APIS0176	No	81944	DDT(INCLUDES DDE & DDD) IN TISSUE WET WEIGHT MG/KG	10/01/86-10/01/86	0	3	
APIS0043	No	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	07/22/86-08/14/87	1	2	
APIS0139	No	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	07/22/86-08/14/87	1	2	
APIS0164	No	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	06/27/90-06/27/90	0	1	
APIS0167	No	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	06/27/90-06/27/90	0	1	
APIS0169	No	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	06/27/90-05/14/91	0	2	
APIS0181	No	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	06/26/90-06/26/90	0	1	
APIS0182	No	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	06/26/90-06/26/90	0	1	
APIS0176	No	81987	TOTAL SEDIMENT PARTICLE SIZE %COARSER THAN 9.00PHI	10/01/69-10/01/86	17	41	S
APIS0176	No	82004	DACTHAL IN TISSUE SAMPLE WET WEIGHT MG/KG	10/01/79-10/01/86	7	12	
APIS0010	No	82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	11/01/77-11/01/79	2	32	
APIS0176	No	82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	10/01/79-10/01/86	7	12	
APIS0212	No	82047	DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	11/01/84-11/01/84	0	1	
APIS0016	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/11/96-08/20/96	0	18	
APIS0025	No	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/10/96-08/20/96	0	35	
APIS0027	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/11/96-08/20/96	0	20	
APIS0039	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/10/96-08/20/96	0	30	
APIS0054	No	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/11/96-08/21/96	0	43	
APIS0087	No	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/12/96-08/21/96	0	50	
APIS0162	No	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/11/96-08/21/96	0	20	
APIS0203	No	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/12/96-08/21/96	0	43	
APIS0212	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/01/84-11/01/84	0	1	
APIS0016	Yes	82127	WIND SPEED KNOTS	06/11/96-08/20/96	0	18	
APIS0025	No	82127	WIND SPEED KNOTS	06/10/96-08/20/96	0	35	
APIS0027	Yes	82127	WIND SPEED KNOTS	06/11/96-08/20/96	0	20	
APIS0039	Yes	82127	WIND SPEED KNOTS	06/10/96-08/20/96	0	30	
APIS0054	No	82127	WIND SPEED KNOTS	06/11/96-08/21/96	0	43	
APIS0087	No	82127	WIND SPEED KNOTS	06/12/96-08/21/96	0	50	
APIS0162	No	82127	WIND SPEED KNOTS	06/11/96-08/21/96	0	20	
APIS0203	No	82127	WIND SPEED KNOTS	06/12/96-08/21/96	0	43	
APIS0001	No	82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	05/24/83-10/22/83	0	15	
APIS0004	No	82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	05/17/87-05/07/89	1	2	
APIS0021	No	82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	05/16/86-05/07/89	2	3	
APIS0022	No	82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	05/24/83-10/22/83	0	14	
APIS0032	No	82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	05/24/83-10/22/83	0	12	
APIS0095	No	82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	05/16/85-05/16/85	0	1	
APIS0097	No	82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	05/16/86-05/07/89	2	3	
APIS0102	No	82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	05/24/83-10/22/83	0	16	
APIS0199	No	82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	05/24/83-10/21/83	0	16	
APIS0201	No	82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	05/16/86-05/06/89	2	3	
APIS0014	Yes	82398	SAMPLING METHOD (CODES)	07/28/83-07/28/83	0	1	
APIS0018	Yes	82398	SAMPLING METHOD (CODES)	07/28/83-07/28/83	0	1	
APIS0026	Yes	82398	SAMPLING METHOD (CODES)	08/24/84-08/24/84	0	1	
APIS0029	Yes	82398	SAMPLING METHOD (CODES)	08/24/84-08/24/84	0	1	
APIS0041	No	82398	SAMPLING METHOD (CODES)	07/29/83-11/02/83	0	3	
APIS0075	No	82398	SAMPLING METHOD (CODES)	07/25/83-07/25/83	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0076	No	82398	SAMPLING METHOD (CODES)	07/25/83-07/25/83	0	1	
APIS0077	No	82398	SAMPLING METHOD (CODES)	07/25/83-07/25/83	0	1	
APIS0080	No	82398	SAMPLING METHOD (CODES)	07/25/83-07/25/83	0	1	
APIS0082	No	82398	SAMPLING METHOD (CODES)	07/25/83-07/25/83	0	1	
APIS0083	No	82398	SAMPLING METHOD (CODES)	07/25/83-07/25/83	0	1	
APIS0086	No	82398	SAMPLING METHOD (CODES)	07/25/83-07/25/83	0	1	
APIS0090	No	82398	SAMPLING METHOD (CODES)	07/25/83-07/25/83	0	1	
APIS0092	No	82398	SAMPLING METHOD (CODES)	07/25/83-07/25/83	0	1	
APIS0104	Yes	82398	SAMPLING METHOD (CODES)	06/23/83-06/23/83	0	1	
APIS0120	Yes	82398	SAMPLING METHOD (CODES)	06/23/83-06/23/83	0	1	
APIS0125	Yes	82398	SAMPLING METHOD (CODES)	06/23/83-06/23/83	0	1	
APIS0131	Yes	82398	SAMPLING METHOD (CODES)	06/23/83-06/23/83	0	1	
APIS0153	No	82398	SAMPLING METHOD (CODES)	06/08/84-07/16/84	0	2	
APIS0177	No	82398	SAMPLING METHOD (CODES)	06/08/84-07/16/84	0	2	
APIS0191	No	82398	SAMPLING METHOD (CODES)	06/22/83-07/16/84	1	3	
APIS0014	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/31/83-08/31/83	0	1	
APIS0041	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	11/02/83-11/02/83	0	1	
APIS0045	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/27/82-07/27/82	0	1	
APIS0053	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/27/82-07/27/82	0	1	
APIS0055	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/27/82-07/27/82	0	1	
APIS0057	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/27/82-07/27/82	0	1	
APIS0059	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/27/82-07/27/82	0	1	
APIS0069	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	09/09/81-09/09/81	0	1	
APIS0076	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/25/83-07/25/83	0	1	
APIS0082	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/25/83-07/25/83	0	1	
APIS0086	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/25/83-07/25/83	0	1	
APIS0090	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/25/83-07/25/83	0	1	
APIS0091	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	09/09/81-09/09/81	0	1	
APIS0092	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/25/83-07/25/83	0	1	
APIS0110	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/22/86-07/22/86	0	1	
APIS0111	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/26/87-08/26/87	0	1	
APIS0118	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/27/82-07/27/82	0	1	
APIS0148	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	09/09/81-09/09/81	0	1	
APIS0155	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	09/09/81-09/09/81	0	1	
APIS0159	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	09/28/78-09/28/78	0	1	
APIS0188	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/26/82-07/26/82	0	1	
APIS0014	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/31/83-08/31/83	0	1	
APIS0041	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	11/02/83-11/02/83	0	1	
APIS0045	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/27/82-07/27/82	0	1	
APIS0053	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/27/82-07/27/82	0	1	
APIS0055	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/27/82-07/27/82	0	1	
APIS0057	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/27/82-07/27/82	0	1	
APIS0059	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/27/82-07/27/82	0	1	
APIS0069	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	09/09/81-09/09/81	0	1	
APIS0076	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/25/83-07/25/83	0	1	
APIS0082	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/25/83-07/25/83	0	1	
APIS0086	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/25/83-07/25/83	0	1	
APIS0090	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/25/83-07/25/83	0	1	
APIS0091	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	09/09/81-09/09/81	0	1	
APIS0092	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/25/83-07/25/83	0	1	
APIS0110	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/22/86-07/22/86	0	1	
APIS0111	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/26/87-08/26/87	0	1	
APIS0118	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/27/82-07/27/82	0	1	
APIS0148	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	09/09/81-09/09/81	0	1	
APIS0155	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	09/09/81-09/09/81	0	1	
APIS0159	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	09/28/78-09/28/78	0	1	
APIS0188	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/26/82-07/26/82	0	1	
APIS0010	No	84007	ANATOMY ALPHA CODE	11/01/77-11/01/79	2	32	
APIS0011	No	84007	ANATOMY ALPHA CODE	08/09/88-08/04/92	3	9	
APIS0012	No	84007	ANATOMY ALPHA CODE	10/13/88-04/30/95	6	72	
APIS0062	No	84007	ANATOMY ALPHA CODE	06/25/93-06/25/93	0	4	
APIS0063	No	84007	ANATOMY ALPHA CODE	07/23/92-08/05/92	0	4	
APIS0064	No	84007	ANATOMY ALPHA CODE	07/28/92-08/29/95	3	5	
APIS0065	No	84007	ANATOMY ALPHA CODE	04/21/88-04/26/95	7	12	
APIS0094	No	84007	ANATOMY ALPHA CODE	08/11/76-11/09/76	0	5	
APIS0134	No	84007	ANATOMY ALPHA CODE	08/12/70-09/17/74	4	16	
APIS0140	No	84007	ANATOMY ALPHA CODE	08/05/88-08/11/92	4	6	
APIS0142	No	84007	ANATOMY ALPHA CODE	07/27/88-05/02/89	0	2	
APIS0143	No	84007	ANATOMY ALPHA CODE	07/20/88-08/06/92	4	10	
APIS0147	No	84007	ANATOMY ALPHA CODE	06/22/70-06/22/70	0	9	
APIS0163	No	84007	ANATOMY ALPHA CODE	08/05/88-09/14/88	0	7	
APIS0174	No	84007	ANATOMY ALPHA CODE	06/10/70-08/08/74	4	32	

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

Station/Parameter Period of Record Tabulation
From 08/26/68 To 08/21/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
APIS0178	No	84007	ANATOMY ALPHA CODE	08/12/70-08/12/70	0	14	
APIS0194	No	84007	ANATOMY ALPHA CODE	07/23/76-07/23/76	0	1	
APIS0204	No	84007	ANATOMY ALPHA CODE	07/24/76-07/24/76	0	1	
APIS0207	No	84007	ANATOMY ALPHA CODE	07/28/76-07/29/76	0	2	
APIS0210	No	84007	ANATOMY ALPHA CODE	07/23/76-07/24/76	0	13	
APIS0094	No	84008	LIFE STYLE/HABITAT OF THEINDIVIDUALS IN THE SAMPLE	08/11/76-11/09/76	0	5	
APIS0134	No	84008	LIFE STYLE/HABITAT OF THEINDIVIDUALS IN THE SAMPLE	08/12/70-09/17/74	4	16	
APIS0147	No	84008	LIFE STYLE/HABITAT OF THEINDIVIDUALS IN THE SAMPLE	06/22/70-06/22/70	0	9	
APIS0174	No	84008	LIFE STYLE/HABITAT OF THEINDIVIDUALS IN THE SAMPLE	06/10/70-08/08/74	4	32	
APIS0178	No	84008	LIFE STYLE/HABITAT OF THEINDIVIDUALS IN THE SAMPLE	08/12/70-08/12/70	0	14	
APIS0194	No	84008	LIFE STYLE/HABITAT OF THEINDIVIDUALS IN THE SAMPLE	07/23/76-07/23/76	0	1	
APIS0204	No	84008	LIFE STYLE/HABITAT OF THEINDIVIDUALS IN THE SAMPLE	07/24/76-07/24/76	0	1	
APIS0207	No	84008	LIFE STYLE/HABITAT OF THEINDIVIDUALS IN THE SAMPLE	07/28/76-07/29/76	0	2	
APIS0210	No	84008	LIFE STYLE/HABITAT OF THEINDIVIDUALS IN THE SAMPLE	07/23/76-07/24/76	0	13	
APIS0011	No	84014	SPECIES SEX CODE	08/09/88-04/27/91	2	7	
APIS0012	No	84014	SPECIES SEX CODE	10/13/88-04/30/95	6	61	
APIS0062	No	84014	SPECIES SEX CODE	06/25/93-06/25/93	0	4	
APIS0065	No	84014	SPECIES SEX CODE	04/21/88-04/26/95	7	12	
APIS0140	No	84014	SPECIES SEX CODE	10/17/87-10/17/87	0	3	
APIS0143	No	84014	SPECIES SEX CODE	07/27/88-05/08/91	2	5	
APIS0163	No	84014	SPECIES SEX CODE	08/05/88-08/05/88	0	1	
APIS0211	No	84014	SPECIES SEX CODE	03/31/87-03/31/87	0	4	
APIS0103	Yes	85000	STREAM MILE, ACTUAL MILES	07/18/84-07/18/84	0	1	
APIS0105	Yes	85000	STREAM MILE, ACTUAL MILES	06/23/83-07/18/84	1	2	
APIS0114	Yes	85000	STREAM MILE, ACTUAL MILES	06/23/83-07/18/84	1	2	
APIS0115	Yes	85000	STREAM MILE, ACTUAL MILES	06/23/83-07/18/84	1	2	
APIS0117	Yes	85000	STREAM MILE, ACTUAL MILES	06/23/84-07/18/84	0	2	
APIS0119	Yes	85000	STREAM MILE, ACTUAL MILES	07/18/84-07/18/84	0	1	
APIS0121	Yes	85000	STREAM MILE, ACTUAL MILES	06/23/83-07/18/84	1	2	
APIS0122	Yes	85000	STREAM MILE, ACTUAL MILES	06/23/83-07/18/84	1	2	
APIS0123	Yes	85000	STREAM MILE, ACTUAL MILES	06/23/83-07/18/84	1	2	
APIS0124	Yes	85000	STREAM MILE, ACTUAL MILES	07/18/84-07/18/84	0	1	
APIS0128	Yes	85000	STREAM MILE, ACTUAL MILES	06/23/83-07/18/84	1	2	
APIS0129	Yes	85000	STREAM MILE, ACTUAL MILES	06/23/83-07/18/84	1	2	
APIS0130	Yes	85000	STREAM MILE, ACTUAL MILES	07/18/84-07/18/84	0	1	
APIS0132	Yes	85000	STREAM MILE, ACTUAL MILES	06/23/83-07/18/84	1	2	
APIS0133	Yes	85000	STREAM MILE, ACTUAL MILES	06/23/83-07/18/84	1	2	
APIS0135	Yes	85000	STREAM MILE, ACTUAL MILES	06/23/83-07/18/84	1	2	
APIS0136	Yes	85000	STREAM MILE, ACTUAL MILES	06/23/83-07/18/84	1	2	
APIS0137	Yes	85000	STREAM MILE, ACTUAL MILES	06/23/83-07/18/84	1	2	
APIS0154	No	85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	12/11/75-12/11/75	0	1	
APIS0156	No	85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	12/11/75-12/11/75	0	1	
APIS0157	No	85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	12/11/75-12/11/75	0	2	
APIS0158	No	85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	12/11/75-12/11/75	0	1	
APIS0166	No	85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	09/14/72-09/14/72	0	1	
APIS0170	No	85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	09/14/72-09/14/72	0	1	
APIS0171	No	85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	09/14/72-09/14/72	0	1	
APIS0172	No	85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	09/14/72-09/14/72	0	1	
APIS0173	No	85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	09/14/72-09/14/72	0	1	
APIS0214	No	85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	09/14/72-09/14/72	0	1	
APIS0215	No	85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	09/14/72-09/14/72	0	1	
APIS0216	No	85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	09/14/72-09/14/72	0	1	
APIS0217	No	85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	09/14/72-09/14/72	0	1	
APIS0218	No	85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	09/14/72-09/14/72	0	1	
APIS0169	No	85754	BENZO-A-PYRENE, SOIL, DRY WT, MG/KG	05/14/91-05/14/91	0	1	
APIS0169	No	85755	BENZO(A)ANTHRACENE, SOIL, DRY WT, MG/KG	05/14/91-05/14/91	0	1	

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

Station-By-Station Results

Station Inventory for Station: APIS0001

NPS Station ID: APIS0001
LAT/LON: 46.983337/ -90.339726
Agency: AIJCCCIW
Date Created: 11/02/85
Location: OPEN LAKE STATION
FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): C83SU187
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 95
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: OPEN LAKE STATION
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/24/83-10/22/83	23	52.	46.783	92.	0.	1408.269	37.527	0.	3.	85.	89.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/24/83-10/22/83	19	7.2	8.605	19.5	4.2	26.223	5.121	4.2	5.5	8.2	19.5
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/24/83-06/28/83	2	12.	12.	13.	11.	2.	1.414	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	05/24/83-06/28/83	2	5.	5.	5.	5.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/24/83-10/22/83	15	105.	104.2	112.	96.	26.6	5.158	97.8	99.	109.	111.4
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/24/83-10/22/83	15	12.8	12.307	13.7	9.5	1.426	1.194	9.68	11.9	12.9	13.4
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/24/83-10/22/83	15	106.	105.667	118.	99.	27.524	5.246	99.6	101.	108.	114.4
00400	PH (STANDARD UNITS)	05/24/83-10/22/83	15	8.	8.009	8.25	7.82	0.016	0.127	7.856	7.91	8.02	8.244
00400	CONVERTED PH (STANDARD UNITS)	05/24/83-10/22/83	15	8.	7.992	8.25	7.82	0.016	0.128	7.856	7.91	8.02	8.244
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/24/83-10/22/83	15	0.01	0.01	0.015	0.006	0.	0.003	0.006	0.01	0.012	0.014
00601	NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	05/24/83-10/22/83	4	0.02	0.02	0.021	0.017	0.	0.002	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/24/83-10/22/83	15 ##	0.001	0.002	0.005	0.001	0.	0.001	0.001	0.001	0.003	0.004
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/24/83-10/22/83	15	0.089	0.093	0.137	0.073	0.	0.017	0.077	0.082	0.101	0.126
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/24/83-10/22/83	15	0.3	0.3	0.3	0.3	0.	0.	0.3	0.3	0.3	0.3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/24/83-10/22/83	15	0.003	0.003	0.005	0.002	0.	0.001	0.002	0.002	0.003	0.004
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/24/83-10/22/83	15	0.002	0.002	0.003	0.001	0.	0.001	0.001	0.001	0.002	0.002
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/24/83-10/22/83	15	0.001	0.	0.001	0.	0.	0.	0.	0.	0.001	0.001
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	05/24/83-10/22/83	15	1.5	1.507	1.8	1.1	0.034	0.183	1.22	1.4	1.6	1.8
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/24/83-10/22/83	4	0.2	0.175	0.2	0.1	0.003	0.05	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/24/83-10/22/83	10	13.2	13.22	13.4	13.	0.013	0.114	13.01	13.175	13.3	13.39
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/24/83-10/22/83	10	2.7	2.74	2.8	2.7	0.003	0.052	2.7	2.7	2.8	2.8
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/24/83-10/22/83	10	1.3	1.28	1.4	1.2	0.004	0.063	1.2	1.2	1.3	1.39
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/24/83-10/22/83	10	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/24/83-10/22/83	15	3.5	3.447	3.6	3.3	0.01	0.099	3.3	3.4	3.5	3.6
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/24/83-10/22/83	15	2.3	2.227	2.3	2.	0.014	0.116	2.	2.1	2.3	2.3
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/24/83-10/22/83	4	1.2	1.175	1.3	1.	0.023	0.15	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/24/83-10/22/83	4	0.95	0.925	1.1	0.7	0.029	0.171	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/24/83-10/22/83	15	41.	41.067	45.	38.	4.638	2.154	38.6	39.	43.	44.4
82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	05/24/83-10/22/83	15	1.3	1.287	1.5	1.1	0.01	0.099	1.16	1.2	1.3	1.44

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

EPA Water Quality Criteria Analysis for Station: APIS0001

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	15	0	0.00	7	0	0.00							8	0	0.00
00400	PH	Fresh Chronic	9.	15	0	0.00	7	0	0.00							8	0	0.00
		Other-Lo Lim.	6.5	15	0	0.00	7	0	0.00							8	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	15	0	0.00	7	0	0.00							8	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	15	0	0.00	7	0	0.00							8	0	0.00
82295	CHLORIDE DISSOLVED AS CL IN WATER	Fresh Acute	860000.	15	0	0.00	7	0	0.00							8	0	0.00
		Drinking Water	250000.	15	0	0.00	7	0	0.00							8	0	0.00

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

Station Inventory for Station: APIS0002

NPS Station ID: APIS0002 LAT/LON: 46.983337/ -90.340005 Agency: AIJCCCIW Date Created: 02/09/78
Location: 11 MI EAST OF STOCKTON I.,WIS. FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): C73SU187
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04020300 Depth of Water: 1115 Aquifer:
Major Basin: GREAT LAKES Elevation: 0 Water Body Id:
Minor Basin: L. SUPERIOR CANADIAN 1973 STATION #187 ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 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. USEPA CONTACTS: NELSON THOMAS OR WILLIAM RICHARDSON, 313-226-7811. DATA FOR THIS STATION IN 1973 WAS COLLECTED IN PART FOR THE IJC INTERNATIONAL SURVEILLANCE PROGRAM FOR THE GREAT LAKES. ADDITIONAL INFORMATION ON GREAT LAKES CANADIAN DATA IS ON DATA SET CN.EPANAT.CNLL.CANADA.NEWS AT THE STORET COMPUTER SITE.

Parameter Inventory for Station: APIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/21/73-11/27/73	32	16.	32.75	101.	0.	1273.871	35.691	0.	3.	78.	90.1
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/21/73-11/27/73	31	6.8	8.194	17.7	3.	20.74	4.554	3.8	4.3	13.7	15.72
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	05/21/73-11/27/73	18	59.	59.889	67.	50.	37.163	6.096	51.8	54.5	66.	67.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/21/73-11/27/73	25	0.4	0.42	0.8	0.2	0.028	0.168	0.2	0.3	0.55	0.7
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/21/73-09/15/73	4	8.5	8.5	10.	7.	1.667	1.291	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	05/21/73-09/15/73	4	6.5	6.75	8.	6.	0.917	0.957	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/21/73-11/27/73	25	12.4	12.232	13.7	10.4	1.294	1.138	10.6	11.3	13.25	13.7
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/21/73-11/27/73	25	105.	104.44	111.	97.	15.673	3.959	97.	101.5	107.	110.4
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/21/73-11/27/73	20	42.	41.8	43.	41.	0.589	0.768	41.	41.	42.	43.
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/21/73-11/27/73	25	0.005	0.005	0.013	0.002	0.	0.003	0.002	0.003	0.008	0.01
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/21/73-11/27/73	25	0.3	0.284	0.3	0.2	0.001	0.037	0.2	0.3	0.3	0.3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/21/73-11/27/73	18	0.006	0.008	0.018	0.003	0.	0.004	0.004	0.004	0.011	0.015
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/21/73-11/27/73	16	0.005	0.006	0.014	0.002	0.	0.004	0.002	0.002	0.008	0.013
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/21/73-11/27/73	25	0.001	0.001	0.009	0.	0.	0.002	0.	0.001	0.002	0.002
00940	CHLORIDE,TOTAL IN WATER MG/L	05/21/73-10/24/73	12	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/21/73-11/27/73	25	2.4	2.4	2.5	2.3	0.004	0.065	2.3	2.4	2.4	2.5
31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	06/25/73-10/24/73	7	150.	104.143	180.	1.	6115.143	78.199	**	**	**	**
31503	LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	06/25/73-10/24/73	7	2.176	1.696	2.255	0.	0.678	0.824	**	**	**	**
31503	GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =			49.69								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/21/73-05/21/73	1	2.	2.	2.	2.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/21/73-05/21/73	1	0.301	0.301	0.301	0.301	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			2.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/21/73-05/21/73	1	1.	1.	1.	1.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/21/73-05/21/73	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	06/25/73-10/24/73	9	91.	89.556	181.	9.	3357.528	57.944	9.	37.5	140.5	181.

** - Less than 9 observations ## - 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: APIS0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31749	LOG PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	06/25/73-10/24/73	9	1.959	1.821	2.258	0.954	0.176	0.42	0.954	1.544	2.143	2.258
31749	GM PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	GEOMETRIC MEAN =			66.283								

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

EPA Water Quality Criteria Analysis for Station: APIS0002

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	25	0	0.00	16	0	0.00							9	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	25	0	0.00	16	0	0.00							9	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	25	0	0.00	16	0	0.00							9	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	12	0	0.00	8	0	0.00							4	0	0.00
		Drinking Water	250.	12	0	0.00	8	0	0.00							4	0	0.00
31503	COLIFORM,TOT,MEMBRANE FILTR,DELAY. M-END	Other-Hi Lim.	1000.	7	0	0.00	6	0	0.00							1	0	0.00
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: APIS0003

NPS Station ID: APIS0003 LAT/LON: 46.983337/ -90.340005 Agency: AIJCCCIW Date Created: 09/30/77
Location: 8 MI NE OF MICHIGAN ISLAND FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): C76SU025
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04020300 Depth of Water: 951 Aquifer:
Major Basin: GREAT LAKES Elevation: 0 Water Body Id:
Minor Basin: L. SUPERIOR-CANADIAN 1976 STATION #25 ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 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. USEPA CONTACTS: NELSON THOMAS OR WILLIAM RICHARDSON, 313-226-7811. DATA FOR THIS STATION IN 1976 WAS COLLECTED IN PART FOR THE IJC INTERNATIONAL SURVEILLANCE PROGRAM FOR THE GREAT LAKES. ADDITIONAL INFORMATION ON GREAT LAKES CANADIAN DATA IS ON DATA SET CN.EPANAT.CNLL.CANADA.NEWS AT THE STORET COMPUTER SITE.

Parameter Inventory for Station: APIS0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/16/76-06/16/76	4	22.5	33.25	88.	0.	1698.25	41.21	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/76-06/16/76	4	4.8	4.8	5.	4.6	0.033	0.183	**	**	**	**
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	06/16/76-06/16/76	1	52.	52.	52.	52.	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/16/76-06/16/76	3	0.3	0.333	0.4	0.3	0.003	0.058	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/16/76-06/16/76	3	97.	96.667	97.	96.	0.333	0.577	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/16/76-06/16/76	3	13.2	13.167	13.2	13.1	0.003	0.058	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/16/76-06/16/76	3	104.	104.	104.	104.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/16/76-06/16/76	3	7.7	7.7	7.77	7.63	0.005	0.07	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/16/76-06/16/76	3	7.7	7.696	7.77	7.63	0.005	0.07	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/16/76-06/16/76	3	0.02	0.02	0.023	0.017	0.	0.003	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/16/76-06/16/76	3	40.	40.333	41.	40.	0.333	0.577	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	06/16/76-06/16/76	3	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/16/76-06/16/76	3	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/16/76-06/16/76	3	0.004	0.004	0.004	0.003	0.	0.001	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	06/16/76-06/16/76	3	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/16/76-06/16/76	3	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	06/16/76-06/16/76	3	0.1	0.097	0.1	0.09	0.	0.006	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/16/76-06/16/76	3	13.	13.	13.1	12.9	0.01	0.1	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/16/76-06/16/76	3	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/16/76-06/16/76	3	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/16/76-06/16/76	3	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/16/76-06/16/76	3	1.	1.	1.	1.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	06/16/76-06/16/76	3	2.6	2.567	2.6	2.5	0.003	0.058	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/16/76-06/16/76	3	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	06/16/76-06/16/76	3	0.5	0.667	1.	0.5	0.083	0.289	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	06/16/76-06/16/76	3	0.5	0.667	1.	0.5	0.083	0.289	**	**	**	**

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

Parameter Inventory for Station: APIS0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01049	LEAD, DISSOLVED (UG/L AS PB)	06/16/76-06/16/76	3	1.	1.	1.	1.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	06/16/76-06/16/76	3	1.	1.	1.	1.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	06/16/76-06/16/76	3	1.	1.333	2.	1.	0.333	0.577	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0003

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	3	0	0.00										3	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	0.00										3	0	0.00
00400	PH	Fresh Chronic	9.	3	0	0.00										3	0	0.00
		Other-Lo Lim.	6.5	3	0	0.00										3	0	0.00
00631	NITRITE 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
		Drinking Water	250.	3	0	0.00										3	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	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	15.	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
		Drinking Water	5000.	3	0	0.00										3	0	0.00

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

Station Inventory for Station: APIS0004

NPS Station ID: APIS0004
LAT/LON: 46.983616/ -90.340005
Agency: AIJCCCIW
Date Created: 09/16/89
Location: OPEN LAKE STATION
FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): C86SU187
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 88
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: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0004

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/17/87-05/07/89	12	56.	45.75	92.	0.	1311.659	36.217	0.	3.	77.25	91.1
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/17/87-05/07/89	10	4.45	3.78	5.5	1.8	2.908	1.705	1.8	1.875	5.5	5.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/17/87-05/17/87	1	94.	94.	94.	94.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/17/87-05/07/89	2	13.5	13.5	13.8	13.2	0.18	0.424	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/17/87-05/07/89	2	104.	104.	107.	101.	18.	4.243	**	**	**	**
00400	PH (STANDARD UNITS)	05/17/87-05/07/89	2	7.82	7.82	7.84	7.8	0.001	0.028	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/17/87-05/07/89	2	7.82	7.82	7.84	7.8	0.001	0.028	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/17/87-05/07/89	2	0.015	0.015	0.016	0.014	0.	0.001	**	**	**	**
00601	NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	05/17/87-05/07/89	2	0.017	0.017	0.019	0.014	0.	0.004	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/17/87-05/07/89	2	0.003	0.003	0.003	0.002	0.	0.001	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/07/89-05/07/89	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/17/87-05/07/89	2	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/17/87-05/07/89	2	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/17/87-05/07/89	2	0.002	0.002	0.002	0.001	0.	0.001	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/17/87-05/07/89	2	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	05/17/87-05/17/87	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/17/87-05/07/89	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/17/87-05/07/89	2	13.25	13.25	13.3	13.2	0.005	0.071	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/17/87-05/07/89	2	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/17/87-05/07/89	2	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/17/87-05/07/89	2	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/17/87-05/07/89	2	3.2	3.2	3.3	3.1	0.02	0.141	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/17/87-05/07/89	2	2.45	2.45	2.5	2.4	0.005	0.071	**	**	**	**
32000	SAMPLE SIZE (LITERS)	05/17/87-05/17/87	1	55.	55.	55.	55.	0.	0.	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/17/87-05/07/89	2	0.9	0.9	1.1	0.7	0.08	0.283	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/17/87-05/07/89	2	0.9	0.9	1.1	0.7	0.08	0.283	**	**	**	**
34367	ENDRIN ALDEHYDE DISSUG/L	05/17/87-05/17/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
34536	1,2-DICHLOROBENZENE TOTWUG/L	05/17/87-05/17/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
34551	1,2,4-TRICHLOROBENZENE TOTWUG/L	05/17/87-05/17/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
34571	1,4-DICHLOROBENZENE TOTWUG/L	05/17/87-05/17/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/17/87-05/07/89	2	40.5	40.5	41.	40.	0.5	0.707	**	**	**	**
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	05/17/87-05/17/87	1	0.009	0.009	0.009	0.009	0.	0.	**	**	**	**
39348	CHLORDANE, ALPHA, IN WHOLE WATER SAMPLE (UG/L)	05/17/87-05/17/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	05/17/87-05/17/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	05/17/87-05/17/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	05/17/87-05/17/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	05/17/87-05/17/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	05/17/87-05/17/87	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: APIS0004

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
77613	1,2,3-TRICHLOROBENZENE WHOLE WATER,UG/L	05/17/87-05/17/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
77736	1,2,3,4-TETRACHLOROBENZENE WHOLE WATER,UG/L	05/17/87-05/17/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
77793	PENTACHLOROBENZENE WHOLE WATER,UG/L	05/17/87-05/17/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	05/17/87-05/07/89	2	1.3	1.3	1.4	1.2	0.02	0.141	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0004

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	2	0	0.00										2	0	0.00
00400	PH	Fresh Chronic	9.	2	0	0.00										2	0	0.00
		Other-Lo Lim.	6.5	2	0	0.00										2	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	2	0	0.00										2	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	2	0	0.00										2	0	0.00
34536	1,2-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00										1	0	0.00
34551	1,2,4-TRICHLOROBENZENE, TOTAL	Drinking Water	70.	1	0	0.00										1	0	0.00
34571	1,4-DICHLOROBENZENE, TOTAL	Drinking Water	75.	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
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00										1	0	0.00
		Drinking Water	0.2	1	0	0.00										1	0	0.00
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	Fresh Acute	6.	1	0	0.00										1	0	0.00
		Drinking Water	1.	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
82295	CHLORIDE DISSOLVED AS CL IN WATER	Fresh Acute	860000.	2	0	0.00										2	0	0.00
		Drinking Water	250000.	2	0	0.00										2	0	0.00

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

Station Inventory for Station: APIS0005

NPS Station ID: APIS0005
LAT/LON: 46.986115/ -90.340281
Agency: AIJCCCIW
Date Created: 12/17/94
Location: OPEN LAKE STATION
FIPS State/County: 00996 CANADA/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): C91SU187
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 91
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/15/91-09/03/91	11	49.	44.818	85.	0.	1436.364	37.899	0.	3.	85.	85.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/91-09/03/91	2	10.65	10.65	17.9	3.4	105.125	10.253	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/15/91-05/15/91	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	05/15/91-05/15/91	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/91-09/03/91	6	102.	101.	105.	96.	11.2	3.347	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/15/91-09/03/91	6	12.1	11.983	13.8	10.6	1.398	1.182	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/15/91-09/03/91	6	101.5	104.333	115.	97.	64.667	8.042	**	**	**	**
00400	PH (STANDARD UNITS)	05/15/91-09/03/91	6	7.49	7.542	7.95	7.34	0.046	0.215	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/15/91-09/03/91	6	7.49	7.505	7.95	7.34	0.048	0.219	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/15/91-09/03/91	6	0.032	0.031	0.046	0.011	0.	0.012	**	**	**	**
00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/15/91-09/03/91	2	0.017	0.017	0.02	0.014	0.	0.004	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/15/91-05/15/91	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/15/91-09/03/91	6	0.083	0.083	0.105	0.061	0.	0.016	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/15/91-05/15/91	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/15/91-09/03/91	6	0.003	0.003	0.003	0.002	0.	0.001	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/15/91-09/03/91	6	0.002	0.002	0.002	0.001	0.	0.001	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/15/91-05/15/91	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/15/91-09/03/91	2	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/15/91-05/15/91	1	13.4	13.4	13.4	13.4	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/15/91-05/15/91	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/91-05/15/91	1	1.39	1.39	1.39	1.39	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/91-05/15/91	1	0.49	0.49	0.49	0.49	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/15/91-09/03/91	6	1.	1.	1.	1.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/15/91-09/03/91	6	3.4	3.45	3.9	3.2	0.063	0.251	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/15/91-09/03/91	6	2.35	2.317	2.5	2.1	0.034	0.183	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/15/91-09/03/91	2	0.6	0.6	0.7	0.5	0.02	0.141	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/15/91-09/03/91	2	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/15/91-09/03/91	6	37.	37.5	41.	36.	3.5	1.871	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0005

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	6	0	0.00	5	0	0.00							1	0	0.00
00400	PH	Fresh Chronic	9.	6	0	0.00	5	0	0.00							1	0	0.00
		Other-Lo Lim.	6.5	6	0	0.00	5	0	0.00							1	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00										1	0	0.00
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	6	0	0.00	5	0	0.00							1	0	0.00
		Drinking Water	250.	6	0	0.00	5	0	0.00							1	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	6	0	0.00	5	0	0.00							1	0	0.00

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

Station Inventory for Station: APIS0006

NPS Station ID: APIS0006
LAT/LON: 46.985838/ -90.340281
Agency: AIJCCCIW
Date Created: 12/17/94
Location: OPEN LAKE STATION
FIPS State/County: 00996 CANADA/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): C90SU187
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 98
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/06/90-05/06/90	4	46.	45.25	89.	0.	2553.583	50.533	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/06/90-05/06/90	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/06/90-05/06/90	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	05/06/90-05/06/90	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/06/90-05/06/90	1	103.	103.	103.	103.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/06/90-05/06/90	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/06/90-05/06/90	1	105.	105.	105.	105.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/06/90-05/06/90	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/06/90-05/06/90	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/06/90-05/06/90	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/06/90-05/06/90	1	0.039	0.039	0.039	0.039	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/06/90-05/06/90	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/06/90-05/06/90	1	0.062	0.062	0.062	0.062	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/06/90-05/06/90	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/06/90-05/06/90	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/06/90-05/06/90	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/06/90-05/06/90	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/06/90-05/06/90	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/06/90-05/06/90	1	13.6	13.6	13.6	13.6	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/06/90-05/06/90	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/06/90-05/06/90	1	1.38	1.38	1.38	1.38	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/06/90-05/06/90	1	0.51	0.51	0.51	0.51	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/06/90-05/06/90	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/06/90-05/06/90	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/06/90-05/06/90	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/06/90-05/06/90	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/06/90-05/06/90	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/06/90-05/06/90	1	41.	41.	41.	41.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0006

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00										1	0	0.00
00400	PH	Fresh Chronic	9.	1	0	0.00										1	0	0.00
		Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00										1	0	0.00
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00										1	0	0.00
		Drinking Water	250.	1	0	0.00										1	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: APIS0007

NPS Station ID: APIS0007
LAT/LON: 46.985005/ -90.340838
Agency: AIJCCCIW
Date Created: 12/17/94
Location: OPEN LAKE STATION
FIPS State/County: 00996 CANADA/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): C92SU187
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 88
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0007

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/11/92-09/09/92	10	56.	41.4	79.	0.	1263.6	35.547	0.	2.25	73.75	79.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/11/92-09/09/92	2	8.05	8.05	13.	3.1	49.005	7.	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/11/92-09/09/92	2	8.35	8.35	9.2	7.5	1.445	1.202	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	05/11/92-09/09/92	2	5.5	5.5	6.	5.	0.5	0.707	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/11/92-09/09/92	5	99.	99.4	105.	97.	10.8	3.286	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/11/92-09/09/92	5	11.4	11.76	14.6	10.4	2.748	1.658	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/11/92-09/09/92	5	102.	103.6	111.	101.	17.8	4.219	**	**	**	**
00400	PH (STANDARD UNITS)	05/11/92-09/09/92	5	7.76	7.612	7.79	7.05	0.1	0.316	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/11/92-09/09/92	5	7.76	7.495	7.79	7.05	0.117	0.343	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/11/92-09/09/92	5	0.017	0.032	0.089	0.016	0.001	0.032	**	**	**	**
00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/11/92-09/09/92	2	0.028	0.028	0.028	0.027	0.	0.001	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/11/92-05/11/92	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/11/92-09/09/92	5	0.125	0.124	0.14	0.107	0.	0.012	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/11/92-05/11/92	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/11/92-09/09/92	5	0.004	0.003	0.004	0.002	0.	0.001	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/11/92-09/09/92	5	0.003	0.003	0.004	0.002	0.	0.001	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/11/92-05/11/92	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/11/92-09/09/92	2	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/11/92-05/11/92	1	13.6	13.6	13.6	13.6	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/11/92-05/11/92	1	2.9	2.9	2.9	2.9	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/11/92-05/11/92	1	1.38	1.38	1.38	1.38	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/11/92-05/11/92	1	0.46	0.46	0.46	0.46	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/11/92-09/09/92	5	1.	1.	1.	1.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/11/92-09/09/92	5	3.4	6.72	19.6	3.2	52.012	7.212	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/11/92-09/09/92	5	2.4	2.38	2.5	2.3	0.007	0.084	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/11/92-09/09/92	2	1.05	1.05	1.2	0.9	0.045	0.212	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/11/92-09/09/92	2	0.65	0.65	0.7	0.6	0.005	0.071	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/11/92-09/09/92	5	42.	38.	43.	24.	65.5	8.093	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0007

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	5	0	0.00	4	0	0.00							1	0	0.00
00400	PH	Fresh Chronic	9.	5	0	0.00	4	0	0.00							1	0	0.00
		Other-Lo Lim.	6.5	5	0	0.00	4	0	0.00							1	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00										1	0	0.00
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	5	0	0.00	4	0	0.00							1	0	0.00
		Drinking Water	250.	5	0	0.00	4	0	0.00							1	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	5	0	0.00	4	0	0.00							1	0	0.00

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

Station Inventory for Station: APIS0008

NPS Station ID: APIS0008
LAT/LON: 46.983337/ -90.341670
Agency: AIJCCCIW
Date Created: 12/17/94
Location: OPEN LAKE STATION
FIPS State/County: 00996 CANADA/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): C89SU187
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 91
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/07/89-05/07/89	4	34.5	33.75	66.	0.	1388.25	37.259	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/07/89-05/07/89	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/07/89-05/07/89	1	13.8	13.8	13.8	13.8	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/07/89-05/07/89	1	101.	101.	101.	101.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/07/89-05/07/89	1	7.84	7.84	7.84	7.84	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/07/89-05/07/89	1	7.84	7.84	7.84	7.84	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/07/89-05/07/89	1	0.014	0.014	0.014	0.014	0.	0.	**	**	**	**
00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/07/89-05/07/89	1	0.014	0.014	0.014	0.014	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/07/89-05/07/89	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/07/89-05/07/89	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/07/89-05/07/89	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/07/89-05/07/89	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/07/89-05/07/89	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/07/89-05/07/89	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/07/89-05/07/89	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/07/89-05/07/89	1	13.2	13.2	13.2	13.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/07/89-05/07/89	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/07/89-05/07/89	1	1.35	1.35	1.35	1.35	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/07/89-05/07/89	1	0.53	0.53	0.53	0.53	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/07/89-05/07/89	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/07/89-05/07/89	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/07/89-05/07/89	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/07/89-05/07/89	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/07/89-05/07/89	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/07/89-05/07/89	1	40.	40.	40.	40.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0008

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00										1	0	0.00
00400	PH	Fresh Chronic	9.	1	0	0.00										1	0	0.00
		Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00

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

EPA Water Quality Criteria Analysis for Station: APIS0008

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00										1	0	0.00
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00										1	0	0.00
		Drinking Water	250.	1	0	0.00										1	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: APIS0009

NPS Station ID: APIS0009 LAT/LON: 47.079365/ -90.416420 Agency: 11NPSWRD Date Created: 04/04/98
Location: LAKE SUPERIOR NORTH OF OUTER ISLAND LIGHTHOUSE FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): APIS_UW_OUTER
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE OUTER ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON LAKE SUPERIOR APPROXIMATELY 1/2 MILE NORTH OF THE LIGHTHOUSE ON OUTER ISLAND. SAMPLES FOR THIS SITE WERE COLLECTED IN 1986 AND 1987. SAMPLES WERE ANALYZED FOR FECAL COLIFORM AND FECAL STREPTOCOCCUS. THE RESULTS ARE IN "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE 1986-1988" BY MARY BALCER AND DENNIS MCCAULEY WITH THE CENTER FOR LAKE SUPERIOR ENVIRONMENTAL STUDIES; UNIVERSITY OF WISCONSIN-SUPERIOR (MARCH 1989). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/13/86-09/07/87	43 ##	0.5	1.256	10.	0.5	2.766	1.663	0.5	0.5	1.	3.2
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/13/86-09/07/87	43 ##	-0.301	-0.068	1.	-0.301	0.108	0.328	-0.301	-0.301	0.	0.482
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			0.856								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/13/86-09/07/87	43	279.	681.302	3355.	1.	846085.168	919.829	21.4	70.	1098.	2356.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/13/86-09/07/87	43	2.446	2.308	3.526	0.	0.716	0.846	1.33	1.845	3.041	3.372
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			203.015								

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

EPA Water Quality Criteria Analysis for Station: APIS0009

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	43	0	0.00	22	0	0.00							21	0	0.00

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

Station Inventory for Station: APIS0010

NPS Station ID: APIS0010
LAT/LON: 46.916670/ -90.416671
Agency: 1115GLSB
Date Created: 05/10/86
Location: APOSTLE ISLANDS
FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): FS-02
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 299
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: APOSTLE ISLANDS
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	11/01/77-11/01/79	32	294.	294.125	299.	290.	8.629	2.938	290.3	291.25	296.75	298.7
00019	SAMPLE WEIGHT IN GRAMS	11/01/77-11/01/79	32	1807.	1959.175	4354.2	269.8	1966261.22	1402.234	337.44	472.85	3485.55	3955.62
00024	SAMPLE LENGTH IN INCHES	11/01/77-11/01/79	32	555.8	530.931	719.6	317.	20623.826	143.61	338.1	374.4	684.6	697.5
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	11/01/77-11/01/79	9	0.002	0.011	0.085	0.001	0.001	0.028	0.001	0.002	0.003	0.085
34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	11/01/77-11/01/79	29	0.067	0.087	0.261	0.033	0.003	0.054	0.043	0.05	0.11	0.182
34687	HEPTACHLOR WET WGTTISMG/KG	11/01/77-11/01/79	7	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34690	PCB - 1254 WET WGTTISMG/KG	11/01/77-11/01/79	32	0.868	1.068	3.701	0.072	0.505	0.711	0.422	0.608	1.293	1.992
39105	PERCENT FAT HEXANE EXTRACTION	11/01/77-11/01/79	32	17.2	15.169	28.8	3.6	45.956	6.779	5.57	7.9	20.225	23.76
39302	P P DDT IN TISSUE WET WGT (UG/G)	11/01/77-11/01/79	28	0.075	0.105	0.33	0.03	0.005	0.07	0.04	0.06	0.15	0.179
39307	O P DDT IN TISSUE WET WGT (UG/G)	11/01/77-11/01/79	31	0.12	0.149	0.83	0.02	0.021	0.145	0.032	0.07	0.17	0.248
39312	P P DDD IN TISSUE WET WGT (UG/G)	11/01/77-11/01/79	16	0.04	0.049	0.1	0.009	0.001	0.03	0.01	0.023	0.082	0.093
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	11/01/77-11/01/79	32	0.335	0.378	1.17	0.07	0.062	0.25	0.113	0.163	0.468	0.717
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	11/01/77-11/01/79	32	0.05	0.05	0.11	0.01	0.	0.021	0.02	0.033	0.06	0.077
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	11/01/77-11/01/79	32	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
81760	O,P'-DDE IN FISH TISSUE WET WEIGHT MG/KG	11/01/77-11/01/79	26	0.203	0.246	0.549	0.024	0.028	0.168	0.039	0.098	0.391	0.523
82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	11/01/77-11/01/79	30	0.07	0.162	0.93	0.026	0.043	0.207	0.031	0.041	0.173	0.45

** - 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 time series plot

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

Station Inventory for Station: APIS0011

NPS Station ID: APIS0011
LAT/LON: 47.083338/ -90.416671
Agency: 21WITIS
Date Created: 02/11/89
Location: LAKE SUPERIOR 12 GRID 1211
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE/TISSUE
STORET Station ID(s): 025017 /8280MA025017
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 55
Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
STATION FOR LEE LIEBENSTEIN OF BUR WATER RES MGT (608)266-0164

Parameter Inventory for Station: APIS0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/09/88-08/04/92	9	301.	419.889	852.	291.	59898.611	244.742	291.	292.5	577.	852.
00023	SAMPLE WEIGHT IN POUNDS	08/09/88-08/04/92	9	0.97	4.508	11.35	0.11	23.202	4.817	0.11	0.365	9.04	11.35
00024	SAMPLE LENGTH IN INCHES	08/09/88-08/04/92	9	14.6	19.656	30.9	8.1	100.895	10.045	8.1	10.35	30.	30.9
34670	PCB - 1260 WET WGTTISMG/KG	04/27/91-04/27/91	4	0.925	1.14	2.4	0.31	0.94	0.97	**	**	**	**
34690	PCB - 1254 WET WGTTISMG/KG	08/04/92-08/04/92	1	0.047	0.047	0.047	0.047	0.	0.	**	**	**	**
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	08/09/88-08/04/92	8 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	08/09/88-08/04/92	8 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39302	P P DDT IN TISSUE WET WGT (UG/G)	08/09/88-08/04/92	8 ##	0.025	0.045	0.15	0.025	0.002	0.044	**	**	**	**
39307	O P DDT IN TISSUE WET WGT (UG/G)	08/09/88-08/04/92	8 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39312	P P DDD IN TISSUE WET WGT (UG/G)	08/09/88-08/04/92	8 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	08/09/88-08/04/92	8 ##	0.043	0.184	0.85	0.025	0.086	0.294	**	**	**	**
39325	O,P DDD IN TISSUE WET WGT (UG/G)	08/09/88-08/04/92	8 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39329	O,P DDE IN TISSUE, WET WGT(UG/G)	08/09/88-08/04/92	8 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	08/09/88-08/04/92	8	0.03	0.025	0.05	0.01	0.	0.014	**	**	**	**
39407	TOXAPHENE IN FISH OR ANIMAL(UG/KG WET WEIGHT)	08/09/88-08/09/88	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39515	PCBS (MG/KG) FISH TISSUE MG/KG	08/09/88-08/09/88	3 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	08/09/88-08/04/92	4	0.05	0.044	0.06	0.015	0.	0.02	**	**	**	**
78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	08/09/88-08/04/92	8 ##	0.025	0.051	0.16	0.025	0.003	0.051	**	**	**	**
78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	08/09/88-08/04/92	8 ##	0.025	0.034	0.07	0.025	0.	0.017	**	**	**	**
78926	FAT, PERCENT, IN TISSUE, WET WEIGHT %	08/09/88-08/04/92	8	7.4	7.875	12.	4.3	7.514	2.741	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	08/09/88-08/04/92	9	1.	3.	10.	1.	15.75	3.969	1.	1.	5.5	10.

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

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

Station Inventory for Station: APIS0012

NPS Station ID: APIS0012
LAT/LON: 46.916670/ -90.416671
Agency: 21WITIS
Date Created: 10/22/88
Location: LAKE SUPERIOR 13 GRID 1311
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE/TISSUE
STORET Station ID(s): 025018 /8280MA025018
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 55
Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
STATION FOR LEE LIEBENSTEIN OF BUR WATER RES MGT (608)266-0164 FISH TOXICS MONITORING
LEE LIEBENSTEIN (608) 266-0164 BUREAU WATER RES MAN

Parameter Inventory for Station: APIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/82-04/30/95	102	5610.	3078.412	6541.	11.	6886237.255	2624.164	291.	295.	5614.25	5617.7
00023p	SAMPLE WEIGHT IN POUNDS	10/23/82-04/30/95	101	2.49	4.266	15.21	0.	14.607	3.822	0.01	1.5	7.5	9.436
00024p	SAMPLE LENGTH IN INCHES	10/23/82-04/30/95	101	19.7	20.777	36.9	2.4	70.137	8.375	3.	17.35	28.	30.68
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	06/06/84-10/13/85	5 ##	0.25	0.3	0.5	0.25	0.013	0.112	**	**	**	**
04440	PCB CONGENER #1260, TISSUE, WET WEIGHT UG/G	09/16/93-04/30/95	13	1.1	1.462	6.7	0.56	2.64	1.625	0.604	0.675	1.5	4.78
34670	PCB - 1260 WET WGTTISMG/KG	10/13/88-08/01/91	13	0.74	0.77	2.4	0.11	0.41	0.641	0.158	0.295	1.105	2.
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	06/06/84-10/13/85	5 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
34691	TOXAPHENE WET WGTTISMG/KG	10/19/86-10/19/86	1	2.	2.	2.	2.	0.	0.	**	**	**	**
39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	06/06/84-10/13/85	5 ##	0.01	0.009	0.01	0.005	0.	0.002	**	**	**	**
39063p	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	79 ##	0.025	0.031	0.15	0.025	0.	0.02	0.025	0.025	0.025	0.05
39066p	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	79 ##	0.025	0.025	0.05	0.025	0.	0.003	0.025	0.025	0.025	0.025
39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	10/23/82-10/19/86	29 ##	0.025	0.037	0.11	0.025	0.001	0.026	0.025	0.025	0.025	0.09
39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	10/23/82-10/19/86	29 ##	0.025	0.058	0.23	0.025	0.003	0.058	0.025	0.025	0.07	0.17
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	06/06/84-10/13/85	4 ##	0.013	0.013	0.02	0.005	0.	0.009	**	**	**	**
39075	BHC- GAMMA ISOMER, TISSUE WET WGT (UG/G)	06/06/84-10/13/85	4 ##	0.005	0.01	0.025	0.005	0.	0.01	**	**	**	**
39302p	P P DDT IN TISSUE WET WGT (UG/G)	10/23/82-04/30/95	67 ##	0.025	0.056	0.7	0.	0.013	0.113	0.	0.025	0.05	0.09
39307p	O P DDT IN TISSUE WET WGT (UG/G)	10/23/82-04/30/95	67 ##	0.025	0.032	0.13	0.025	0.	0.019	0.025	0.025	0.025	0.052
39312p	P P DDD IN TISSUE WET WGT (UG/G)	10/23/82-04/30/95	67 ##	0.025	0.039	0.49	0.02	0.004	0.06	0.025	0.025	0.025	0.07
39322p	P,P'-DDE IN TISSUE WET WGT MG/KG	10/23/82-04/30/95	67	0.18	0.287	2.3	0.025	0.151	0.388	0.025	0.1	0.32	0.506
39325p	O,P DDD IN TISSUE WET WGT (UG/G)	10/23/82-04/30/95	67 ##	0.025	0.025	0.05	0.025	0.	0.003	0.025	0.025	0.025	0.025
39329p	O,P DDE IN TISSUE, WET WGT(UG/G)	10/23/82-04/30/95	67 ##	0.025	0.027	0.1	0.025	0.	0.011	0.025	0.025	0.025	0.025
39397	ENDRIN IN SHELLFISH OR ANIMAL (UG/KG WET WEIGHT)	10/23/82-10/13/85	25 ##	0.01	0.011	0.025	0.01	0.	0.003	0.01	0.01	0.01	0.01
39404p	DIELDRIN IN TISSUE WET WGT (UG/G)	10/23/82-04/30/95	70	0.04	0.048	0.18	0.01	0.001	0.032	0.01	0.02	0.07	0.089
39407	TOXAPHENE IN FISH OR ANIMAL(UG/KG WET WEIGHT)	10/13/88-10/13/88	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39515p	PCBS (MG/KG) FISH TISSUE MG/KG	10/23/82-09/18/93	53	0.4	0.824	6.3	0.05	1.617	1.272	0.05	0.1	0.85	1.56
39703	HEXACHLOROBENZENE IN FISH OR ANIMALS WET WGT UG/K	06/06/84-10/13/85	4 ##	0.005	0.006	0.01	0.005	0.	0.003	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	06/06/84-10/13/85	7	0.39	0.356	0.54	0.1	0.019	0.138	**	**	**	**
71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	10/13/88-09/17/93	31	0.3	0.347	0.9	0.015	0.04	0.2	0.015	0.3	0.4	0.66
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	06/06/84-10/13/85	5 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	06/06/84-10/13/85	5	1.6	1.8	3.	1.	0.78	0.883	**	**	**	**
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	06/06/84-10/13/85	5 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	06/06/84-10/13/85	5 ##	0.1	0.14	0.3	0.1	0.008	0.089	**	**	**	**
78922p	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	10/13/88-04/30/95	50	0.07	0.082	0.71	0.025	0.01	0.102	0.025	0.025	0.11	0.139

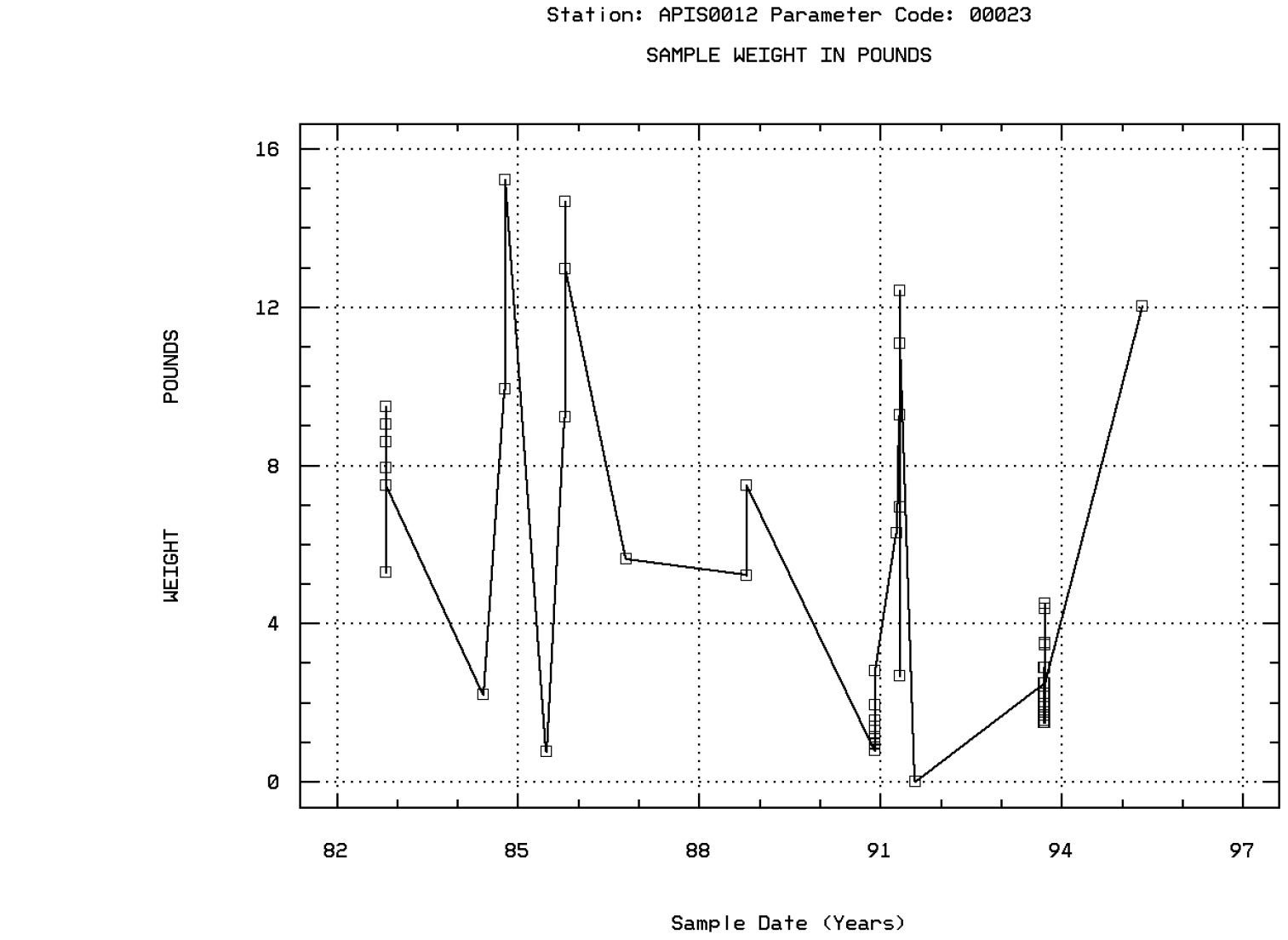
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: APIS0012

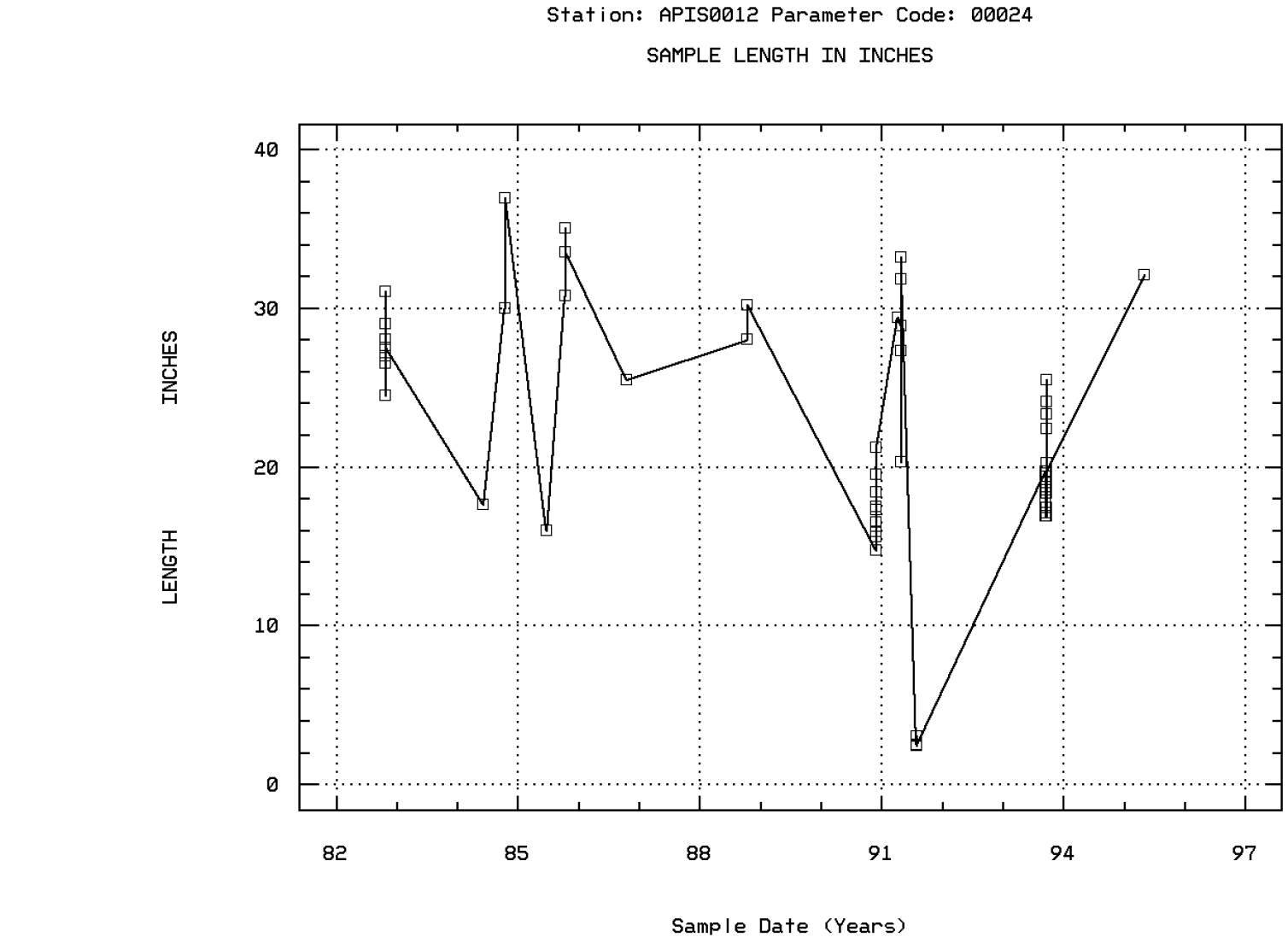
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
78923p	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	10/13/88-04/30/95	50 ##	0.025	0.041	0.11	0.025	0.001	0.025	0.025	0.025	0.06	0.08
78926p	FAT, PERCENT, IN TISSUE, WET WEIGHT %	10/23/82-04/30/95	79	8.6	11.144	35.	0.4	63.453	7.966	2.5	5.1	16.	22.
81614p	NUMBER OF INDIVIDUALS IN THE SAMPLE	10/13/88-04/30/95	72	1.	7.847	100.	1.	401.737	20.043	1.	1.	1.	30.
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	10/23/82-10/13/85	24 ##	0.025	0.024	0.025	0.01	0.	0.003	0.025	0.025	0.025	0.025

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

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



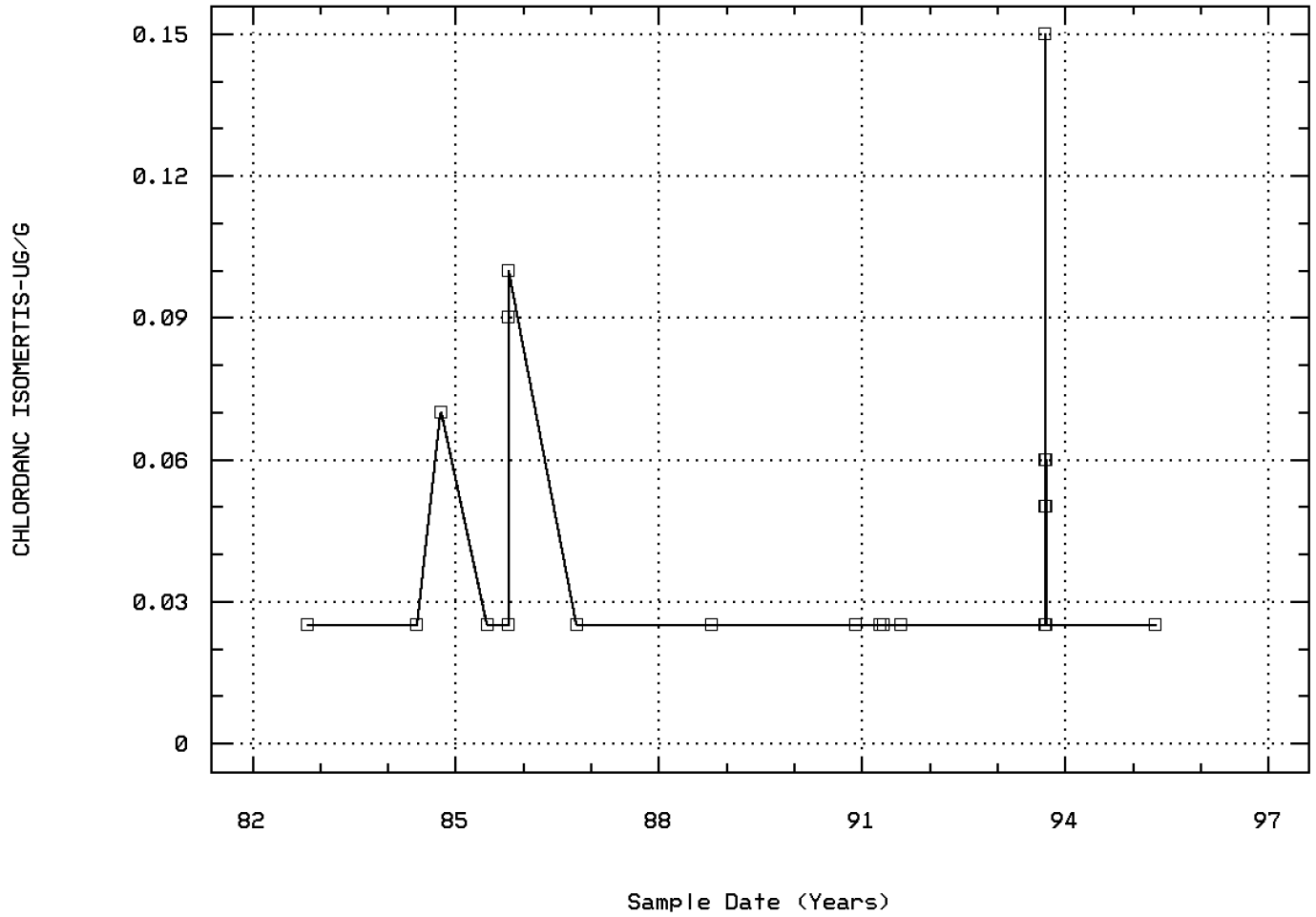
LAKE SUPERIOR 13 GRID 1311



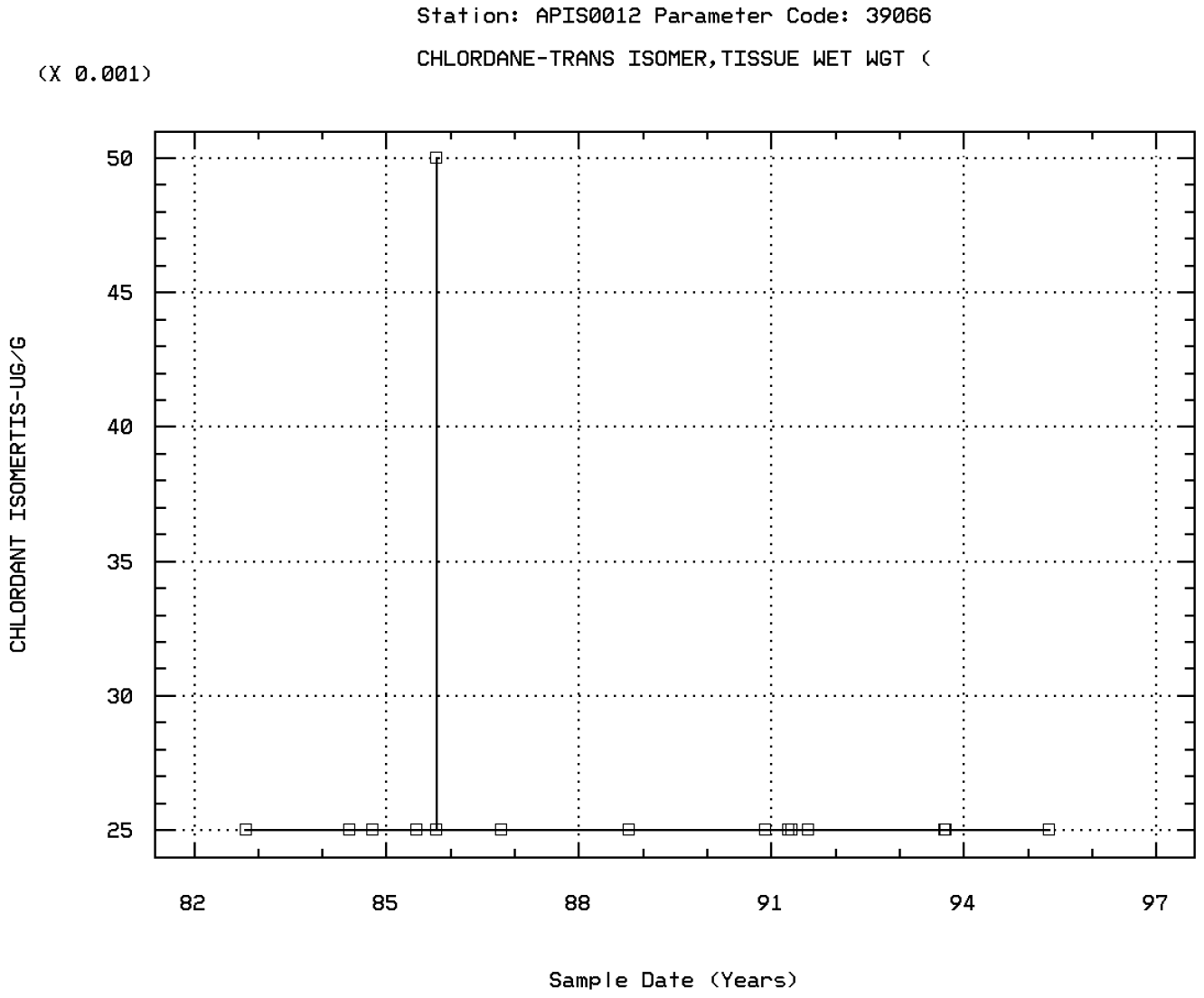
LAKE SUPERIOR 13 GRID 1311

Station: APIS0012 Parameter Code: 39063

CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG



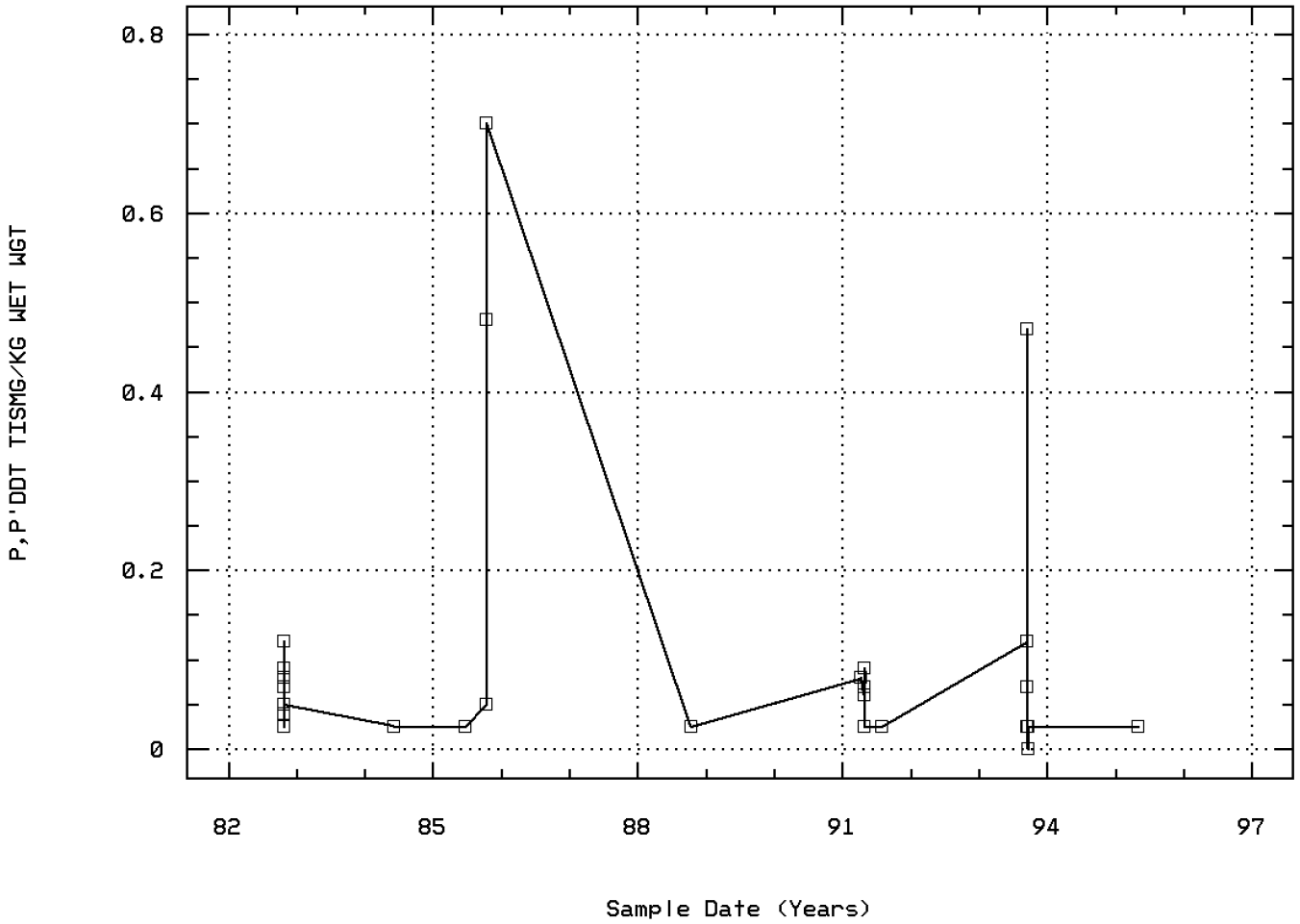
LAKE SUPERIOR 13 GRID 1311



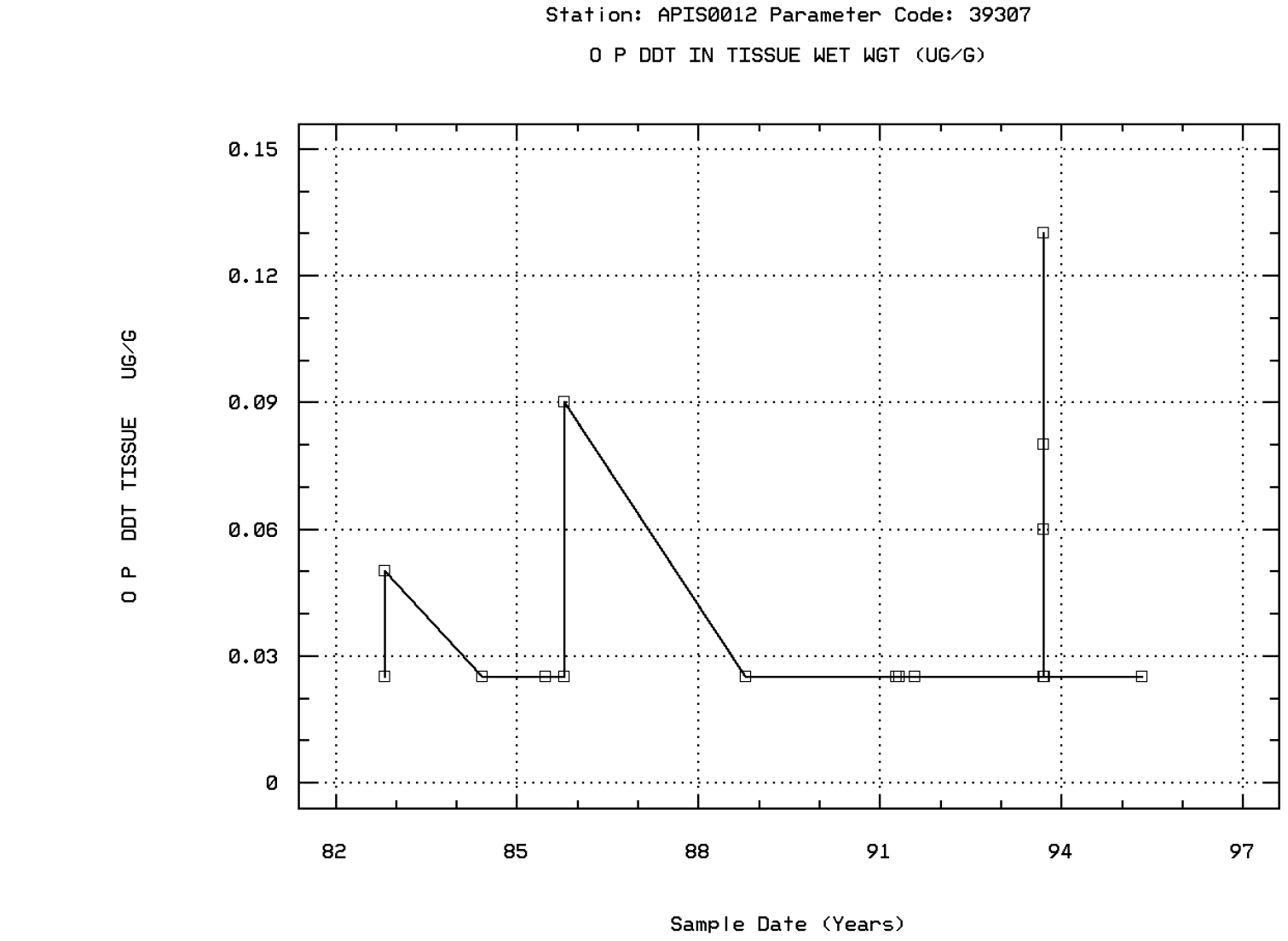
LAKE SUPERIOR 13 GRID 1311

Station: APIS0012 Parameter Code: 39302

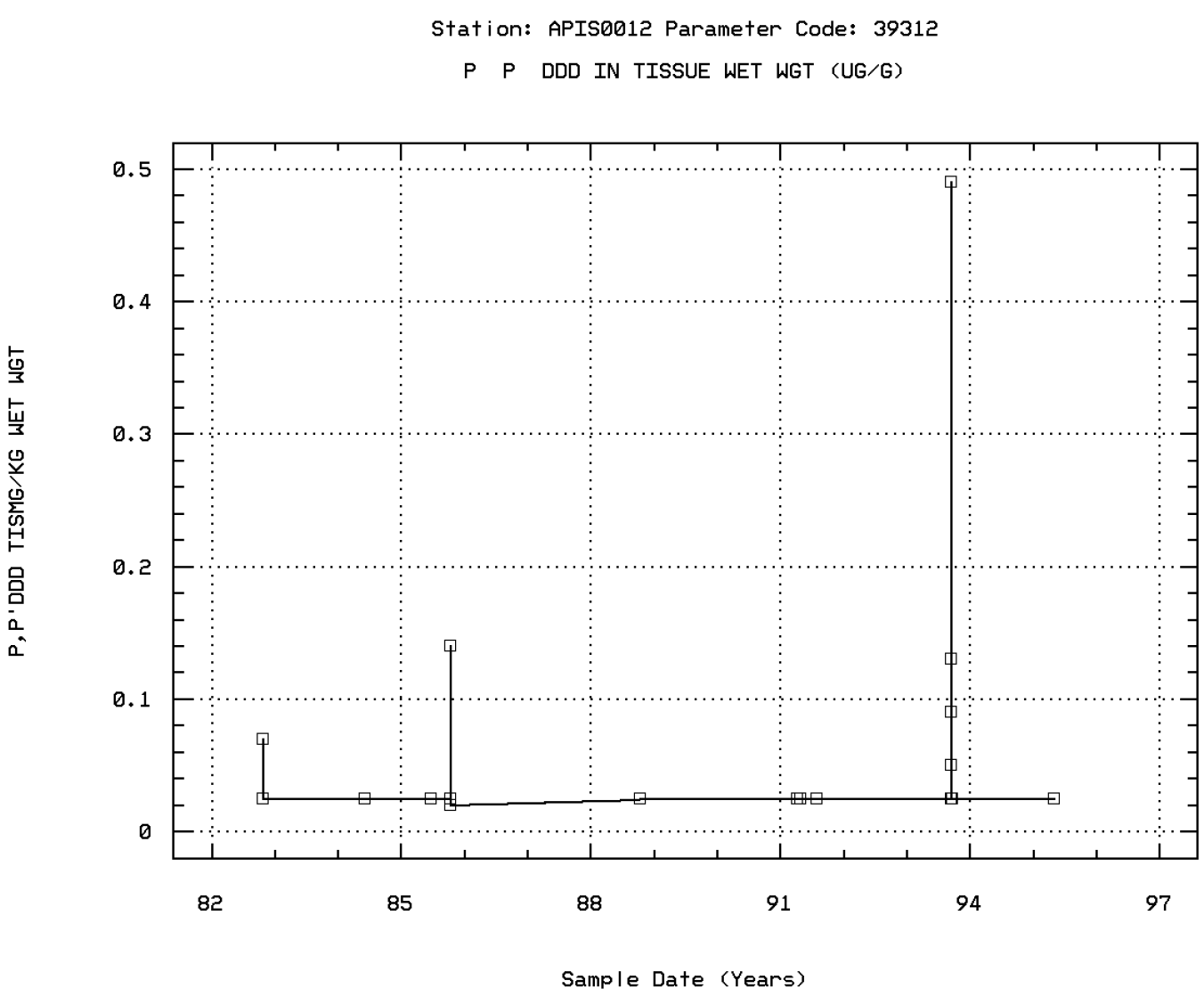
P P DDT IN TISSUE WET WGT (UG/G)



LAKE SUPERIOR 13 GRID 1311



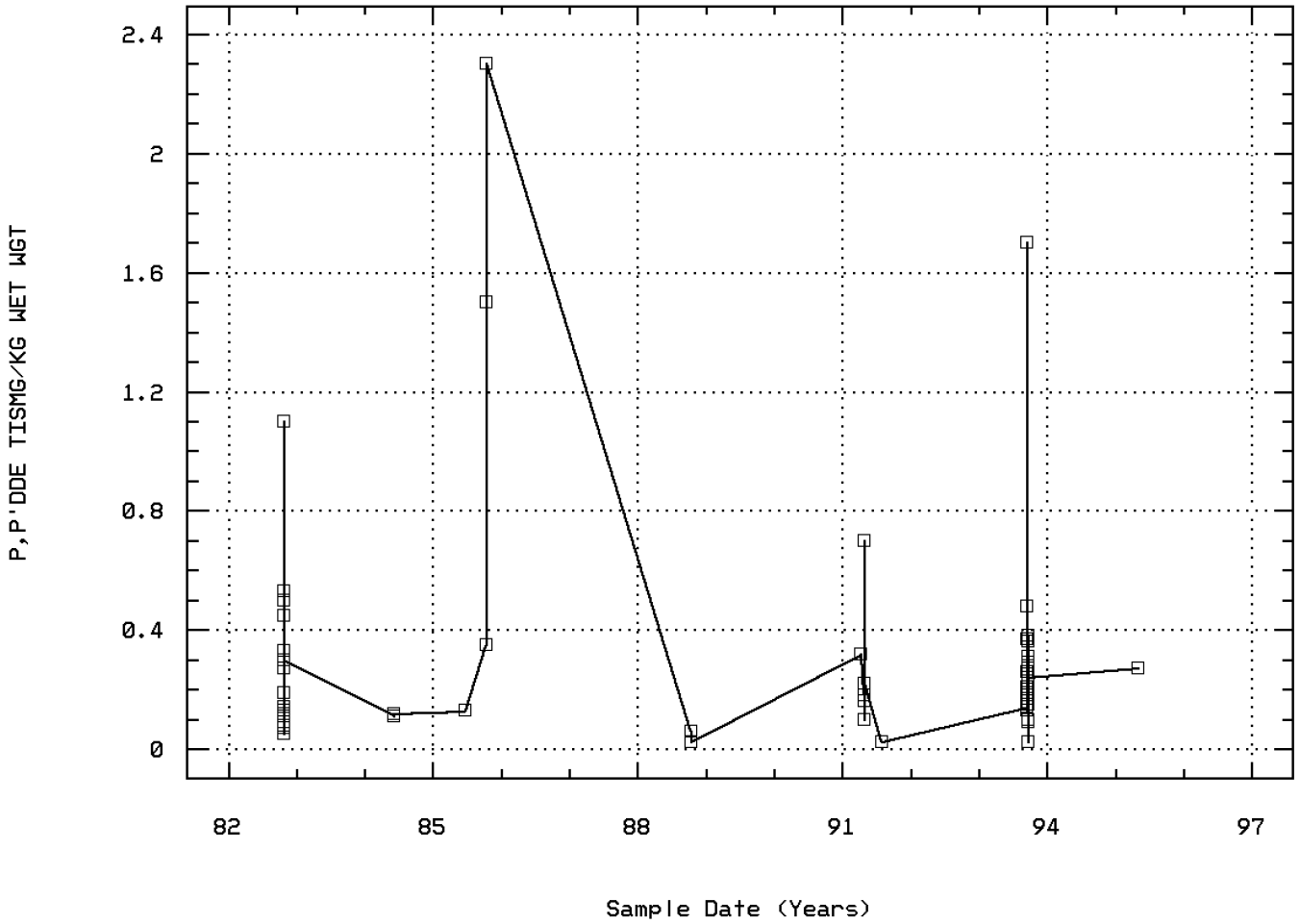
LAKE SUPERIOR 13 GRID 1311



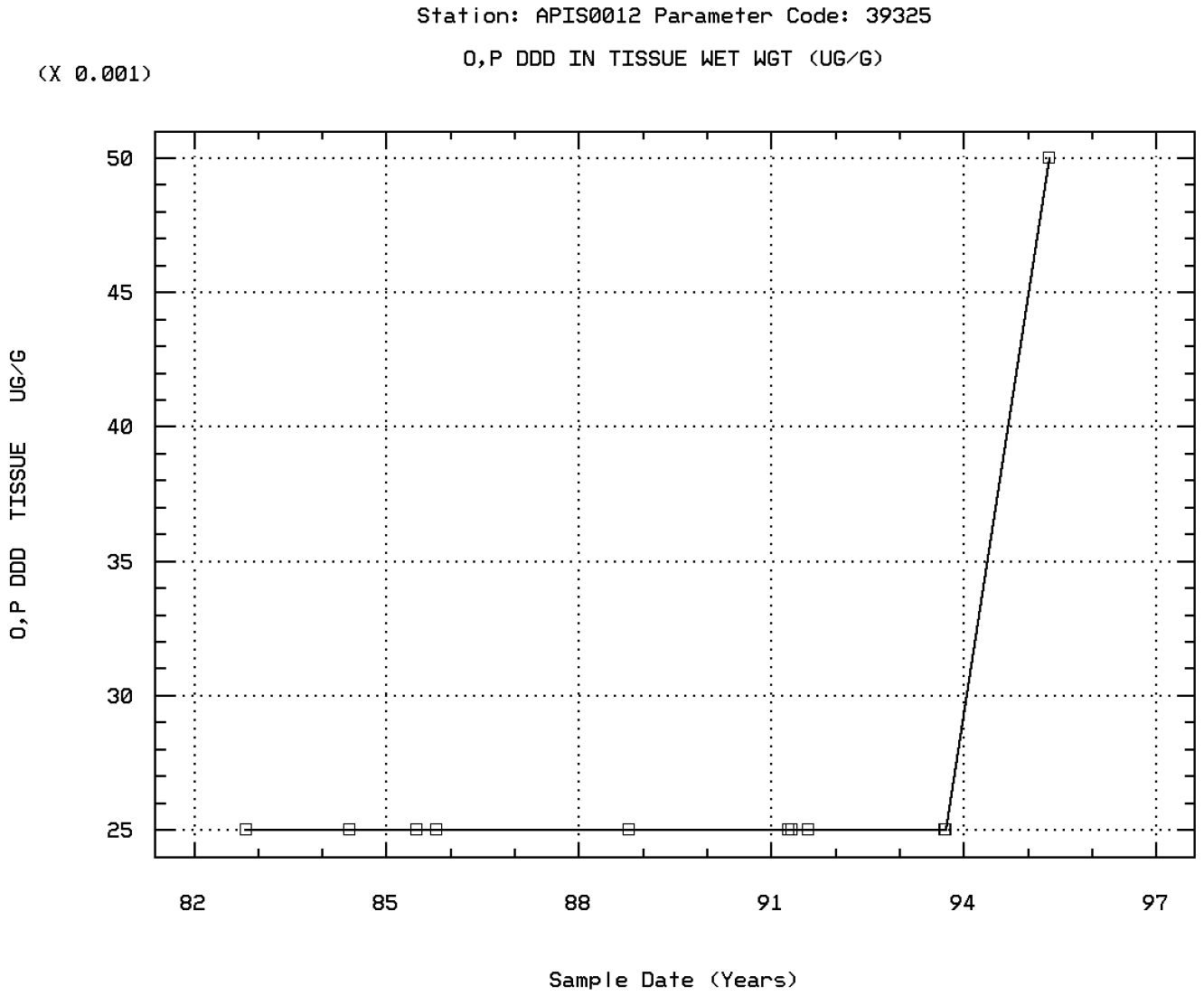
LAKE SUPERIOR 13 GRID 1311

Station: APIS0012 Parameter Code: 39322

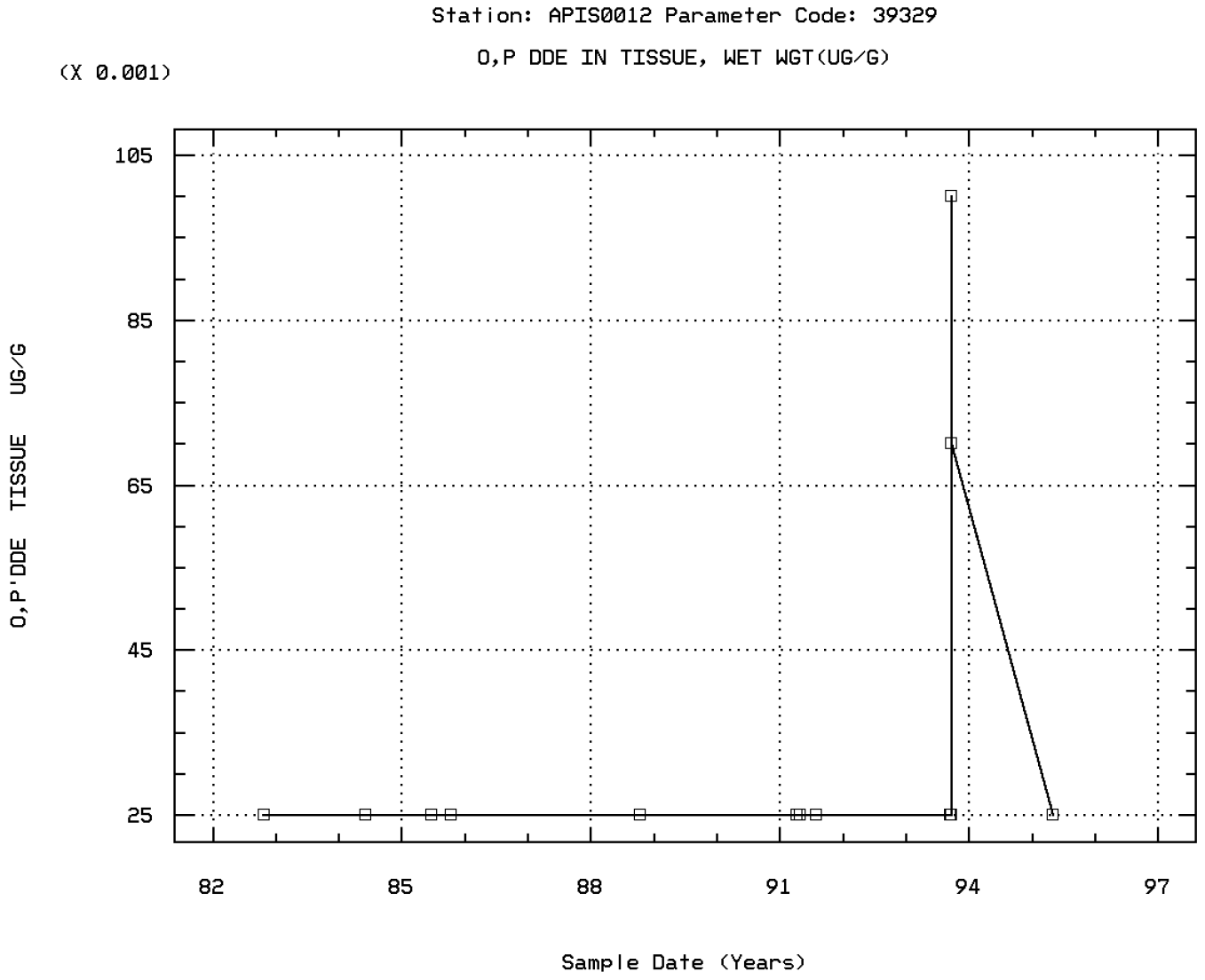
P,P'-DDE IN TISSUE WET WGT MG/KG



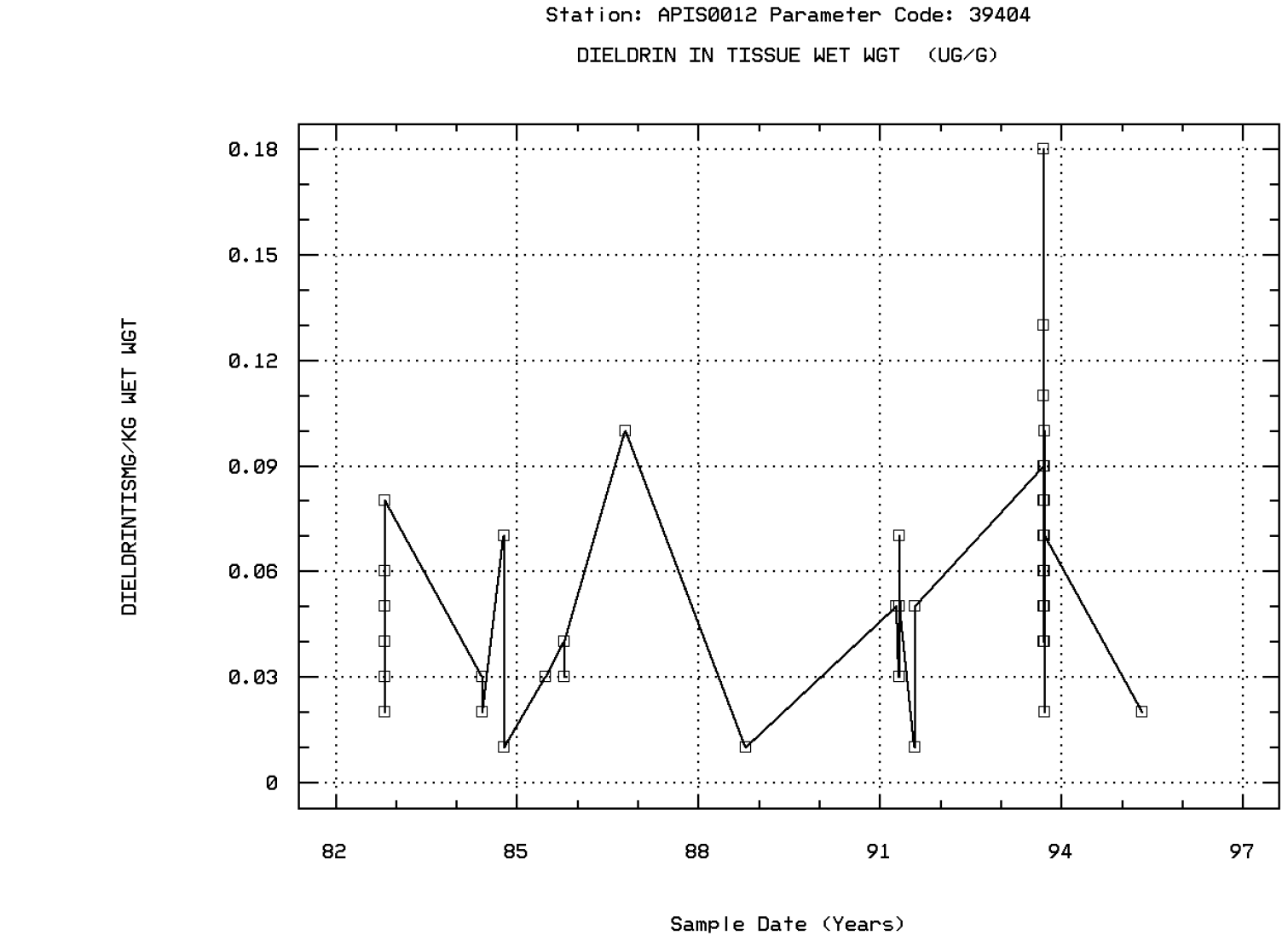
LAKE SUPERIOR 13 GRID 1311



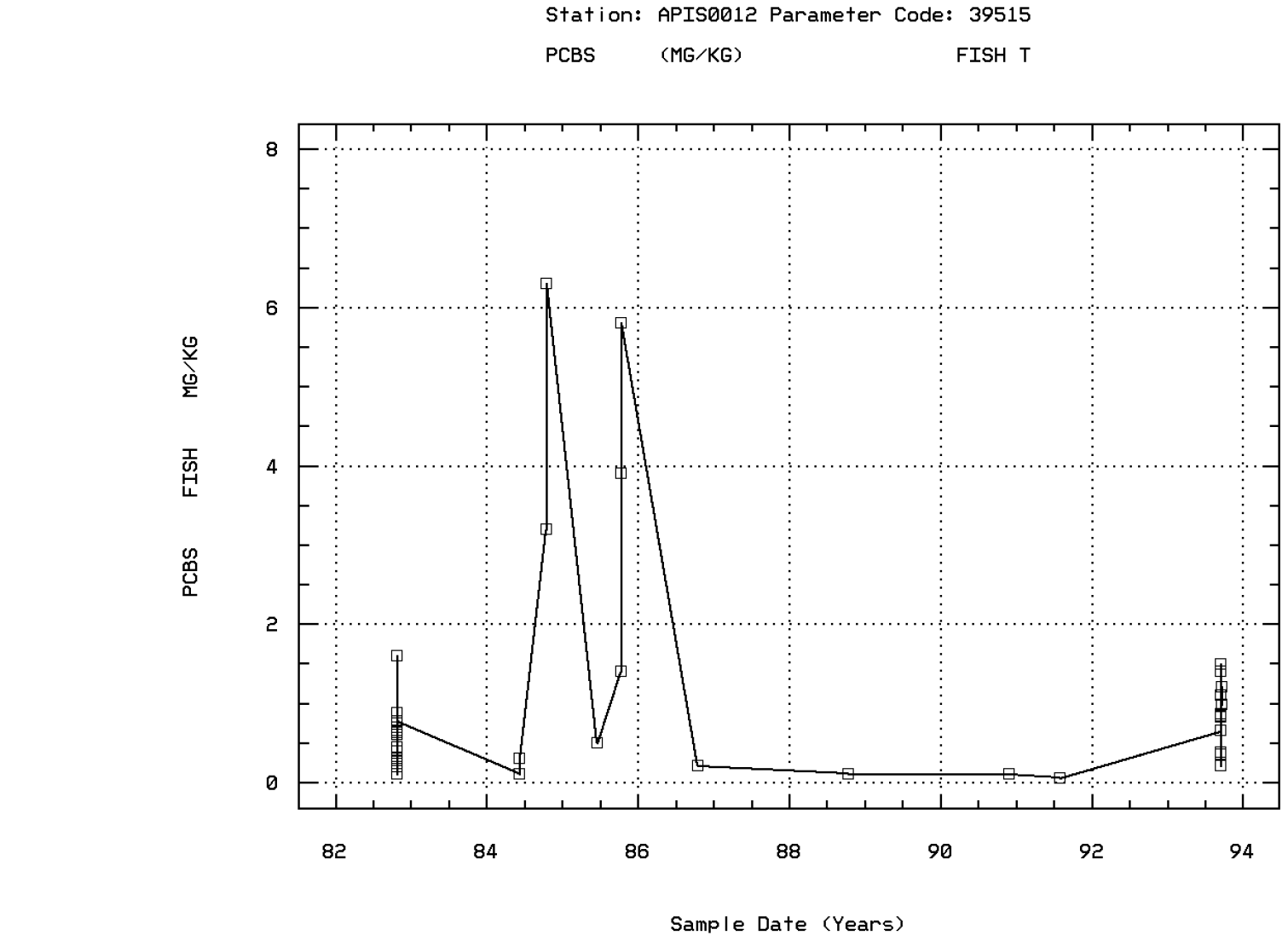
LAKE SUPERIOR 13 GRID 1311



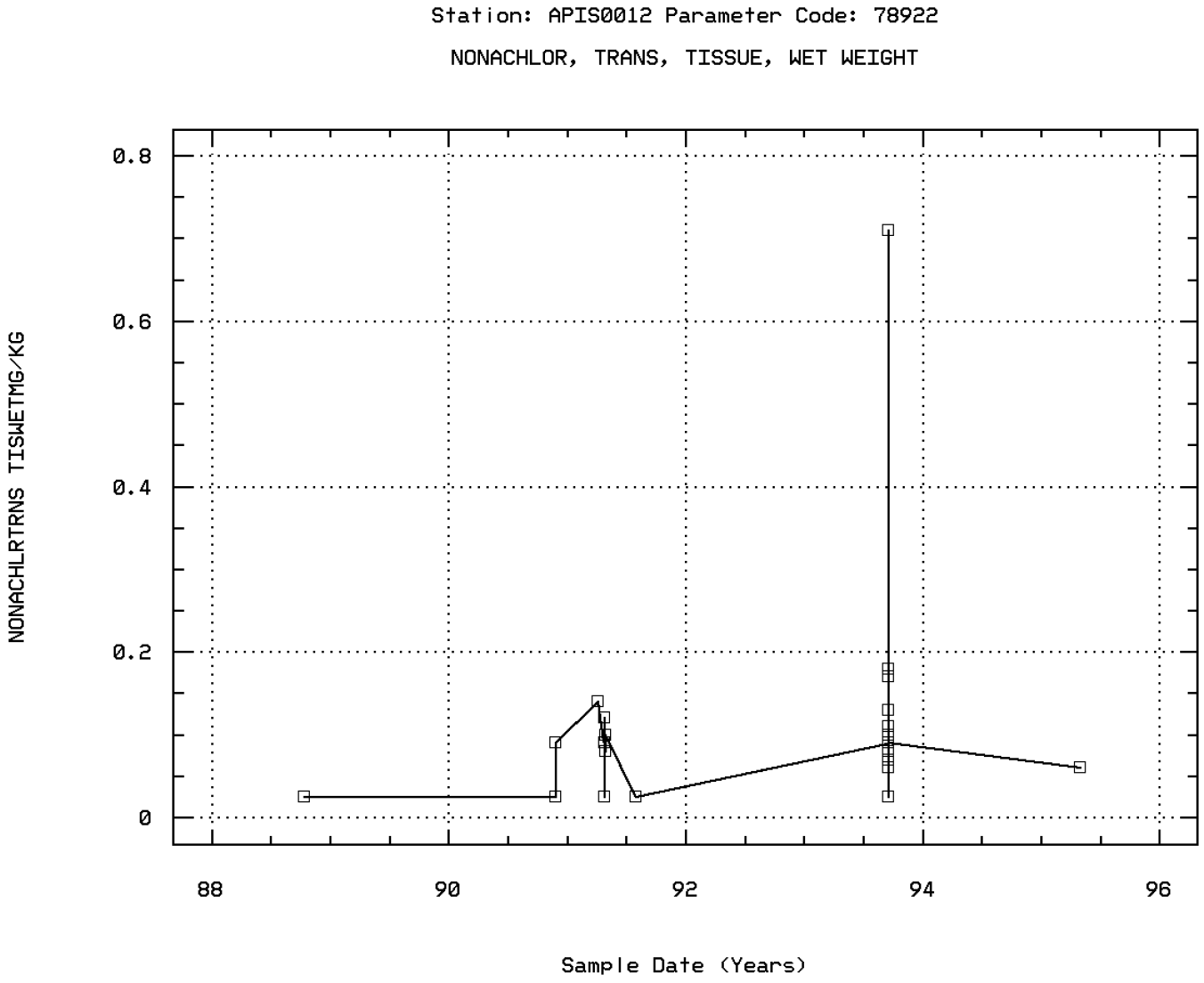
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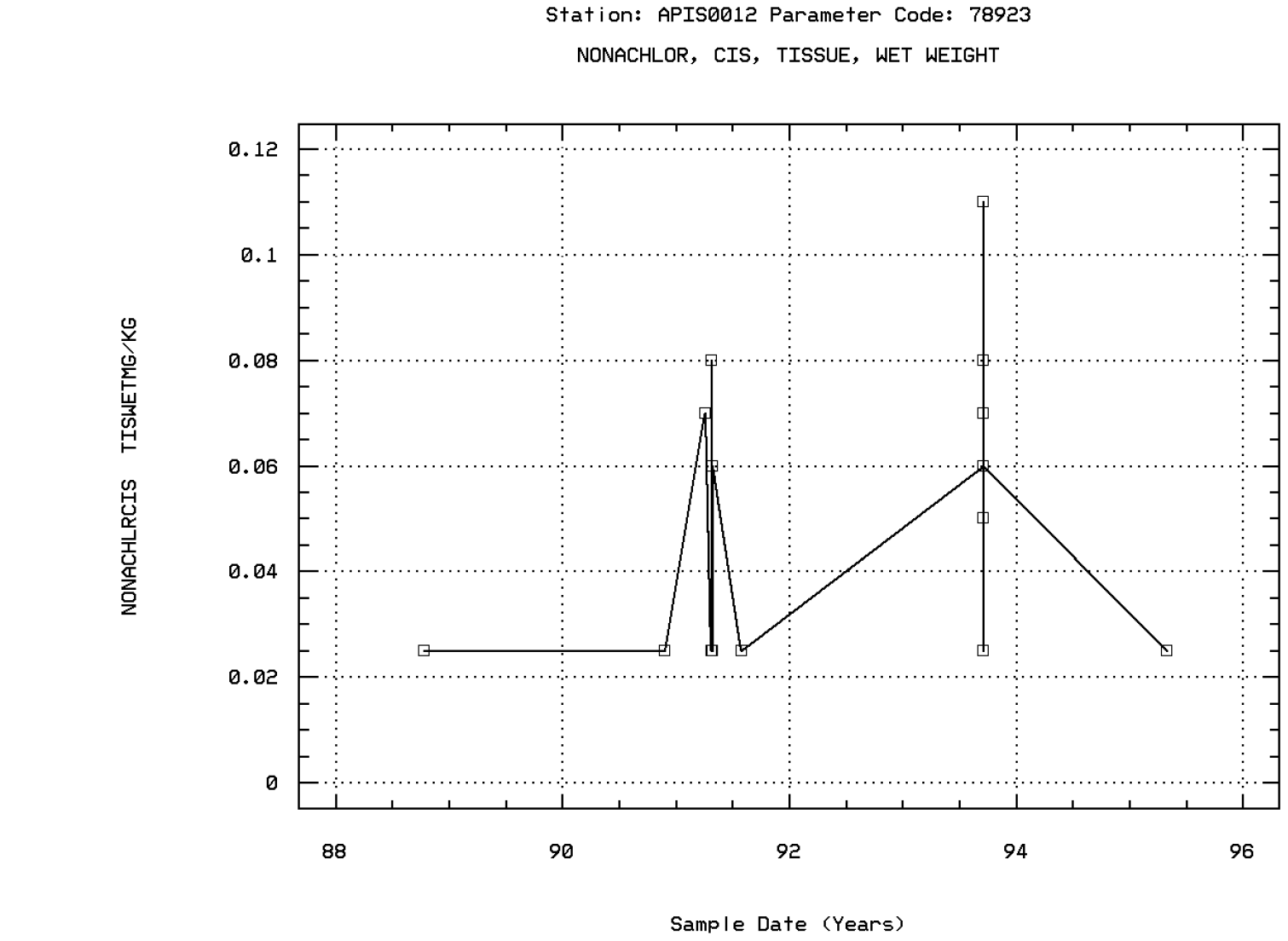
LAKE SUPERIOR 13 GRID 1311



LAKE SUPERIOR 13 GRID 1311



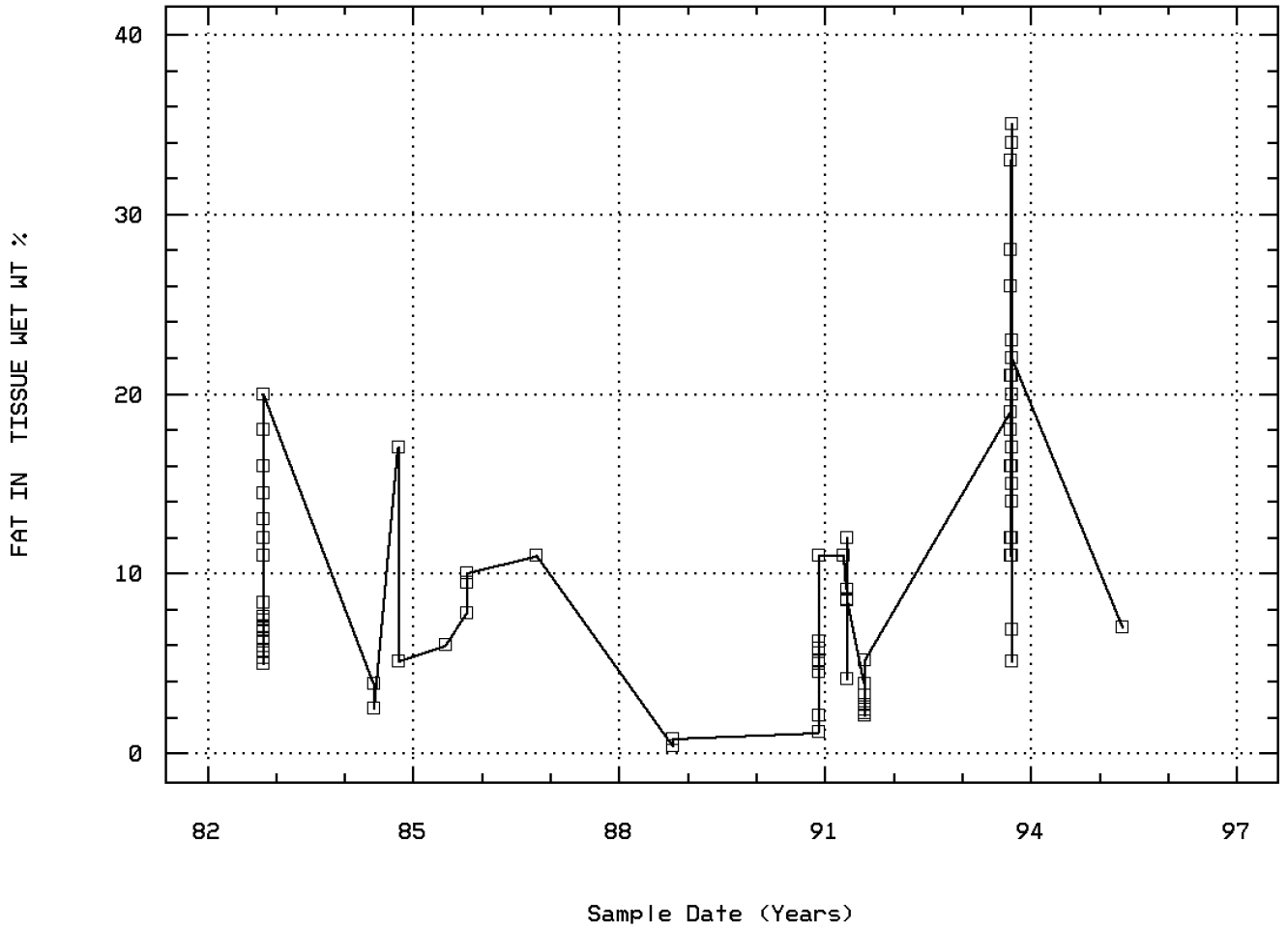
LAKE SUPERIOR 13 GRID 1311



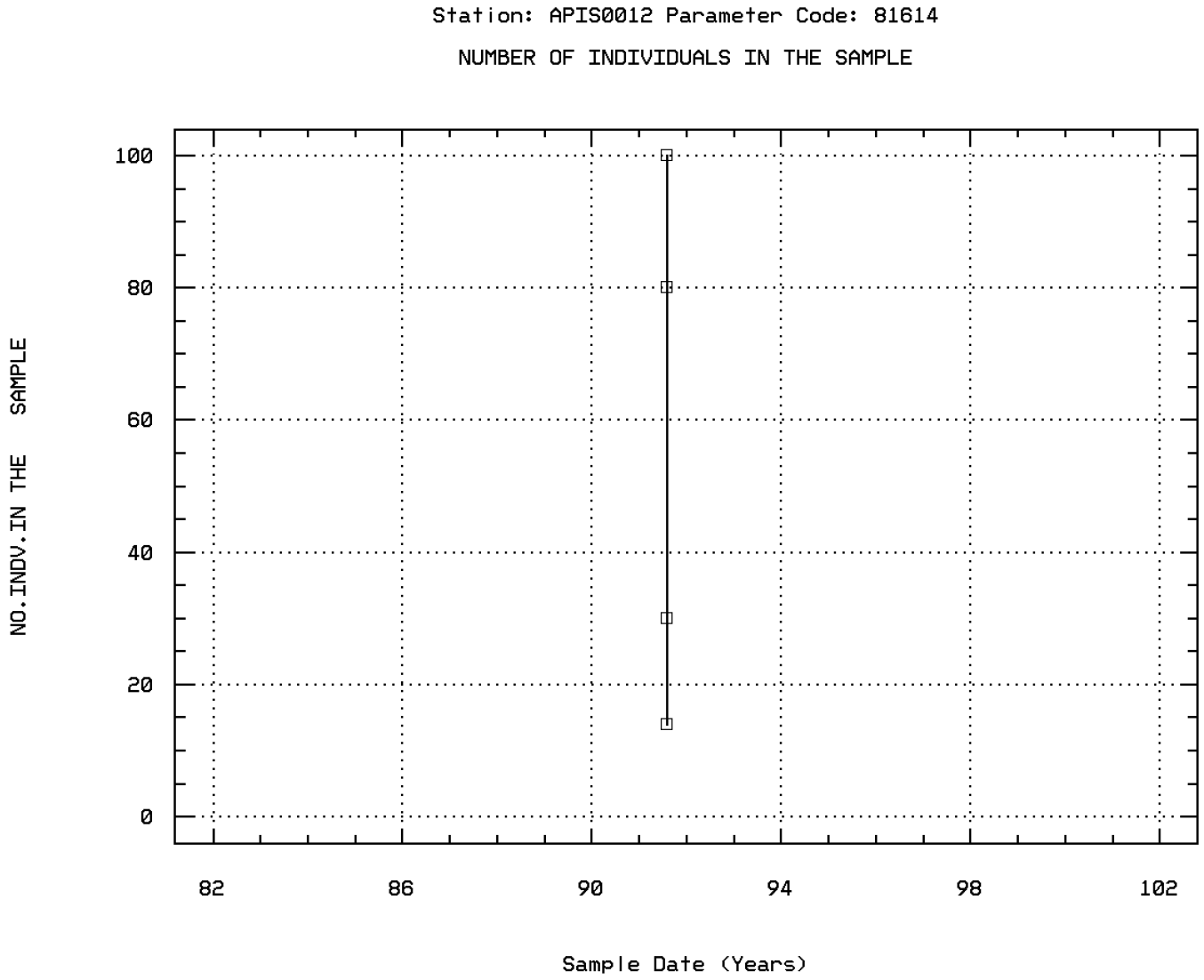
LAKE SUPERIOR 13 GRID 1311

Station: APIS0012 Parameter Code: 78926

FAT, PERCENT, IN TISSUE, WET WEIGHT



LAKE SUPERIOR 13 GRID 1311



LAKE SUPERIOR 13 GRID 1311

Annual Analysis for 1982 - Station APIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/82-04/30/95	20	294.5	294.5	299.	290.	8.684	2.947	290.1	292.	297.	298.9
00023p	SAMPLE WEIGHT IN POUNDS	10/23/82-04/30/95	20	7.72	7.939	9.48	5.29	1.371	1.171	5.511	7.5	9.04	9.436
00024p	SAMPLE LENGTH IN INCHES	10/23/82-04/30/95	20	28.	27.85	31.	24.5	2.792	1.671	24.7	27.	29.	30.8
39063p	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	20 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
39066p	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	20 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
78926p	FAT, PERCENT, IN TISSUE, WET WEIGHT %	10/23/82-04/30/95	20	7.5	9.87	20.	5.	20.401	4.517	5.34	6.5	13.	17.8

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

Annual Analysis for 1984 - Station APIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/82-04/30/95	4	311.5	381.25	611.	291.	23806.917	154.295	**	**	**	**
00023p	SAMPLE WEIGHT IN POUNDS	10/23/82-04/30/95	3	9.92	9.11	15.21	2.2	42.807	6.543	**	**	**	**
00024p	SAMPLE LENGTH IN INCHES	10/23/82-04/30/95	3	30.	28.167	36.9	17.6	95.643	9.78	**	**	**	**
39063p	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	4 ##	0.048	0.048	0.07	0.025	0.001	0.026	**	**	**	**
39066p	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	4 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
78926p	FAT, PERCENT, IN TISSUE, WET WEIGHT %	10/23/82-04/30/95	4	4.5	7.125	17.	2.5	44.469	6.669	**	**	**	**

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

Annual Analysis for 1985 - Station APIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/82-04/30/95	5	293.	398.2	821.	291.	55863.7	236.355	**	**	**	**
00023p	SAMPLE WEIGHT IN POUNDS	10/23/82-04/30/95	5	12.96	10.114	14.66	0.77	31.244	5.59	**	**	**	**
00024p	SAMPLE LENGTH IN INCHES	10/23/82-04/30/95	5	33.5	29.76	35.	16.	61.463	7.84	**	**	**	**
39063p	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	4 ##	0.058	0.06	0.1	0.025	0.002	0.041	**	**	**	**
39066p	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	4 ##	0.025	0.031	0.05	0.025	0.	0.013	**	**	**	**
78926p	FAT, PERCENT, IN TISSUE, WET WEIGHT %	10/23/82-04/30/95	4	8.65	8.325	10.	6.	3.289	1.814	**	**	**	**

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

Annual Analysis for 1986 - Station APIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/82-04/30/95	1	301.	301.	301.	301.	0.	0.	**	**	**	**
00023p	SAMPLE WEIGHT IN POUNDS	10/23/82-04/30/95	1	5.64	5.64	5.64	5.64	0.	0.	**	**	**	**
00024p	SAMPLE LENGTH IN INCHES	10/23/82-04/30/95	1	25.5	25.5	25.5	25.5	0.	0.	**	**	**	**
39063p	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39066p	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
78926p	FAT, PERCENT, IN TISSUE, WET WEIGHT %	10/23/82-04/30/95	1	11.	11.	11.	11.	0.	0.	**	**	**	**

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

Annual Analysis for 1988 - Station APIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/82-04/30/95	4	822.5	822.5	824.	821.	1.667	1.291	**	**	**	**
00023p	SAMPLE WEIGHT IN POUNDS	10/23/82-04/30/95	4	6.36	6.36	7.5	5.22	1.733	1.316	**	**	**	**
00024p	SAMPLE LENGTH IN INCHES	10/23/82-04/30/95	4	29.1	29.1	30.2	28.	1.613	1.27	**	**	**	**

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

Annual Analysis for 1988 - Station APIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39063p	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39066p	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
78926p	FAT, PERCENT, IN TISSUE, WET WEIGHT %	10/23/82-04/30/95	2	0.6	0.6	0.8	0.4	0.08	0.283	**	**	**	**

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

Annual Analysis for 1990 - Station APIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/82-04/30/95	9	5615.	5615.	5619.	5611.	7.5	2.739	5611.	5612.5	5617.5	5619.
00023p	SAMPLE WEIGHT IN POUNDS	10/23/82-04/30/95	9	1.12	1.398	2.8	0.79	0.401	0.634	0.79	0.96	1.74	2.8
00024p	SAMPLE LENGTH IN INCHES	10/23/82-04/30/95	9	17.3	17.4	21.2	14.7	4.182	2.045	14.7	15.75	18.95	21.2
39063p	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	9 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
39066p	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	9 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
78926p	FAT, PERCENT, IN TISSUE, WET WEIGHT %	10/23/82-04/30/95	9	5.1	5.111	11.	1.2	7.636	2.763	1.2	3.3	6.	11.

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

Annual Analysis for 1991 - Station APIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/82-04/30/95	17	792.	1175.765	6541.	11.	3515096.066	1874.859	11.8	291.	796.5	5797.
00023p	SAMPLE WEIGHT IN POUNDS	10/23/82-04/30/95	17	0.01	2.864	12.41	0.	19.852	4.456	0.	0.	6.61	11.338
00024p	SAMPLE LENGTH IN INCHES	10/23/82-04/30/95	17	2.5	11.718	33.2	2.4	169.347	13.013	2.4	2.5	28.1	32.08
39063p	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	13 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
39066p	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	13 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
78926p	FAT, PERCENT, IN TISSUE, WET WEIGHT %	10/23/82-04/30/95	13	4.1	5.769	12.	2.1	12.744	3.57	2.14	2.55	8.85	11.6

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

Annual Analysis for 1993 - Station APIS0012

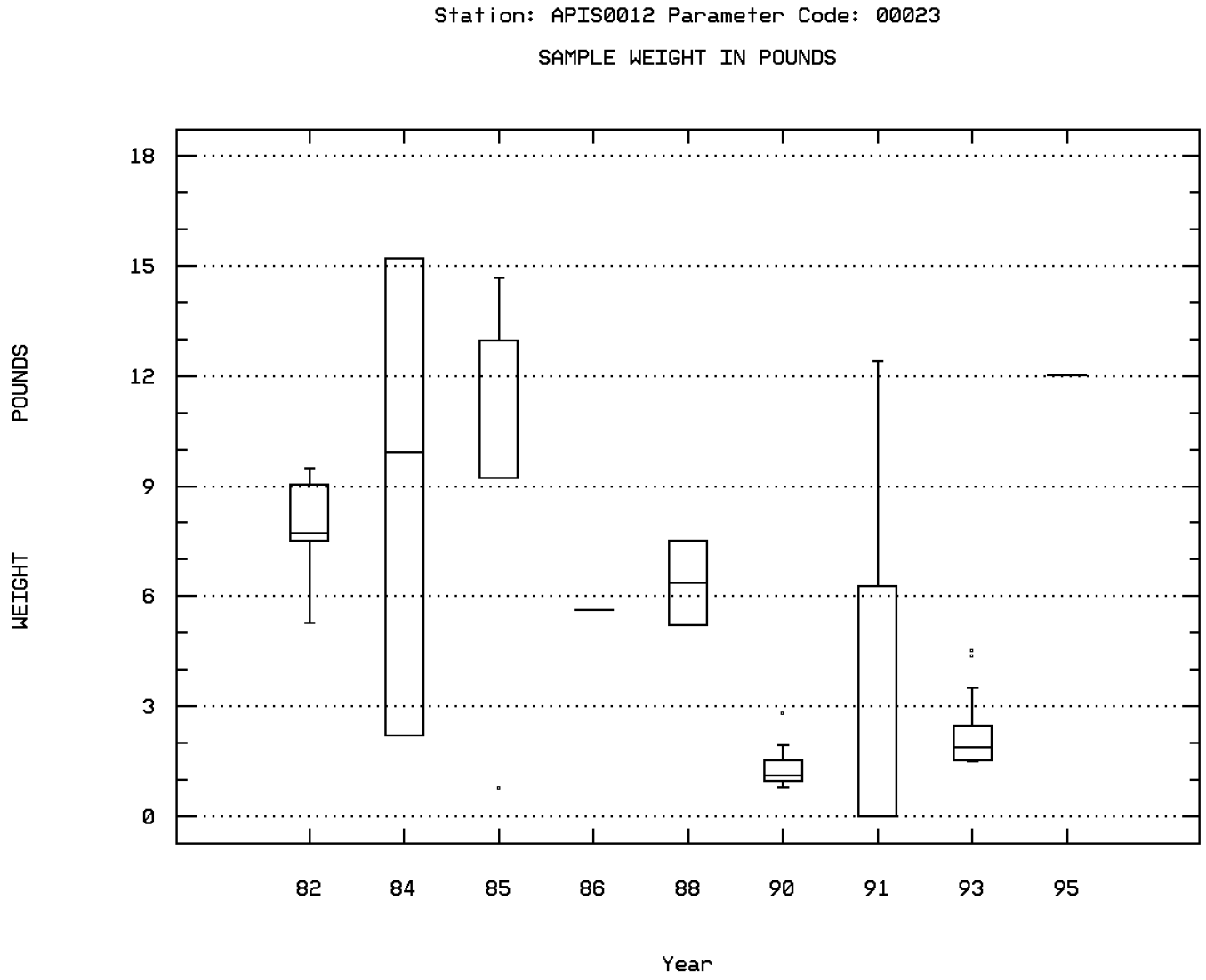
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/82-04/30/95	41	5614.	5614.317	5619.	5610.	7.722	2.779	5611.	5612.	5617.	5618.
00023p	SAMPLE WEIGHT IN POUNDS	10/23/82-04/30/95	41	1.9	2.19	4.5	1.5	0.578	0.76	1.5	1.54	2.49	3.342
00024p	SAMPLE LENGTH IN INCHES	10/23/82-04/30/95	41	18.5	18.985	25.5	16.9	3.768	1.941	16.94	17.4	19.7	21.96
39063p	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	25 ##	0.025	0.035	0.15	0.025	0.001	0.027	0.025	0.025	0.025	0.06
39066p	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	25 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
78926p	FAT, PERCENT, IN TISSUE, WET WEIGHT %	10/23/82-04/30/95	25	19.	19.24	35.	5.1	62.258	7.89	9.36	13.	23.	33.4

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

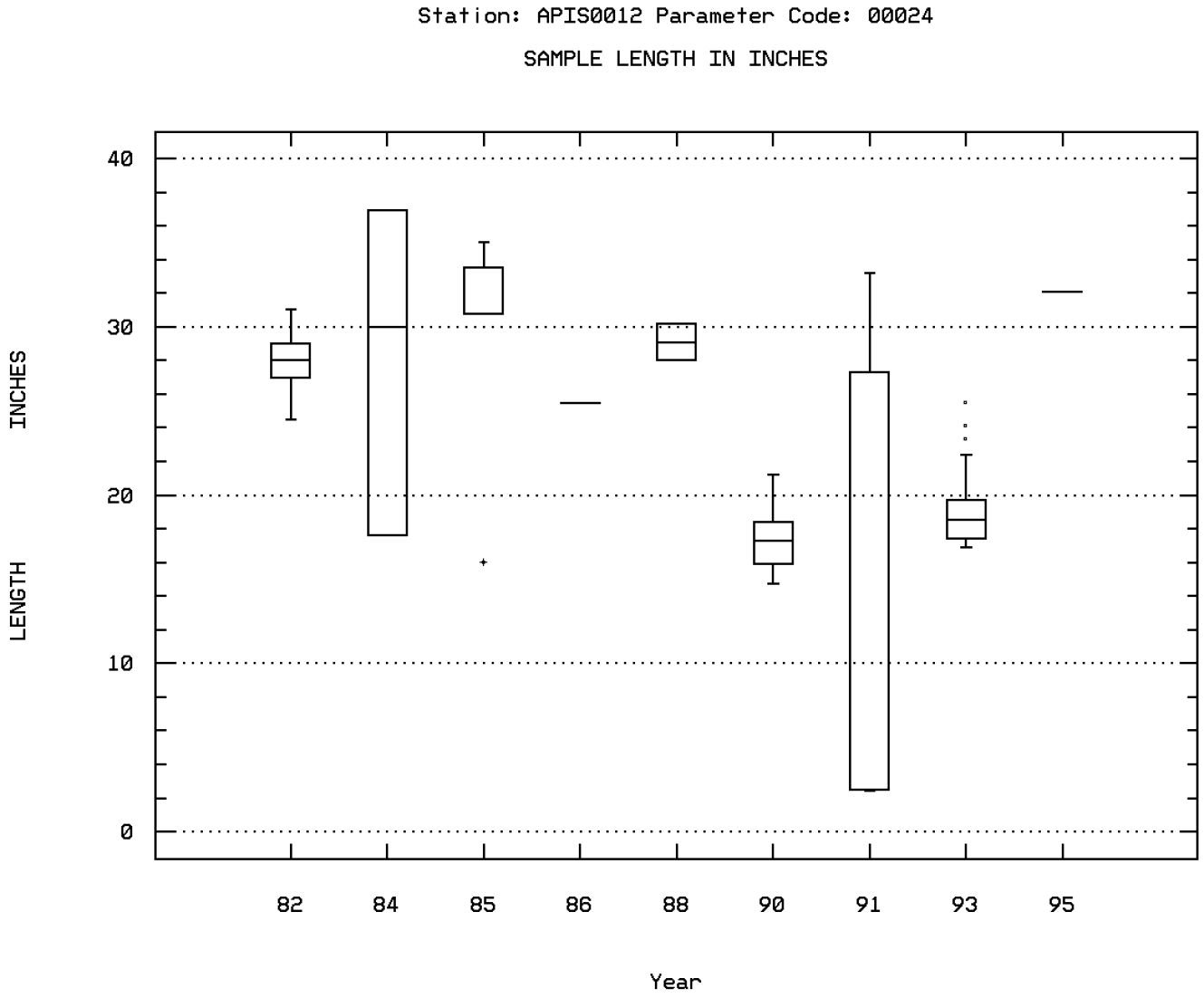
Annual Analysis for 1995 - Station APIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/82-04/30/95	1	291.	291.	291.	291.	0.	0.	**	**	**	**
00023p	SAMPLE WEIGHT IN POUNDS	10/23/82-04/30/95	1	12.02	12.02	12.02	12.02	0.	0.	**	**	**	**
00024p	SAMPLE LENGTH IN INCHES	10/23/82-04/30/95	1	32.1	32.1	32.1	32.1	0.	0.	**	**	**	**
39063p	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39066p	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
78926p	FAT, PERCENT, IN TISSUE, WET WEIGHT %	10/23/82-04/30/95	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 box-and-whisker plot



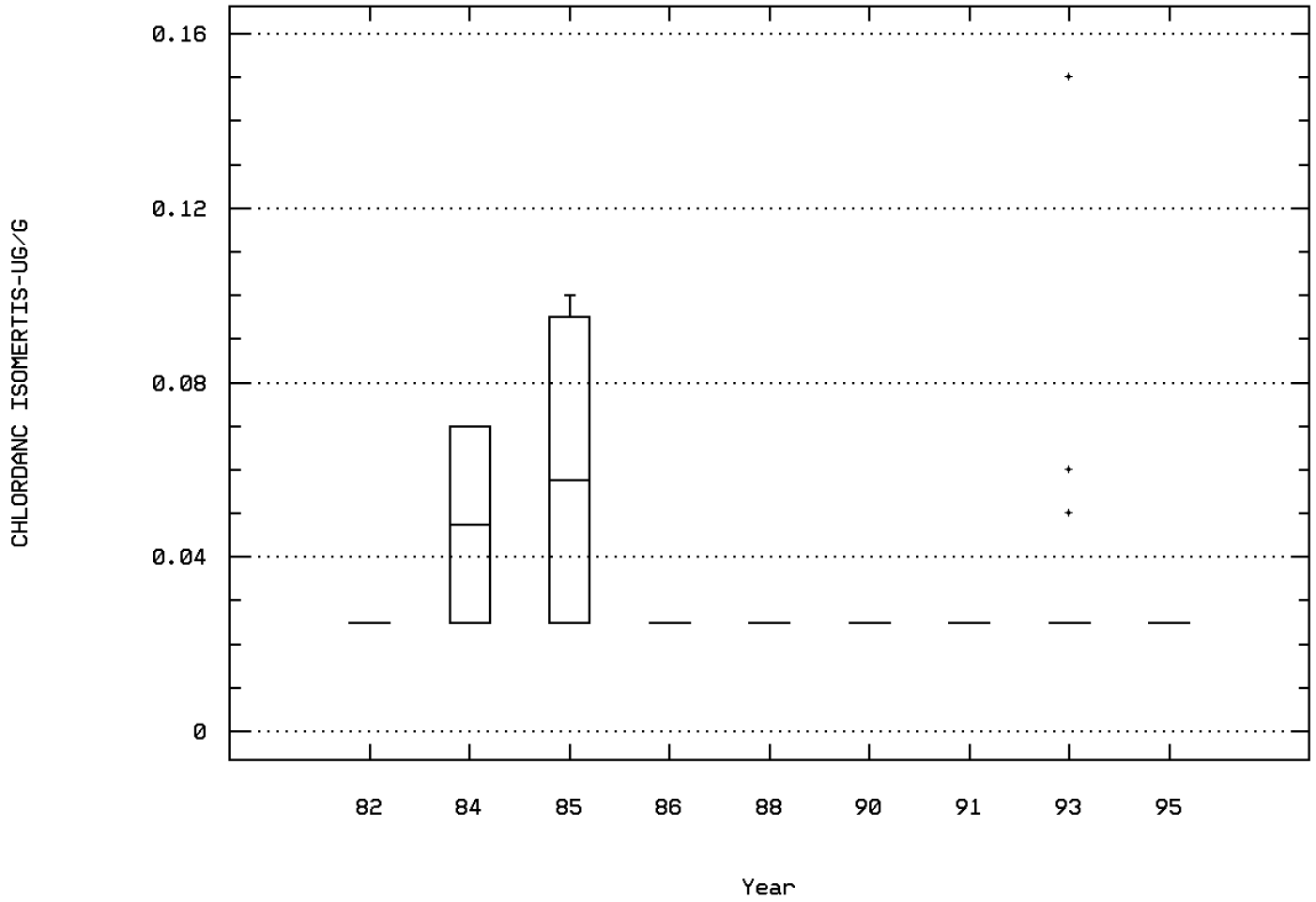
LAKE SUPERIOR 13 GRID 1311



LAKE SUPERIOR 13 GRID 1311

Station: APIS0012 Parameter Code: 39063

CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG

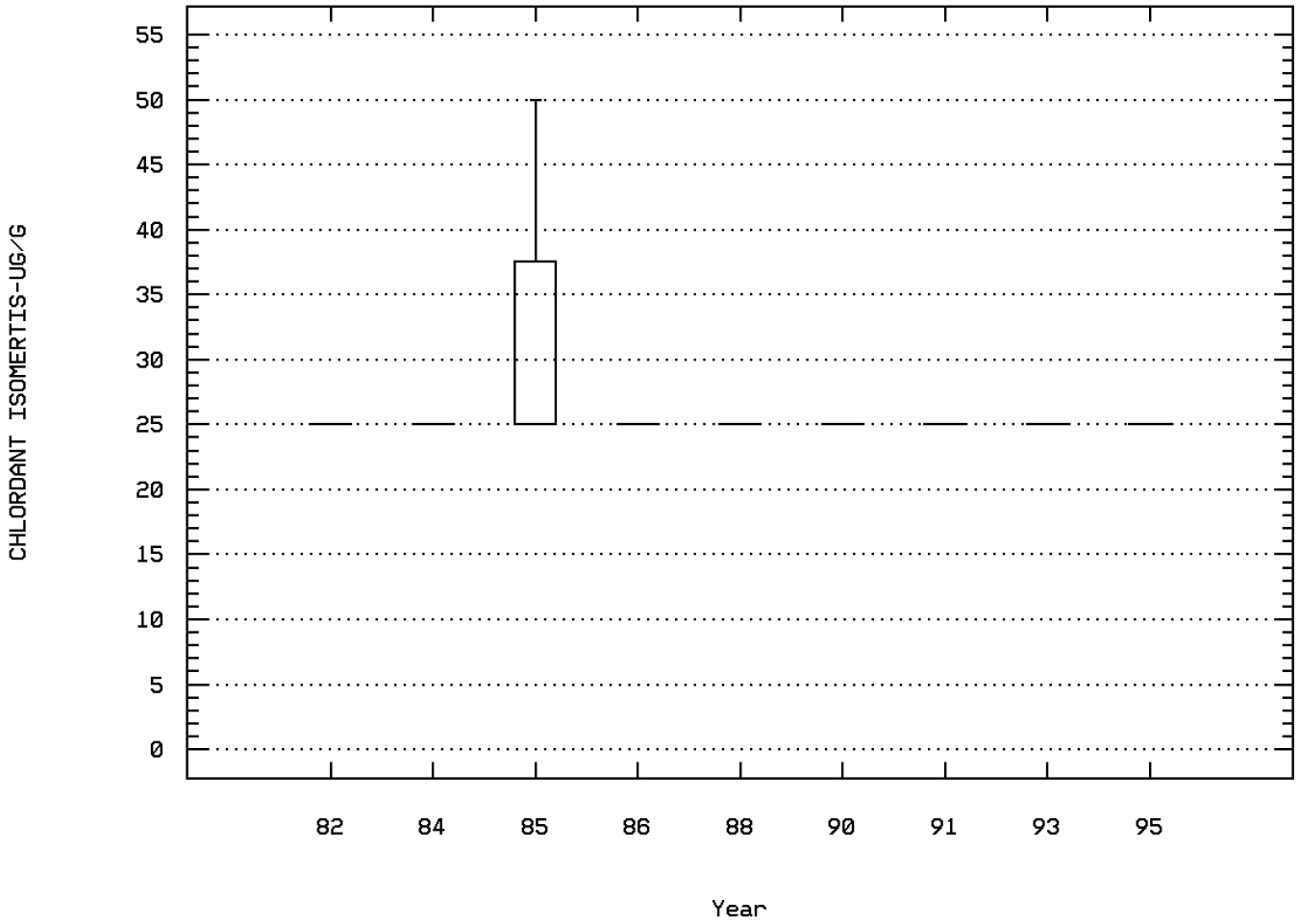


LAKE SUPERIOR 13 GRID 1311

Station: APIS0012 Parameter Code: 39066

CHLORDANE-TRANS ISOMER,TISSUE WET WGT (

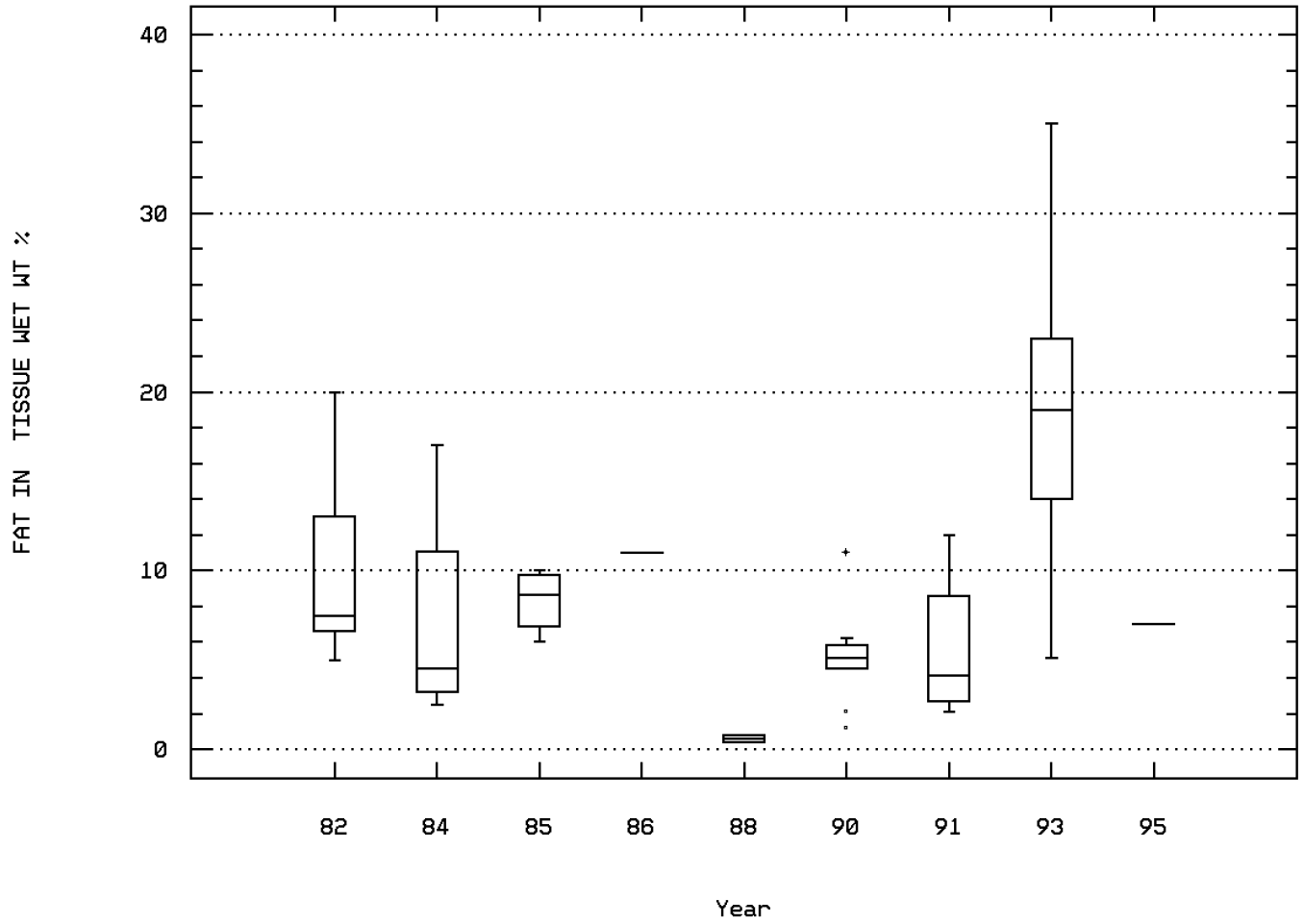
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LAKE SUPERIOR 13 GRID 1311

Station: APIS0012 Parameter Code: 78926

FAT, PERCENT, IN TISSUE, WET WEIGHT



LAKE SUPERIOR 13 GRID 1311

Seasonal Analysis for Season #1: 7/15 to 11/30 - Station APIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/82-04/30/95	92	5611.	3313.87	6541.	11.	6798420.95	2607.378	292.	297.	5615.	5618.
39063p	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	69 ##	0.025	0.032	0.15	0.025	0.	0.021	0.025	0.025	0.025	0.06
39066p	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	69 ##	0.025	0.025	0.05	0.025	0.	0.003	0.025	0.025	0.025	0.025
39302p	P P DDT IN TISSUE WET WGT (UG/G)	10/23/82-04/30/95	57 ##	0.025	0.058	0.7	0.	0.015	0.122	0.	0.025	0.033	0.096
39307p	O P DDT IN TISSUE WET WGT (UG/G)	10/23/82-04/30/95	57 ##	0.025	0.034	0.13	0.025	0.	0.021	0.025	0.025	0.025	0.06
39312p	P P DDD IN TISSUE WET WGT (UG/G)	10/23/82-04/30/95	57 ##	0.025	0.041	0.49	0.02	0.004	0.065	0.025	0.025	0.025	0.07
39322p	P,P'-DDE IN TISSUE WET WGT MG/KG	10/23/82-04/30/95	57	0.19	0.296	2.3	0.025	0.172	0.414	0.025	0.085	0.33	0.506
39325p	O,P DDD IN TISSUE WET WGT (UG/G)	10/23/82-04/30/95	57 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
39329p	O,P DDE IN TISSUE, WET WGT(UG/G)	10/23/82-04/30/95	57 ##	0.025	0.027	0.1	0.025	0.	0.011	0.025	0.025	0.025	0.025
39404p	DIELDRIN IN TISSUE WET WGT (UG/G)	10/23/82-04/30/95	60	0.05	0.05	0.18	0.01	0.001	0.034	0.01	0.02	0.078	0.09
39515p	PCBS (MG/KG) FISH TISSUE MG/KG	10/23/82-09/18/93	50	0.42	0.856	6.3	0.05	1.696	1.302	0.05	0.1	0.865	1.59
78926p	FAT, PERCENT, IN TISSUE, WET WEIGHT %	10/23/82-04/30/95	69	10.	11.706	35.	0.4	68.951	8.304	2.4	5.15	17.	23.

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

Seasonal Analysis for Season #3: 3/01 to 4/14 - Station APIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/82-04/30/95	1	291.	291.	291.	291.	0.	0.	**	**	**	**
39063p	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39066p	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39302p	P P DDT IN TISSUE WET WGT (UG/G)	10/23/82-04/30/95	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
39307p	O P DDT IN TISSUE WET WGT (UG/G)	10/23/82-04/30/95	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39312p	P P DDD IN TISSUE WET WGT (UG/G)	10/23/82-04/30/95	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39322p	P,P'-DDE IN TISSUE WET WGT MG/KG	10/23/82-04/30/95	1	0.32	0.32	0.32	0.32	0.	0.	**	**	**	**
39325p	O,P DDD IN TISSUE WET WGT (UG/G)	10/23/82-04/30/95	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39329p	O,P DDE IN TISSUE, WET WGT(UG/G)	10/23/82-04/30/95	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39404p	DIELDRIN IN TISSUE WET WGT (UG/G)	10/23/82-04/30/95	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
78926p	FAT, PERCENT, IN TISSUE, WET WEIGHT %	10/23/82-04/30/95	1	11.	11.	11.	11.	0.	0.	**	**	**	**

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

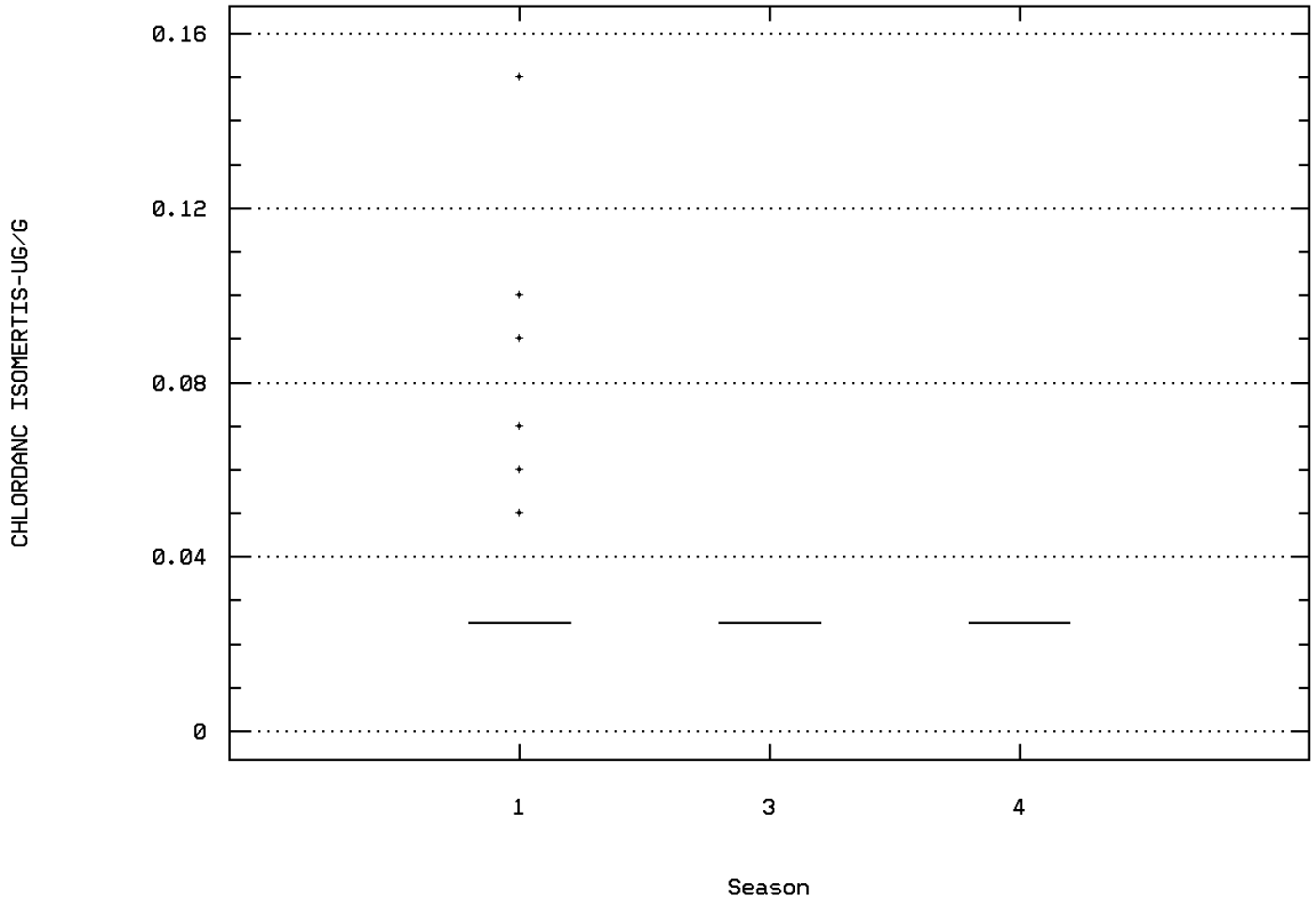
Seasonal Analysis for Season #4: 4/15 to 7/14 - Station APIS0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/23/82-04/30/95	9	292.	981.222	5611.	291.	3049955.194	1746.412	291.	291.	716.	5611.
39063p	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	9 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
39066p	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/23/82-04/30/95	9 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
39302p	P P DDT IN TISSUE WET WGT (UG/G)	10/23/82-04/30/95	9 ##	0.025	0.041	0.09	0.025	0.001	0.025	0.025	0.025	0.065	0.09
39307p	O P DDT IN TISSUE WET WGT (UG/G)	10/23/82-04/30/95	9 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
39312p	P P DDD IN TISSUE WET WGT (UG/G)	10/23/82-04/30/95	9 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
39322p	P,P'-DDE IN TISSUE WET WGT MG/KG	10/23/82-04/30/95	9	0.16	0.221	0.7	0.1	0.035	0.188	0.1	0.115	0.245	0.7
39325p	O,P DDD IN TISSUE WET WGT (UG/G)	10/23/82-04/30/95	9 ##	0.025	0.028	0.05	0.025	0.	0.008	0.025	0.025	0.025	0.05
39329p	O,P DDE IN TISSUE, WET WGT(UG/G)	10/23/82-04/30/95	9 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
39404p	DIELDRIN IN TISSUE WET WGT (UG/G)	10/23/82-04/30/95	9	0.03	0.034	0.07	0.02	0.	0.016	0.02	0.025	0.04	0.07
39515p	PCBS (MG/KG) FISH TISSUE MG/KG	10/23/82-09/18/93	3	0.3	0.3	0.5	0.1	0.04	0.2	**	**	**	**
78926p	FAT, PERCENT, IN TISSUE, WET WEIGHT %	10/23/82-04/30/95	9	7.	6.856	12.	2.5	9.163	3.027	2.5	4.	8.85	12.

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

Station: APIS0012 Parameter Code: 39063

CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG

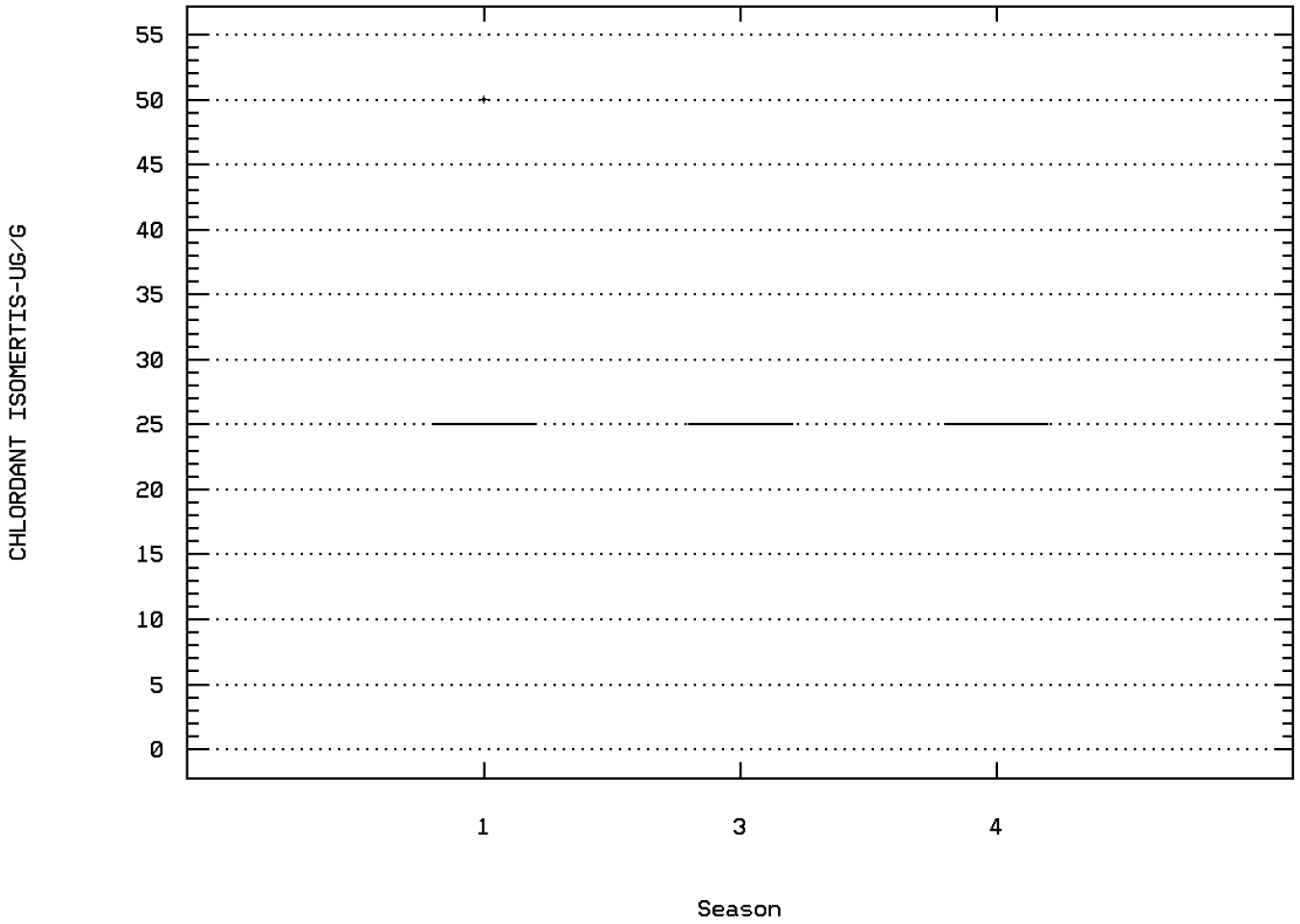


LAKE SUPERIOR 13 GRID 1311

Station: APIS0012 Parameter Code: 39066

CHLORDANE-TRANS ISOMER,TISSUE WET WGT (

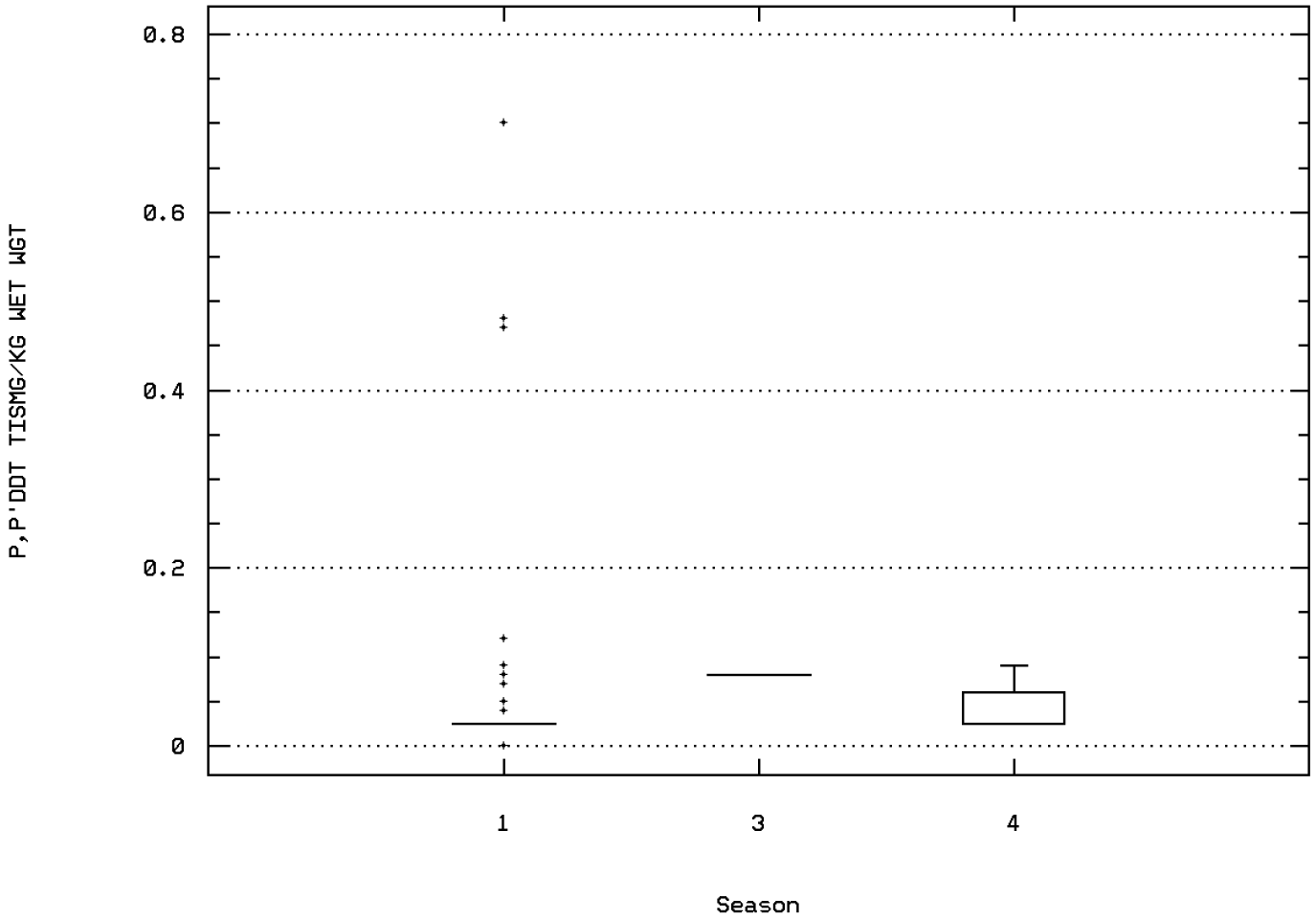
(X 0.001)



LAKE SUPERIOR 13 GRID 1311

Station: APIS0012 Parameter Code: 39302

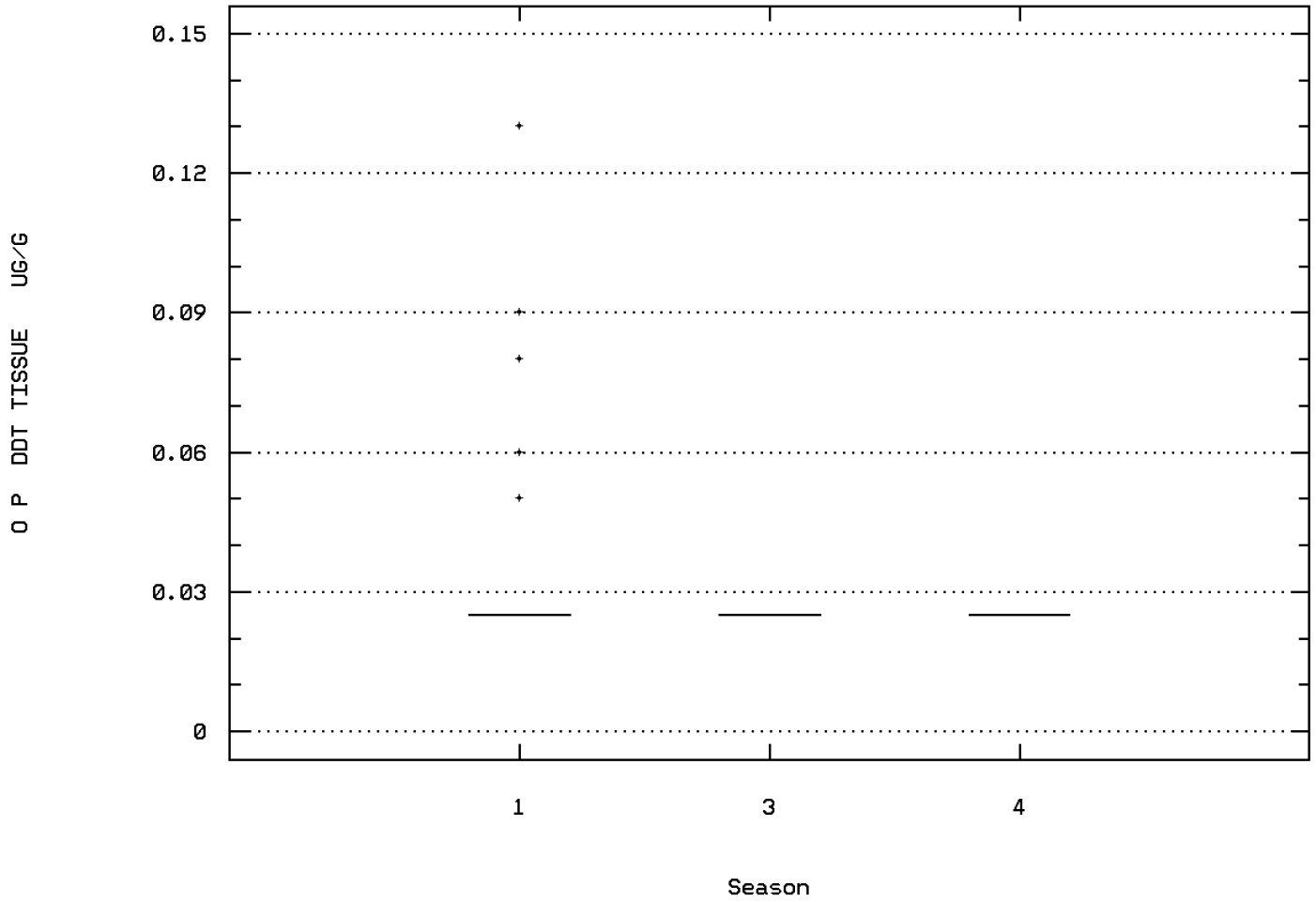
P P DDT IN TISSUE WET WGT (UG/G)



LAKE SUPERIOR 13 GRID 1311

Station: APIS0012 Parameter Code: 39307

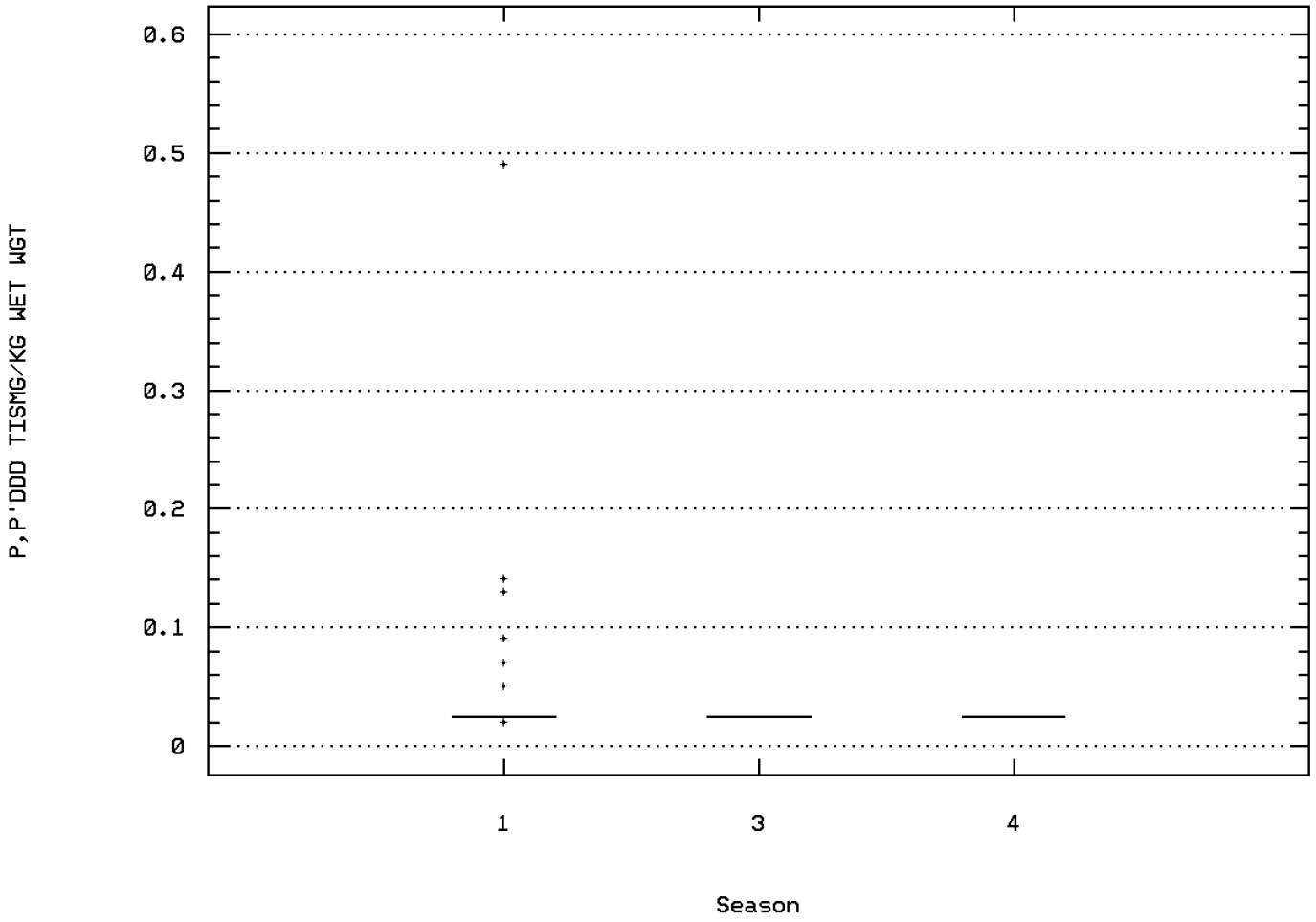
O P DDT IN TISSUE WET WGT (UG/G)



LAKE SUPERIOR 13 GRID 1311

Station: APIS0012 Parameter Code: 39312

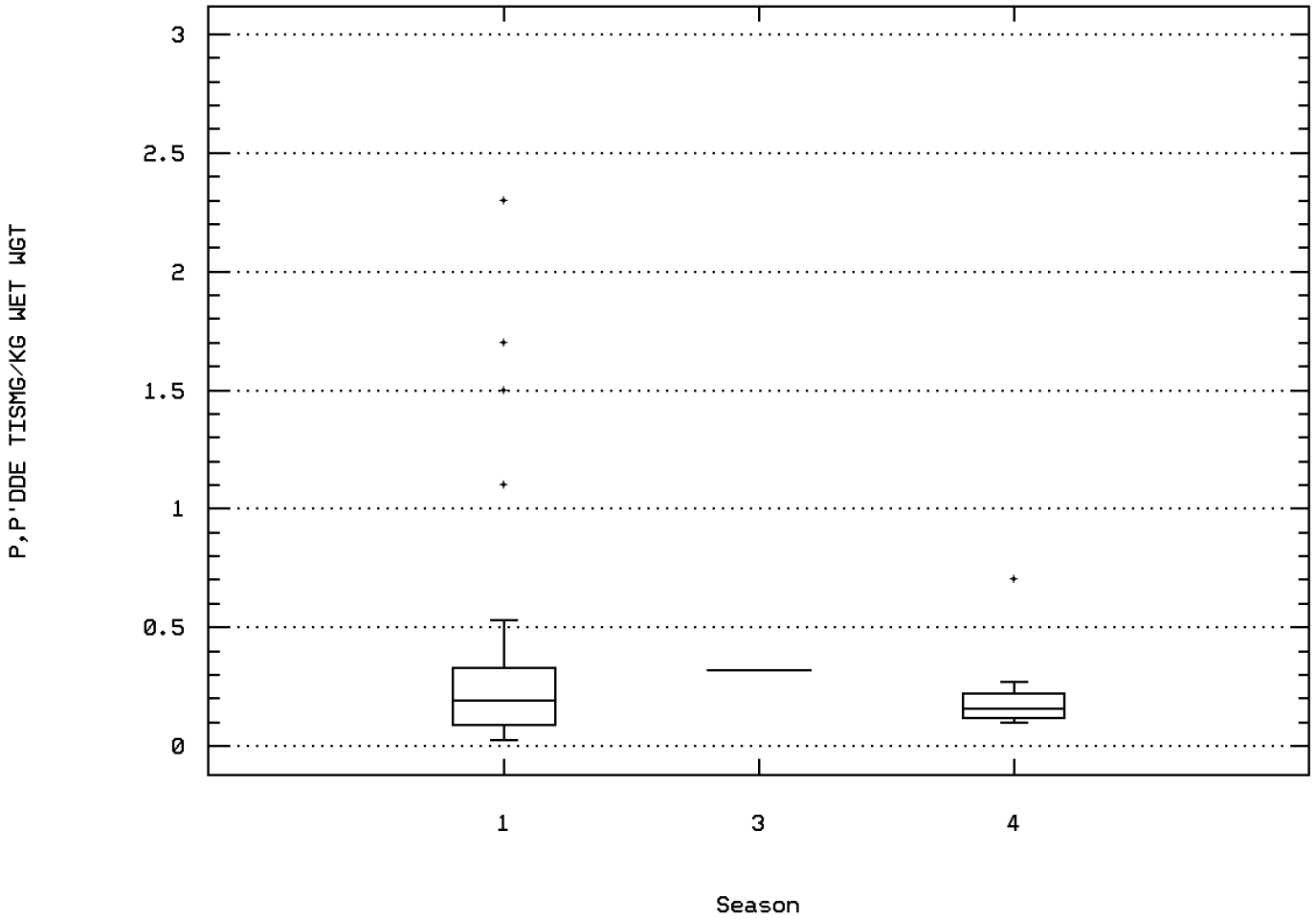
P P DDD IN TISSUE WET WGT (UG/G)



LAKE SUPERIOR 13 GRID 1311

Station: APIS0012 Parameter Code: 39322

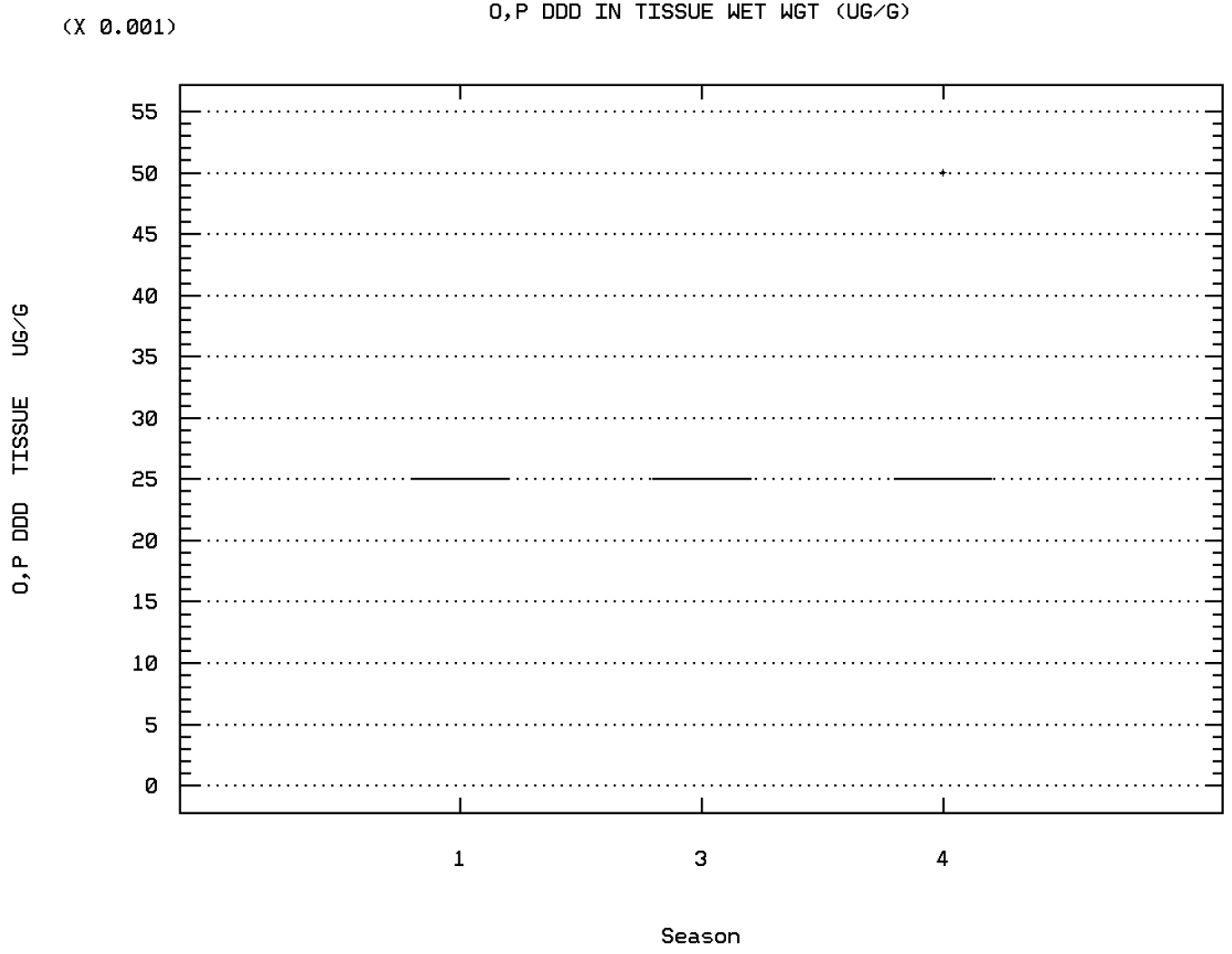
P,P'-DDE IN TISSUE WET WGT MG/KG



LAKE SUPERIOR 13 GRID 1311

Station: APIS0012 Parameter Code: 39325

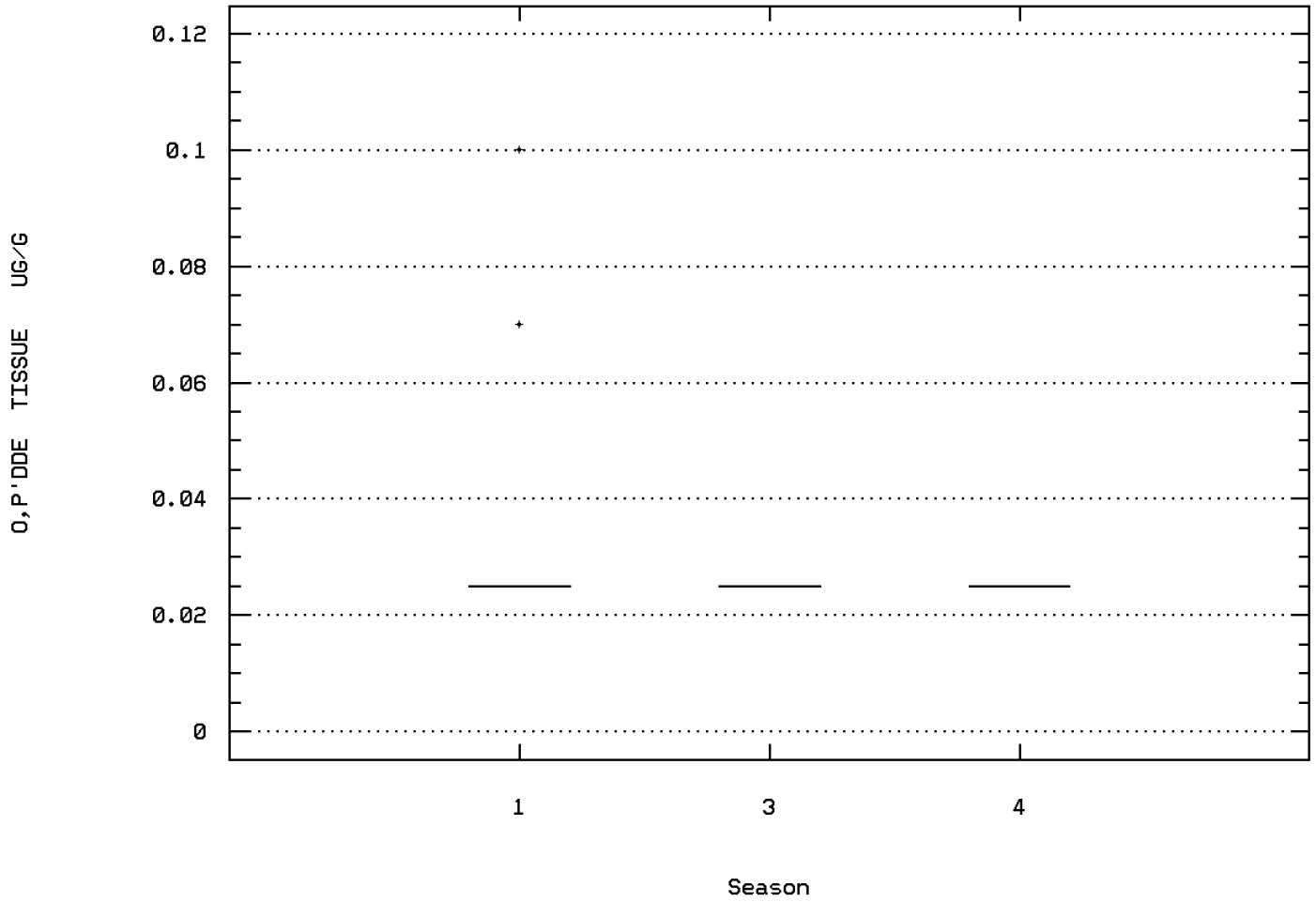
O,P DDD IN TISSUE WET WGT (UG/G)



LAKE SUPERIOR 13 GRID 1311

Station: APIS0012 Parameter Code: 39329

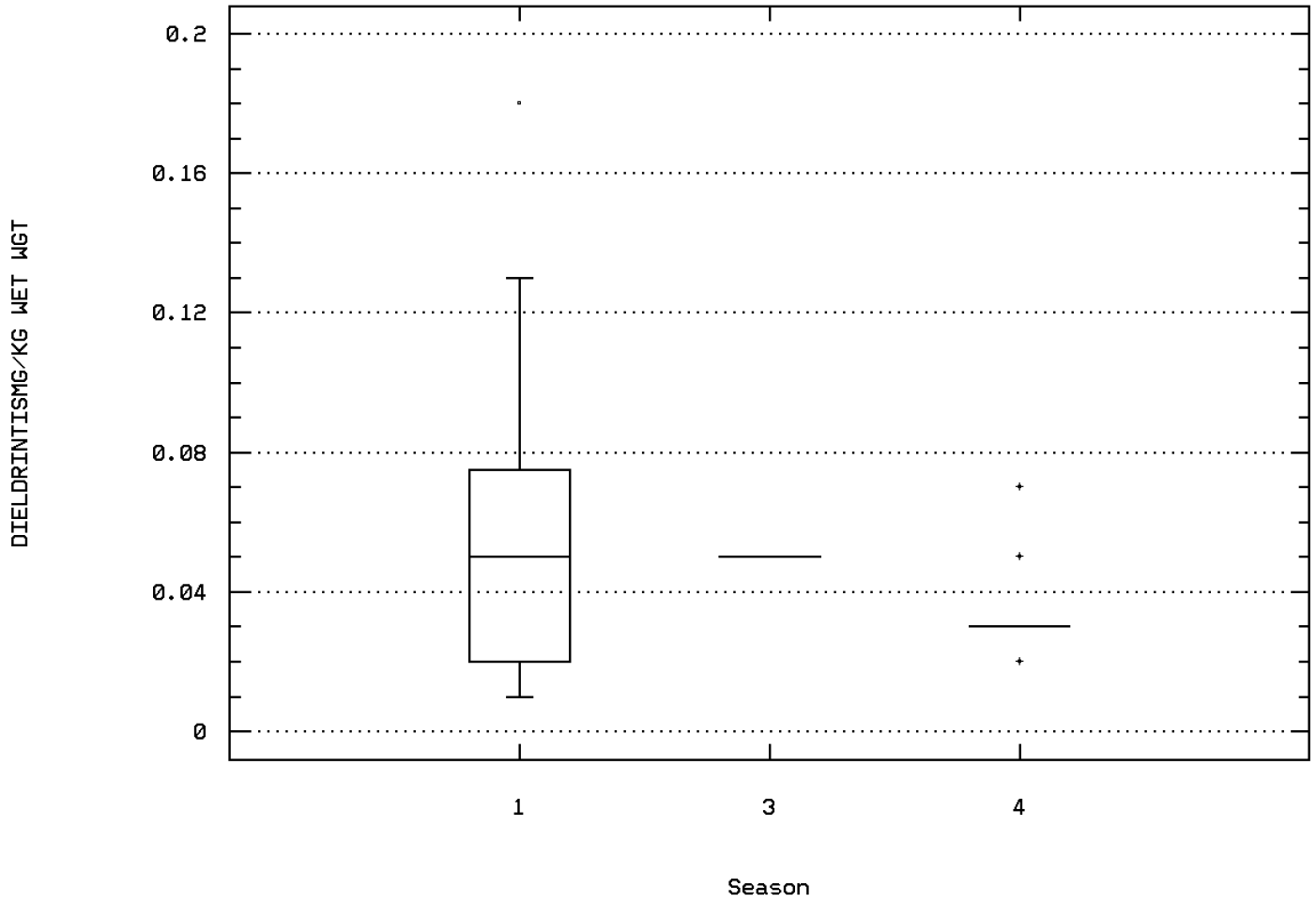
O,P DDE IN TISSUE, WET WGT(UG/G)



LAKE SUPERIOR 13 GRID 1311

Station: APIS0012 Parameter Code: 39404

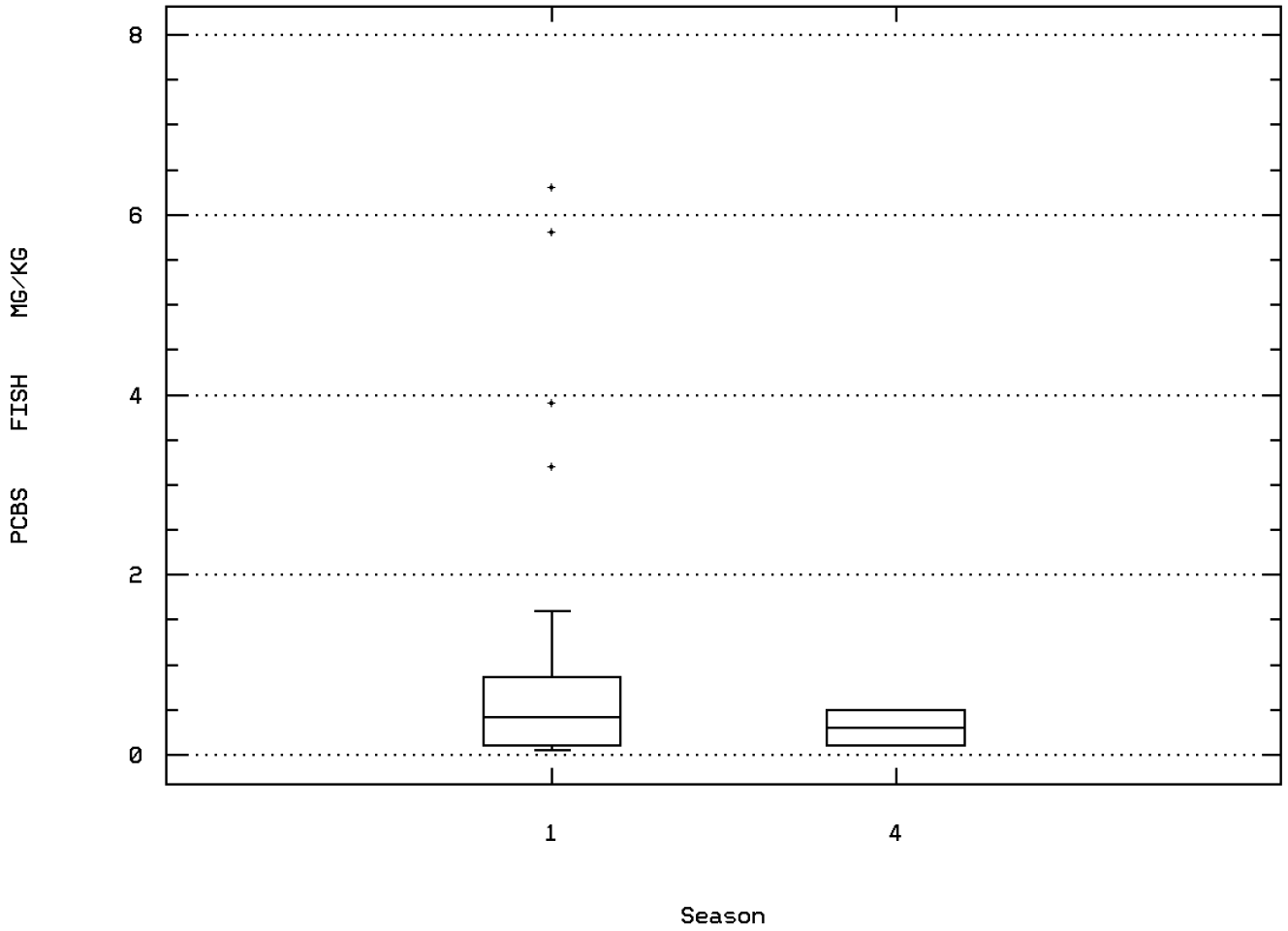
DIELDRIN IN TISSUE WET WGT (UG/G)



LAKE SUPERIOR 13 GRID 1311

Station: APIS0012 Parameter Code: 39515

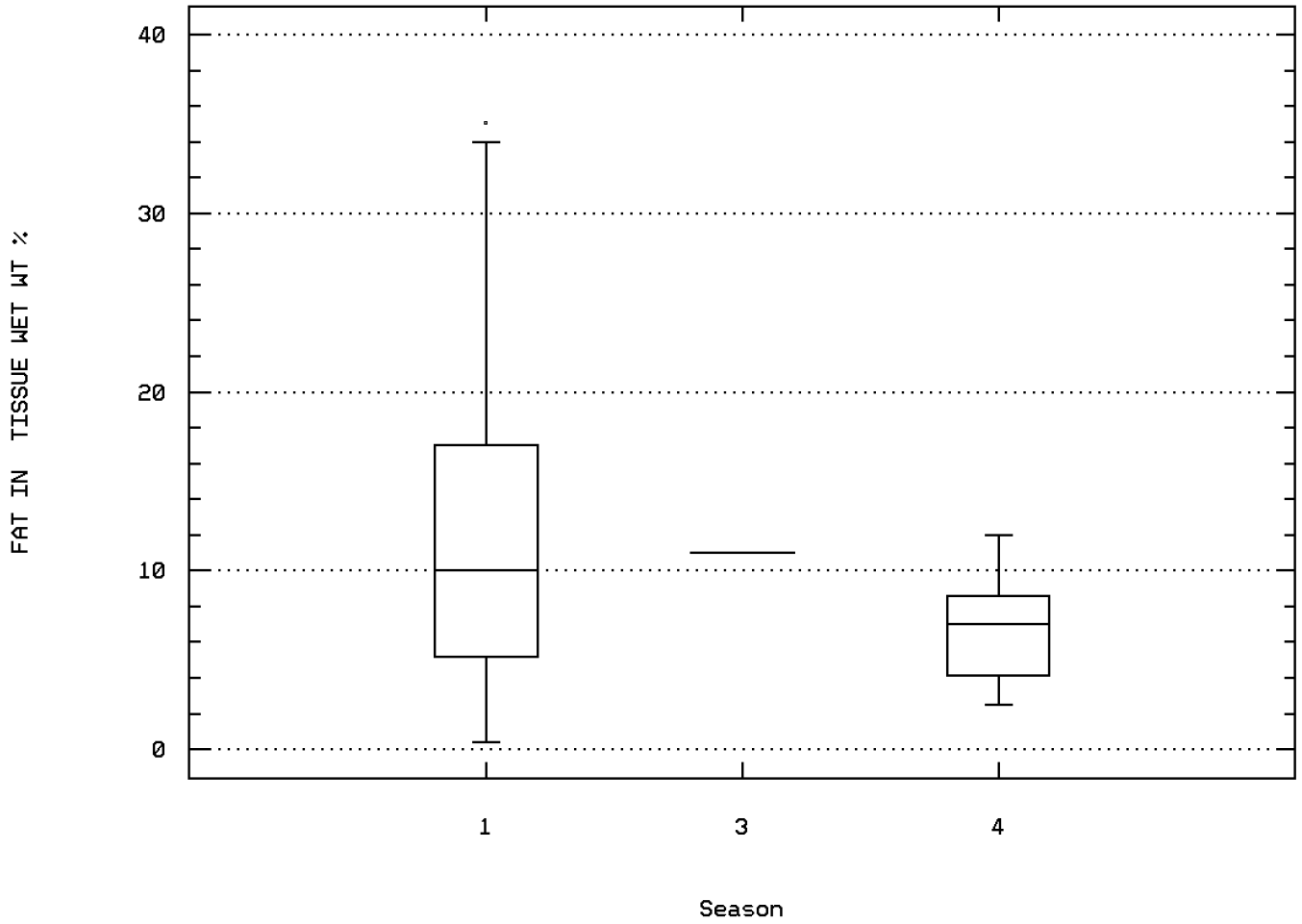
PCBS (MG/KG) FISH T



LAKE SUPERIOR 13 GRID 1311

Station: APIS0012 Parameter Code: 78926

FAT, PERCENT, IN TISSUE, WET WEIGHT



LAKE SUPERIOR 13 GRID 1311

Station Inventory for Station: APIS0013

NPS Station ID: APIS0013 LAT/LON: 47.006753/ -90.459115 Agency: 11NPSWRD Date Created: 04/04/98
Location: N BASIN OF OUTER ISLAND LAGOON IN LAKE SUPERIOR FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/FWTLND STORET Station ID(s): APIS_UW_OUTLAGN
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE OUTER ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON THE NORTH BASIN OF OUTER ISLAND LAGOON. SAMPLES FOR THIS SITE WERE COLLECTED JUNE 10 AND AUGUST 15 OF 1986 AND JUNE 24 AND SEPTEMBER 22 OF 1987. SAMPLES WERE ANALYZED FOR TEMPERATURE; DISSOLVED OXYGEN; CONDUCTIVITY; PH; AND ALKALINITY. THE RESULTS ARE IN "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE 1986-1988" BY MARY BALCER AND DENNIS MCCAULEY WITH THE CENTER FOR LAKE SUPERIOR ENVIRONMENTAL STUDIES; UNIVERSITY OF WISCONSIN-SUPERIOR (MARCH 1989). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/10/86-09/22/87	10	3.	3.1	8.	0.	9.656	3.107	0.	0.	6.25	7.9
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/10/86-09/22/87	10	25.	22.58	26.2	17.	16.606	4.075	17.05	18.1	26.	26.18
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/10/86-09/22/87	10	19.	115.8	1000.	15.	96525.289	310.685	15.	15.	20.	902.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/10/86-06/24/87	6	6.1	6.05	7.8	3.7	2.419	1.555	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	06/10/86-09/22/87	10	5.65	5.79	6.6	5.	0.305	0.553	5.01	5.475	6.425	6.59
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/10/86-09/22/87	10	5.647	5.523	6.6	5.	0.385	0.62	5.01	5.475	6.425	6.59
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/10/86-09/22/87	10	2.254	3.002	10.	0.251	10.966	3.311	0.258	0.378	3.87	9.794
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/10/86-09/22/87	6	4.5	4.833	6.	4.	0.967	0.983	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0013

				Total	Exceed	Prop.	7/15-11/30			12/01-2/29			3/01-4/14			4/15-7/14		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	6	1	0.17										6	1	0.17
00406	PH, FIELD	Fresh Chronic	9.	10	0	0.00	4	0	0.00							6	0	0.00
		Other-Lo Lim.	6.5	10	9	0.90	4	3	0.75							6	6	1.00

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

Station Inventory for Station: APIS0014

NPS Station ID: APIS0014 LAT/LON: 47.006670/ -90.459171 Agency: 112WRD Date Created: 01/21/84
Location: N LOBE OF LAGOON AT SW SIDE OF OUTER IS., WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 470024090273301
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0014

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/28/83-08/31/83	2	25.5	25.5	26.	25.	0.5	0.707	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/28/83-08/31/83	2	22.	22.	25.	19.	18.	4.243	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/28/83-07/28/83	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/28/83-08/31/83	2	6.5	6.5	6.8	6.2	0.18	0.424	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/28/83-08/31/83	2	6.404	6.404	6.8	6.2	0.199	0.446	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/28/83-08/31/83	2	0.395	0.395	0.631	0.158	0.112	0.334	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/28/83-07/28/83	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/28/83-07/28/83	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/28/83-07/28/83	1	0.501	0.501	0.501	0.501	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/31/83-08/31/83	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/83-08/31/83	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/31/83-08/31/83	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/31/83-08/31/83	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/31/83-08/31/83	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/28/83-07/28/83	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/28/83-07/28/83	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/28/83-07/28/83	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/28/83-07/28/83	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/28/83-07/28/83	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/28/83-07/28/83	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/28/83-07/28/83	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/28/83-07/28/83	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/28/83-07/28/83	1	41.	41.	41.	41.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0014

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Fresh Chronic	9.	2	0	0.00	2	0	0.00									
		Other-Lo Lim.	6.5	2	1	0.50	2	1	0.50									
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									

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

EPA Water Quality Criteria Analysis for Station: APIS0014

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0015

NPS Station ID: APIS0015 LAT/LON: 47.004726/ -90.459642 Agency: 11NPSWRD Date Created: 04/04/98
Location: S BASIN OF OUTER ISLAND LAGOON IN LAKE SUPERIOR FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): APIS_UW_OUTLAGS
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE OUTER ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON THE SOUTH BASIN OF OUTER ISLAND LAGOON. SAMPLES FOR THIS SITE WERE COLLECTED JUNE 10 AND AUGUST 15 OF 1986 AND JUNE 24 AND SEPTEMBER 22 OF 1987. SAMPLES WERE ANALYZED FOR TEMPERATURE; DISSOLVED OXYGEN; CONDUCTIVITY; PH; AND ALKALINITY. THE RESULTS ARE IN "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE 1986-1988" BY MARY BALCER AND DENNIS MCCAULEY WITH THE CENTER FOR LAKE SUPERIOR ENVIRONMENTAL STUDIES; UNIVERSITY OF WISCONSIN-SUPERIOR (MARCH 1989). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0015

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/10/86-09/22/87	12	2.	2.	5.	0.	3.273	1.809	0.	0.	3.75	4.7
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/10/86-09/22/87	12	21.9	21.775	26.2	17.5	16.615	4.076	17.5	17.75	25.925	26.14
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/10/86-09/22/87	12	20.	252.833	970.	10.	183603.788	428.49	10.6	12.75	717.5	970.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/10/86-06/24/87	6	6.4	6.683	7.8	5.6	0.774	0.88	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	06/10/86-09/22/87	10	5.2	5.55	6.7	4.9	0.432	0.657	4.91	5.	6.125	6.68
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/10/86-09/22/87	10	5.2	5.263	6.7	4.9	0.523	0.723	4.91	5.	6.125	6.68
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/10/86-09/22/87	10	6.31	5.462	12.589	0.2	20.362	4.512	0.211	0.829	10.	12.33
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/15/86-06/24/87	5	6.	5.6	6.	5.	0.3	0.548	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0015

			Total	Exceed	Prop.	7/15-11/30			12/01-2/29			3/01-4/14			4/15-7/14		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	6	0	0.00										6	0	0.00
00406	PH, FIELD	Fresh Chronic	9.	10	0	0.00	4	0	0.00							6	0	0.00
		Other-Lo Lim.	6.5	10	9	0.90	4	3	0.75							6	6	1.00

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

Station Inventory for Station: APIS0016

NPS Station ID: APIS0016 LAT/LON: 47.003476/ -90.460643 Agency: 11NPSWRD Date Created: 03/21/98
Location: LAGOON ON SOUTHWEST PART OF OUTER ISLAND FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/FWTLND STORET Station ID(s): APIS_OUTER_LAG
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE OUTER ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON A LAGOON ON THE SOUTHWEST PART OF OUTER ISLAND. SAMPLES FOR THIS SITE WERE COLLECTED MONTHLY OVER THE SUMMER OF 1996. SAMPLES WERE ANALYZED FOR PHYSICAL PARAMETERS AND NUTRIENT CONCENTRATIONS. THE RESULTS ARE IN "LAKE SUPERIOR FOOD WEB - APOSTLE ISLANDS ONRW" BY LAKE SUPERIOR ECOSYSTEM RESEARCH CENTER; MICHIGAN TECHNOLOGY UNIVERSITY (JUNE 1997). THE DATA WERE RECEIVED IN DIGITAL FORMAT FROM NATURAL RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/11/96-08/20/96	27	3.	2.211	4.	0.	1.503	1.226	0.24	1.	3.	4.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/11/96-08/20/96	18	23.2	22.333	24.7	19.1	4.499	2.121	19.19	19.85	24.35	24.7
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	06/11/96-08/20/96	18	77.	71.667	77.	60.	45.294	6.73	60.9	63.75	77.	77.
00078	TRANSPARENCY, SECCHI DISC (METERS)	06/11/96-07/10/96	2	0.99	0.99	1.22	0.76	0.106	0.325	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/11/96-08/20/96	18	20.	19.778	20.	19.	0.183	0.428	19.	19.75	20.	20.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/11/96-08/20/96	18	7.9	7.833	8.2	7.1	0.06	0.245	7.37	7.8	7.9	8.11
00406	PH, FIELD, STANDARD UNITS SU	06/11/96-08/20/96	18	5.95	5.959	6.51	5.44	0.068	0.261	5.557	5.853	6.09	6.366
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/11/96-08/20/96	18	5.95	5.885	6.51	5.44	0.074	0.272	5.557	5.852	6.09	6.366
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/11/96-08/20/96	18	1.123	1.303	3.631	0.309	0.695	0.834	0.433	0.813	1.432	2.785
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/11/96-08/20/96	9	0.006	0.006	0.02	0.	0.	0.006	0.	0.002	0.007	0.02
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/11/96-08/20/96	9 ##	0.005	0.007	0.01	0.005	0.	0.003	0.005	0.005	0.01	0.01
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/11/96-08/20/96	9 ##	0.005	0.103	0.3	0.005	0.022	0.148	0.005	0.005	0.3	0.3
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/10/96-08/20/96	2	0.75	0.75	0.8	0.7	0.005	0.071	**	**	**	**
46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/11/96-08/20/96	18	337.5	341.667	368.	317.	204.235	14.291	324.2	330.5	356.25	362.6
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/11/96-08/20/96	18	13.	12.722	13.	12.	0.212	0.461	12.	12.	13.	13.
70971	LIGHT, ATTENUATION COEFFICIENT (ALPHA/M)	06/11/96-08/20/96	2	3.06	3.06	3.1	3.02	0.003	0.057	**	**	**	**
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	06/11/96-08/20/96	9 ##	0.005	0.008	0.03	0.005	0.	0.008	0.005	0.005	0.005	0.03
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/11/96-08/20/96	18	7.6	13.772	28.5	7.	84.512	9.193	7.	7.175	27.35	28.23
82127	WIND SPEED KNOTS	06/11/96-08/20/96	18	0.	3.278	9.	0.	14.918	3.862	0.	0.	8.	8.1

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

EPA Water Quality Criteria Analysis for Station: APIS0016

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	18	0	0.00	10	0	0.00							8	0	0.00
00406	PH, FIELD	Fresh Chronic	9.	18	0	0.00	10	0	0.00							8	0	0.00
		Other-Lo Lim.	6.5	18	17	0.94	10	10	1.00							8	7	0.88
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	9	0	0.00	3	0	0.00							6	0	0.00
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	18	0	0.00	10	0	0.00							8	0	0.00

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

Station Inventory for Station: APIS0017

NPS Station ID: APIS0017
Location: OPEN LAKE STATION
Station Type: /TYPA/AMBNT/LAKE
RMI-Indexes:
RMI-Miles:
HUC: 04020300
Major Basin:
Minor Basin:
RF1 Index: 04020300
RF3 Index: 04010301001007.02
Description:

LAT/LON: 47.100281/ -90.461393
Depth of Water: 78
Elevation: 0
RF1 Mile Point: 0.000
RF3 Mile Point: 10.66

Agency: AIJCCCIW
FIPS State/County: 00996 CANADA/
STORET Station ID(s): C89SU185
Within Park Boundary: No
Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 13.80
Distance from RF3: 1.27

Date Created: 12/17/94
On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: APIS0017

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/07/89-05/07/89	4	34.5	33.75	66.	0.	1388.25	37.259	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/07/89-05/07/89	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/07/89-05/07/89	1	13.7	13.7	13.7	13.7	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/07/89-05/07/89	1	100.	100.	100.	100.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/07/89-05/07/89	1	7.86	7.86	7.86	7.86	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/07/89-05/07/89	1	7.86	7.86	7.86	7.86	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/07/89-05/07/89	1	0.014	0.014	0.014	0.014	0.	0.	**	**	**	**
00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/07/89-05/07/89	1	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/07/89-05/07/89	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/07/89-05/07/89	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/07/89-05/07/89	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/07/89-05/07/89	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/07/89-05/07/89	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/07/89-05/07/89	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/07/89-05/07/89	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/07/89-05/07/89	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/07/89-05/07/89	1	3.2	3.2	3.2	3.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/07/89-05/07/89	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/07/89-05/07/89	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/07/89-05/07/89	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/07/89-05/07/89	1	41.	41.	41.	41.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0017

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00										1	0	0.00
00400	PH	Fresh Chronic	9.	1	0	0.00										1	0	0.00
		Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00										1	0	0.00
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00										1	0	0.00
		Drinking Water	250.	1	0	0.00										1	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: APIS0018

NPS Station ID: APIS0018 LAT/LON: 47.002781/ -90.461670 Agency: 112WRD Date Created: 03/31/84
Location: S LOBE OF LAGOON AT SW SIDE OF OUTER IS., WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 470010090274201
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/28/83-07/28/83	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/28/83-07/28/83	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/28/83-07/28/83	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/28/83-07/28/83	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/28/83-07/28/83	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/28/83-07/28/83	1	1.585	1.585	1.585	1.585	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/28/83-07/28/83	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/28/83-07/28/83	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/28/83-07/28/83	1	0.794	0.794	0.794	0.794	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/28/83-07/28/83	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/28/83-07/28/83	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/28/83-07/28/83	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/28/83-07/28/83	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/28/83-07/28/83	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/28/83-07/28/83	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/28/83-07/28/83	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/28/83-07/28/83	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/28/83-07/28/83	1	36.	36.	36.	36.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0018

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0019

NPS Station ID: APIS0019
LAT/LON: 47.099448/ -90.461670
Agency: AIJCCCIW
Date Created: 12/17/94
Location: OPEN LAKE STATION
FIPS State/County: 00996 CANADA/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): C90SU185
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 75
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/06/90-09/07/90	11	36.	35.545	69.	0.	985.673	31.395	0.	3.	66.	68.4
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/06/90-09/07/90	2	8.5	8.5	14.2	2.8	64.98	8.061	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/06/90-05/06/90	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	05/06/90-05/06/90	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/06/90-09/07/90	5	103.	104.4	108.	102.	8.3	2.881	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/06/90-09/07/90	5	12.	12.08	14.	10.2	2.527	1.59	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/06/90-09/07/90	5	107.	105.6	108.	100.	11.3	3.362	**	**	**	**
00400	PH (STANDARD UNITS)	05/06/90-09/07/90	5	7.19	7.158	7.24	6.98	0.012	0.108	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/06/90-09/07/90	5	7.19	7.147	7.24	6.98	0.012	0.109	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/06/90-09/07/90	5	0.065	0.071	0.105	0.058	0.	0.02	**	**	**	**
00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/06/90-09/07/90	2	0.033	0.033	0.033	0.032	0.	0.001	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/06/90-05/06/90	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/06/90-09/07/90	5	0.096	0.099	0.116	0.073	0.	0.018	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/06/90-05/06/90	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/06/90-09/07/90	5	0.003	0.003	0.004	0.002	0.	0.001	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/06/90-09/07/90	5	0.001	0.001	0.002	0.001	0.	0.001	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/06/90-05/06/90	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/06/90-09/07/90	2	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/06/90-09/07/90	5	13.3	13.32	13.6	13.1	0.052	0.228	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/06/90-09/07/90	5	1.	1.	1.	1.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/06/90-09/07/90	5	3.2	3.16	3.4	2.9	0.033	0.182	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/06/90-09/07/90	5	2.4	2.36	2.5	2.2	0.013	0.114	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/06/90-09/07/90	2	1.05	1.05	1.3	0.8	0.125	0.354	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/06/90-09/07/90	2	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/06/90-09/07/90	5	41.	41.	42.	40.	0.5	0.707	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0019

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	5	0	0.00	4	0	0.00							1	0	0.00
00400	PH	Fresh Chronic	9.	5	0	0.00	4	0	0.00							1	0	0.00
		Other-Lo Lim.	6.5	5	0	0.00	4	0	0.00							1	0	0.00

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

EPA Water Quality Criteria Analysis for Station: APIS0019

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00										1	0	0.00
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	5	0	0.00	4	0	0.00							1	0	0.00
		Drinking Water	250.	5	0	0.00	4	0	0.00							1	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	5	0	0.00	4	0	0.00							1	0	0.00

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

Station Inventory for Station: APIS0020

NPS Station ID: APIS0020
LAT/LON: 47.100837/ -90.461670
Agency: AIJCCCIW
Date Created: 12/17/94
Location: OPEN LAKE STATION
FIPS State/County: 00996 CANADA/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): C92SU185
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 101
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0020

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/11/92-09/09/92	9	66.	45.111	98.	0.	1850.861	43.022	0.	1.5	85.	98.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/11/92-09/09/92	2	7.35	7.35	11.4	3.3	32.805	5.728	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/11/92-05/11/92	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	05/11/92-05/11/92	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/11/92-09/09/92	4	99.	99.75	104.	97.	8.917	2.986	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/11/92-09/09/92	4	11.25	11.95	14.2	11.1	2.257	1.502	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/11/92-09/09/92	4	104.5	104.75	109.	101.	10.917	3.304	**	**	**	**
00400	PH (STANDARD UNITS)	05/11/92-09/09/92	4	7.76	7.645	7.82	7.24	0.074	0.273	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/11/92-09/09/92	4	7.759	7.571	7.82	7.24	0.082	0.286	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/11/92-09/09/92	4	0.017	0.027	0.058	0.015	0.	0.02	**	**	**	**
00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/11/92-09/09/92	2	0.019	0.019	0.02	0.018	0.	0.001	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/11/92-05/11/92	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/11/92-09/09/92	4	0.121	0.116	0.132	0.088	0.	0.02	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/11/92-05/11/92	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/11/92-09/09/92	4	0.004	0.004	0.005	0.003	0.	0.001	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/11/92-09/09/92	4	0.002	0.002	0.003	0.002	0.	0.001	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/11/92-09/09/92	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/11/92-05/11/92	1	13.4	13.4	13.4	13.4	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/11/92-09/09/92	4	1.	1.	1.	1.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/11/92-09/09/92	4	3.15	3.325	3.9	3.1	0.149	0.386	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/11/92-09/09/92	4	2.3	2.35	2.5	2.3	0.01	0.1	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/11/92-09/09/92	2	1.1	1.1	1.4	0.8	0.18	0.424	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/11/92-09/09/92	2	0.7	0.7	0.9	0.5	0.08	0.283	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/11/92-09/09/92	4	43.	41.75	43.	38.	6.25	2.5	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0020

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	4	0	0.00	3	0	0.00							1	0	0.00
00400	PH	Fresh Chronic	9.	4	0	0.00	3	0	0.00							1	0	0.00
		Other-Lo Lim.	6.5	4	0	0.00	3	0	0.00							1	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00										1	0	0.00

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

EPA Water Quality Criteria Analysis for Station: APIS0020

Parameter				Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	4	0	0.00	3	0	0.00							1	0	0.00
		Drinking Water	250.	4	0	0.00	3	0	0.00							1	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	4	0	0.00	3	0	0.00							1	0	0.00

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

Station Inventory for Station: APIS0021

NPS Station ID: APIS0021
LAT/LON: 47.100003/ -90.461949
Agency: AIJCCCIW
Date Created: 04/09/88
Location: OPEN LAKE STATION
FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): C86SU185
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 111
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: OPEN LAKE STATION
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/16/86-05/07/89	13	13.	38.615	112.	0.	1780.09	42.191	0.	1.5	79.	104.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/86-05/07/89	11	4.2	4.1	6.3	1.7	3.312	1.82	1.72	1.8	6.2	6.3
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/16/86-05/16/86	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	05/16/86-05/16/86	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/86-05/17/87	2	95.5	95.5	97.	94.	4.5	2.121	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/16/86-05/07/89	3	13.5	13.4	13.7	13.	0.13	0.361	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/16/86-05/07/89	3	104.	104.	108.	100.	16.	4.	**	**	**	**
00400	PH (STANDARD UNITS)	05/16/86-05/07/89	3	7.86	7.867	7.89	7.85	0.	0.021	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/16/86-05/07/89	3	7.86	7.866	7.89	7.85	0.	0.021	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/16/86-05/07/89	3	0.014	0.014	0.014	0.013	0.	0.001	**	**	**	**
00601	NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	05/17/87-05/07/89	2	0.017	0.017	0.019	0.015	0.	0.003	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/16/86-05/07/89	3	0.002	0.003	0.004	0.002	0.	0.001	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/16/86-05/07/89	3	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/16/86-05/07/89	3	0.004	0.004	0.004	0.003	0.	0.001	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/16/86-05/07/89	3	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/16/86-05/07/89	3	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/17/87-05/07/89	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/16/86-05/07/89	3	13.1	13.233	13.6	13.	0.103	0.321	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/16/86-05/07/89	3	3.3	3.267	3.3	3.2	0.003	0.058	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/16/86-05/07/89	3	2.5	2.467	2.5	2.4	0.003	0.058	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/17/87-05/07/89	2	1.	1.	1.3	0.7	0.18	0.424	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/17/87-05/07/89	2	0.95	0.95	1.3	0.6	0.245	0.495	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/16/86-05/07/89	3	41.	40.667	41.	40.	0.333	0.577	**	**	**	**
82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	05/16/86-05/07/89	3	1.3	1.333	1.5	1.2	0.023	0.153	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0021

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	3	0	0.00										3	0	0.00
00400	PH	Fresh Chronic	9.	3	0	0.00										3	0	0.00
		Other-Lo Lim.	6.5	3	0	0.00										3	0	0.00
00631	NITRITE 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 criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: APIS0021

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	3	0	0.00										3	0	0.00
82295	CHLORIDE DISSOLVED AS CL IN WATER	Fresh Acute	860000.	3	0	0.00										3	0	0.00
		Drinking Water	250000.	3	0	0.00										3	0	0.00

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

Station Inventory for Station: APIS0022

NPS Station ID: APIS0022
LAT/LON: 47.100560/ -90.462504
Agency: AIJCCCIW
Date Created: 11/02/85
Location: OPEN LAKE STATION
FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): C83SU185
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 88
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: OPEN LAKE STATION
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0022

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/24/83-10/22/83	22	49.	46.364	102.	0.	1602.909	40.036	0.	3.	82.	100.8
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/24/83-10/22/83	18	7.55	9.3	20.2	3.7	30.724	5.543	3.7	5.6	10.35	20.2
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/24/83-09/07/83	3	11.	13.667	22.	8.	54.333	7.371	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	05/24/83-09/07/83	3	5.	7.667	14.	4.	30.333	5.508	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/24/83-10/22/83	14	105.5	105.071	113.	99.	17.148	4.141	99.5	100.	107.5	111.5
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/24/83-10/22/83	10	11.9	12.06	13.8	9.4	2.429	1.559	9.44	11.075	13.7	13.79
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/24/83-10/22/83	10	106.	105.5	110.	100.	14.722	3.837	100.1	101.	110.	110.
00400	PH (STANDARD UNITS)	05/24/83-10/22/83	14	8.015	8.019	8.25	7.83	0.014	0.12	7.865	7.93	8.073	8.25
00400	CONVERTED PH (STANDARD UNITS)	05/24/83-10/22/83	14	8.015	8.005	8.25	7.83	0.015	0.121	7.865	7.93	8.073	8.25
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/24/83-10/22/83	14	0.01	0.01	0.015	0.006	0.	0.003	0.006	0.008	0.012	0.014
00601	NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	05/24/83-10/22/83	4	0.021	0.021	0.025	0.016	0.	0.004	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/24/83-10/22/83	14 ##	0.001	0.001	0.004	0.001	0.	0.001	0.001	0.001	0.002	0.004
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/24/83-10/22/83	14	0.088	0.089	0.106	0.077	0.	0.009	0.079	0.083	0.094	0.106
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/24/83-10/22/83	14	0.3	0.3	0.3	0.3	0.	0.	0.3	0.3	0.3	0.3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/24/83-10/22/83	14	0.003	0.003	0.006	0.002	0.	0.001	0.003	0.003	0.004	0.006
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/24/83-10/22/83	14	0.002	0.002	0.003	0.001	0.	0.001	0.001	0.001	0.002	0.003
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/24/83-10/22/83	14	0.	0.	0.001	0.	0.	0.	0.	0.	0.001	0.001
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	05/24/83-10/22/83	14	1.6	2.043	7.4	1.2	2.429	1.558	1.3	1.5	1.8	4.8
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/24/83-10/22/83	4	0.2	0.175	0.2	0.1	0.003	0.05	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/24/83-10/22/83	10	13.4	13.38	13.7	13.1	0.028	0.169	13.11	13.275	13.5	13.68
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/24/83-10/22/83	10	2.8	2.78	2.8	2.7	0.002	0.042	2.7	2.775	2.8	2.8
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/24/83-10/22/83	10	1.3	1.31	1.4	1.2	0.003	0.057	1.21	1.3	1.325	1.4
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/24/83-10/22/83	10	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/24/83-10/22/83	14	3.4	3.436	3.7	3.2	0.019	0.139	3.25	3.3	3.525	3.65
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/24/83-10/22/83	14	2.3	2.271	2.4	2.1	0.011	0.107	2.1	2.175	2.325	2.4
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/24/83-10/22/83	4	1.2	1.175	1.4	0.9	0.042	0.206	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/24/83-10/22/83	4	0.9	0.925	1.1	0.8	0.023	0.15	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/24/83-10/22/83	14	41.	41.	46.	37.	6.154	2.481	38.	39.	41.75	45.5
82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	05/24/83-10/22/83	14	1.3	1.386	1.7	1.2	0.027	0.166	1.2	1.3	1.45	1.7

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

EPA Water Quality Criteria Analysis for Station: APIS0022

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	10	0	0.00	7	0	0.00							3	0	0.00
00400	PH	Fresh Chronic	9.	14	0	0.00	7	0	0.00							7	0	0.00
		Other-Lo Lim.	6.5	14	0	0.00	7	0	0.00							7	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	14	0	0.00	7	0	0.00							7	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	14	0	0.00	7	0	0.00							7	0	0.00
82295	CHLORIDE DISSOLVED AS CL IN WATER	Fresh Acute	860000.	14	0	0.00	7	0	0.00							7	0	0.00
		Drinking Water	250000.	14	0	0.00	7	0	0.00							7	0	0.00

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

Station Inventory for Station: APIS0023

NPS Station ID: APIS0023 LAT/LON: 47.100003/ -90.462504 Agency: AIJCCCIW Date Created: 02/09/78
Location: 5 MI NE OF OUTER I.,WISCONSIN FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): C73SU185
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04020300 Depth of Water: 1279 Aquifer:
Major Basin: GREAT LAKES Elevation: 0 Water Body Id:
Minor Basin: L. SUPERIOR CANADIAN 1973 STATION #185 ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 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. USEPA CONTACTS: NELSON THOMAS OR WILLIAM RICHARDSON, 313-226-7811. DATA FOR THIS STATION IN 1973 WAS COLLECTED IN PART FOR THE IJC INTERNATIONAL SURVEILLANCE PROGRAM FOR THE GREAT LAKES. ADDITIONAL INFORMATION ON GREAT LAKES CANADIAN DATA IS ON DATA SET CN.EPANAT.CNLL.CANADA.NEWS AT THE STORET COMPUTER SITE.

Parameter Inventory for Station: APIS0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/25/73-09/15/73	17	16.	35.647	118.	0.	1543.493	39.287	0.	3.	76.5	104.4
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/25/73-09/15/73	17	9.7	10.459	17.4	5.	18.851	4.342	5.	6.35	13.15	17.24
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	06/25/73-09/15/73	11	55.	58.	79.	38.	110.	10.488	41.2	55.	61.	77.6
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/25/73-09/15/73	14	0.4	0.436	0.6	0.3	0.016	0.128	0.3	0.3	0.6	0.6
00078	TRANSPARENCY, SECCHI DISC (METERS)	06/25/73-08/05/73	2	7.5	7.5	9.	6.	4.5	2.121	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	06/25/73-08/05/73	2	7.	7.	7.	7.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/25/73-09/15/73	14	11.95	11.814	13.1	10.1	1.211	1.1	10.15	10.975	12.85	13.1
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/25/73-09/15/73	14	106.	105.857	111.	97.	10.44	3.231	100.5	104.	108.	110.
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/05/73-09/15/73	9	43.	42.556	43.	42.	0.278	0.527	42.	42.	43.	43.
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	06/25/73-09/15/73	14	0.009	0.008	0.011	0.003	0.	0.003	0.003	0.004	0.01	0.011
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/25/73-09/15/73	14	0.3	0.264	0.3	0.2	0.002	0.05	0.2	0.2	0.3	0.3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/25/73-09/15/73	9	0.004	0.004	0.006	0.004	0.	0.001	0.004	0.004	0.005	0.006
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	06/25/73-09/15/73	9	0.003	0.003	0.004	0.002	0.	0.001	0.002	0.003	0.004	0.004
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/25/73-09/15/73	14	0.001	0.001	0.003	0.001	0.	0.001	0.001	0.001	0.002	0.003
00940	CHLORIDE,TOTAL IN WATER MG/L	09/15/73-09/15/73	5	1.	1.	1.	1.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/25/73-09/15/73	14	2.4	2.429	2.7	2.2	0.015	0.12	2.25	2.375	2.5	2.6

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

EPA Water Quality Criteria Analysis for Station: APIS0023

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	14	0	0.00	9	0	0.00							5	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	14	0	0.00	9	0	0.00							5	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	14	0	0.00	9	0	0.00							5	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	5	0	0.00	5	0	0.00									
		Drinking Water	250.	5	0	0.00	5	0	0.00									

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

Station Inventory for Station: APIS0024

NPS Station ID: APIS0024
LAT/LON: 47.100560/ -90.464448
Agency: AIJCCCIW
Date Created: 12/17/94
Location: OPEN LAKE STATION
FIPS State/County: 00996 CANADA/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): C91SU185
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 104
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/15/91-09/03/91	13	49.	53.462	105.	0.	2020.103	44.946	0.	3.	100.	103.8
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/91-09/03/91	2	10.15	10.15	16.5	3.8	80.645	8.98	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/15/91-05/15/91	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	05/15/91-05/15/91	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/91-09/03/91	7	102.	101.429	108.	97.	18.286	4.276	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/15/91-09/03/91	7	12.1	11.829	13.8	10.6	1.589	1.261	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/15/91-09/03/91	7	102.	104.	110.	99.	20.667	4.546	**	**	**	**
00400	PH (STANDARD UNITS)	05/15/91-09/03/91	7	7.53	7.604	7.96	7.5	0.027	0.164	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/15/91-09/03/91	7	7.53	7.583	7.96	7.5	0.027	0.165	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/15/91-09/03/91	7	0.03	0.026	0.032	0.011	0.	0.007	**	**	**	**
00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/15/91-09/03/91	2	0.034	0.034	0.038	0.029	0.	0.006	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/15/91-05/15/91	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/15/91-09/03/91	7	0.077	0.081	0.099	0.071	0.	0.011	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/15/91-05/15/91	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/15/91-09/03/91	7	0.003	0.003	0.004	0.002	0.	0.001	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/15/91-09/03/91	7	0.001	0.001	0.003	0.001	0.	0.001	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/15/91-05/15/91	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/15/91-09/03/91	2	0.25	0.25	0.3	0.2	0.005	0.071	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/15/91-09/03/91	7	1.	1.	1.	1.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/15/91-09/03/91	7	3.5	3.457	3.6	3.2	0.026	0.162	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/15/91-09/03/91	7	2.4	2.443	2.5	2.4	0.003	0.053	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/15/91-09/03/91	2	0.75	0.75	0.8	0.7	0.005	0.071	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/15/91-09/03/91	2	0.4	0.4	0.5	0.3	0.02	0.141	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/15/91-09/03/91	7	38.	38.143	41.	36.	2.143	1.464	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0024

			Total	Exceed	Prop.	7/15-11/30			12/01-2/29			3/01-4/14			4/15-7/14		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	7	0	0.00	6	0	0.00							1	0	0.00
00400	PH	Fresh Chronic	9.	7	0	0.00	6	0	0.00							1	0	0.00
		Other-Lo Lim.	6.5	7	0	0.00	6	0	0.00							1	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00										1	0	0.00

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

EPA Water Quality Criteria Analysis for Station: APIS0024

Parameter				Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	7	0	0.00	6	0	0.00							1	0	0.00
		Drinking Water	250.	7	0	0.00	6	0	0.00							1	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	7	0	0.00	6	0	0.00							1	0	0.00

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

Station Inventory for Station: APIS0025

NPS Station ID: APIS0025 LAT/LON: 46.979226/ -90.467781 Agency: 11NPSWRD Date Created: 03/21/98
Location: LAKE SUPERIOR 0.5 MILES SOUTH OF OUTER ISLAND FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): APIS_OUTER_IS
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE MICHIGAN ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON LAKE SUPERIOR APPROXIMATELY 0.5 MILES SOUTH OF OUTER ISLAND. SAMPLES FOR THIS SITE WERE COLLECTED MONTHLY OVER THE SUMMER OF 1996. SAMPLES WERE ANALYZED FOR PHYSICAL PARAMETERS AND NUTRIENT CONCENTRATIONS. THE RESULTS ARE IN "LAKE SUPERIOR FOOD WEB - APOSTLE ISLANDS ONRW" BY LAKE SUPERIOR ECOSYSTEM RESEARCH CENTER; MICHIGAN TECHNOLOGY UNIVERSITY (JUNE 1997). THE DATA WERE RECEIVED IN DIGITAL FORMAT FROM NATURAL RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE. LAT/LONG COORDINATES ARE THE CENTROID OF THREE LORAN READINGS (1 FOR EACH MONTH SAMPLED). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/10/96-08/20/96	44	39.	36.432	72.	0.	442.763	21.042	5.	17.	55.	60.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/10/96-08/20/96	35	9.4	9.674	15.6	3.7	17.138	4.14	3.76	6.2	14.3	15.5
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	06/10/96-08/20/96	35	64.9	63.103	64.9	60.	3.82	1.955	60.	61.7	64.9	64.9
00078	TRANSPARENCY, SECCHI DISC (METERS)	06/10/96-08/20/96	3	11.43	10.907	12.15	9.14	2.47	1.572	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/10/96-08/20/96	35	99.	125.371	1019.	95.	24182.887	155.508	96.	97.	101.	102.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/10/96-08/20/96	35	11.8	11.814	13.7	10.2	1.307	1.143	10.2	10.6	12.7	13.7
00406	PH, FIELD, STANDARD UNITS SU	06/10/96-08/20/96	35	7.84	7.777	7.91	7.33	0.034	0.185	7.35	7.8	7.89	7.91
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/10/96-08/20/96	35	7.84	7.73	7.91	7.33	0.037	0.191	7.35	7.8	7.89	7.91
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/10/96-08/20/96	35	0.014	0.019	0.047	0.012	0.	0.011	0.012	0.013	0.016	0.045
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/10/96-08/20/96	9	0.4	0.411	0.5	0.4	0.001	0.033	0.4	0.4	0.4	0.5
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/10/96-08/20/96	9 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/10/96-08/20/96	9	2.1	2.022	2.9	1.1	0.569	0.755	1.1	1.2	2.75	2.9
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/09/96-08/20/96	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/10/96-08/20/96	35	294.	295.686	338.	276.	307.222	17.528	282.	283.	297.	334.4
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/10/96-08/20/96	35	63.	63.4	65.	61.	1.894	1.376	61.	62.	65.	65.
70971	LIGHT, ATTENUATION COEFFICIENT (ALPHA/M)	06/10/96-08/20/96	2	0.218	0.218	0.292	0.143	0.011	0.105	**	**	**	**
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	06/10/96-08/20/96	9 ##	0.005	0.009	0.04	0.005	0.	0.012	0.005	0.005	0.005	0.04
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/10/96-08/20/96	35	8.5	10.051	42.7	0.	73.77	8.589	0.6	7.7	10.9	18.96
82127	WIND SPEED KNOTS	06/10/96-08/20/96	35	5.	5.943	9.	2.	6.055	2.461	2.	5.	9.	9.

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

EPA Water Quality Criteria Analysis for Station: APIS0025

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	35	0	0.00	18	0	0.00							17	0	0.00
00406	PH, FIELD	Fresh Chronic	9.	35	0	0.00	18	0	0.00							17	0	0.00
		Other-Lo Lim.	6.5	35	0	0.00	18	0	0.00							17	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	9	0	0.00	3	0	0.00							6	0	0.00
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	35	0	0.00	18	0	0.00							17	0	0.00

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

Station Inventory for Station: APIS0026

NPS Station ID: APIS0026
LAT/LON: 46.877227/ -90.510837
Agency: 112WRD
Date Created: 05/25/85
Location: MICHIGAN ISLAND LAGOON - EAST BASIN
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 465238090303901
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/24/84-08/24/84	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/24/84-08/24/84	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/24/84-08/24/84	1	4.7	4.7	4.7	4.7	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/24/84-08/24/84	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/24/84-08/24/84	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/24/84-08/24/84	1	0.398	0.398	0.398	0.398	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/24/84-08/24/84	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/24/84-08/24/84	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/24/84-08/24/84	1	0.251	0.251	0.251	0.251	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/24/84-08/24/84	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/24/84-08/24/84	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/24/84-08/24/84	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/24/84-08/24/84	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/24/84-08/24/84	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/24/84-08/24/84	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/24/84-08/24/84	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/24/84-08/24/84	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/24/84-08/24/84	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/24/84-08/24/84	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/24/84-08/24/84	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/24/84-08/24/84	1	9.3	9.3	9.3	9.3	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/24/84-08/24/84	1	59.	59.	59.	59.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0026

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									

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

EPA Water Quality Criteria Analysis for Station: APIS0026

Parameter				Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0027

NPS Station ID: APIS0027 LAT/LON: 46.876865/ -90.511448 Agency: 11NPSWRD Date Created: 03/21/98
Location: LAGOON ON SOUTHWEST PART OF MICHIGAN ISLAND FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/FWTLND STORET Station ID(s): APIS_MICHIG_LAG
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE STOCKTON ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON A LAGOON ON THE SOUTHWEST PART OF MICHIGAN ISLAND. SAMPLES FOR THIS SITE WERE COLLECTED MONTHLY OVER THE SUMMER OF 1996. SAMPLES WERE ANALYZED FOR PHYSICAL PARAMETERS AND NUTRIENT CONCENTRATIONS. THE RESULTS ARE IN "LAKE SUPERIOR FOOD WEB - APOSTLE ISLANDS ONRW" BY LAKE SUPERIOR ECOSYSTEM RESEARCH CENTER; MICHIGAN TECHNOLOGY UNIVERSITY (JUNE 1997). THE DATA WERE RECEIVED IN DIGITAL FORMAT FROM NATURAL RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE. FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.
COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/11/96-08/20/96	29	3.	2.655	5.	0.	2.505	1.583	0.	1.5	3.5	5.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/11/96-08/20/96	20	21.8	21.175	23.4	18.2	2.254	1.501	18.48	19.7	22.2	22.69
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	06/11/96-08/20/96	20	75.	71.75	75.	60.	29.671	5.447	60.	70.	75.	75.
00078	TRANSPARENCY, SECCHI DISC (METERS)	06/11/96-08/20/96	3	0.9	1.037	1.37	0.84	0.084	0.29	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/11/96-08/20/96	20	92.	91.55	201.	48.	1419.103	37.671	48.	61.5	94.	164.4
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/11/96-08/20/96	20	5.6	5.215	8.3	0.2	5.791	2.406	1.2	4.5	7.425	8.1
00406	PH, FIELD, STANDARD UNITS SU	06/11/96-08/20/96	20	6.735	6.605	6.92	5.62	0.093	0.305	6.123	6.543	6.765	6.829
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/11/96-08/20/96	20	6.735	6.446	6.92	5.62	0.12	0.346	6.123	6.542	6.765	6.829
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/11/96-08/20/96	20	0.184	0.358	2.399	0.12	0.256	0.506	0.148	0.172	0.287	0.762
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/11/96-08/20/96	9	0.005	0.007	0.02	0.003	0.	0.005	0.003	0.004	0.009	0.02
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/11/96-08/20/96	9 ##	0.005	0.007	0.01	0.005	0.	0.003	0.005	0.005	0.01	0.01
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/11/96-08/20/96	9	3.7	3.1	4.7	1.2	2.068	1.438	1.2	1.25	4.2	4.7
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/11/96-08/20/96	3	0.6	0.733	1.1	0.5	0.103	0.321	**	**	**	**
46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/11/96-08/20/96	20	302.	303.45	353.	174.	1423.945	37.735	268.7	299.25	328.5	348.
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/11/96-08/20/96	20	59.	58.95	120.	31.	534.261	23.114	31.	40.5	60.	107.6
70971	LIGHT, ATTENUATION COEFFICIENT (ALPHA/M)	06/11/96-08/20/96	2	1.765	1.765	1.79	1.74	0.001	0.035	**	**	**	**
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	06/11/96-08/20/96	9 ##	0.005	0.019	0.13	0.005	0.002	0.042	0.005	0.005	0.005	0.13
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/11/96-08/20/96	20	0.1	5.	35.9	0.	110.981	10.535	0.	0.1	0.1	21.97
82127	WIND SPEED KNOTS	06/11/96-08/20/96	20	0.	2.35	8.	0.	11.608	3.407	0.	0.	5.	8.

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

EPA Water Quality Criteria Analysis for Station: APIS0027

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	20	4	0.20	13	3	0.23							7	1	0.14
00406	PH, FIELD	Fresh Chronic	9.	20	0	0.00	13	0	0.00							7	0	0.00
		Other-Lo Lim.	6.5	20	4	0.20	13	2	0.15							7	2	0.29
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	9	0	0.00	3	0	0.00							6	0	0.00
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	20	0	0.00	13	0	0.00							7	0	0.00

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

Station Inventory for Station: APIS0028

NPS Station ID: APIS0028 LAT/LON: 46.877170/ -90.512087 Agency: 11NPSWRD Date Created: 04/04/98
Location: MICHIGAN ISLAND LAGOON IN LAKE SUPERIOR FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/FWTLND STORET Station ID(s): APIS_UW_MICHLAG
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE STOCKTON ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON MICHIGAN ISLAND LAGOON ON THE SOUTHWEST PART OF MICHIGAN ISLAND. SAMPLES FOR THIS SITE WERE COLLECTED ON JUNE 10 AND AUGUST 22 OF 1986 AND ON JUNE 24 AND SEPTEMBER 22 OF 1987. SAMPLES WERE ANALYZED FOR TEMPERATURE; DISSOLVED OXYGEN; CONDUCTIVITY; PH; AND ALKALINITY. THE RESULTS ARE IN "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE 1986-1988" BY MARY BALCER AND DENNIS MCCAULEY WITH THE CENTER FOR LAKE SUPERIOR ENVIRONMENTAL STUDIES; UNIVERSITY OF WISCONSIN-SUPERIOR (MARCH 1989). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/10/86-09/22/87	12	2.5	2.417	7.	0.	4.992	2.234	0.	0.	3.75	6.4
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/10/86-09/22/87	12	18.5	19.492	27.7	15.9	12.323	3.51	16.08	17.275	20.575	26.89
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/10/86-09/22/87	11	60.	89.364	200.	46.	3360.455	57.969	46.4	55.	125.	199.4
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/10/86-06/24/87	9	4.4	3.611	6.	0.2	4.476	2.116	0.2	1.7	5.45	6.
00406	PH, FIELD, STANDARD UNITS SU	06/10/86-09/22/87	11	6.5	6.318	6.9	5.5	0.254	0.504	5.52	5.6	6.6	6.88
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/10/86-09/22/87	11	6.5	6.028	6.9	5.5	0.346	0.589	5.52	5.6	6.6	6.88
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/10/86-09/22/87	11	0.316	0.938	3.162	0.126	1.356	1.165	0.132	0.251	2.512	3.032
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/10/86-09/22/87	9	36.	35.667	51.	25.	96.75	9.836	25.	26.	43.5	51.

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

EPA Water Quality Criteria Analysis for Station: APIS0028

				Total	Exceed	Prop.	7/15-11/30			12/01-2/29			3/01-4/14			4/15-7/14		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	9	4	0.44	3	1	0.33							6	3	0.50
00406	PH, FIELD	Fresh Chronic	9.	11	0	0.00	5	0	0.00							6	0	0.00
		Other-Lo Lim.	6.5	11	7	0.64	5	2	0.40							6	5	0.83

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

Station Inventory for Station: APIS0029

NPS Station ID: APIS0029
LAT/LON: 46.877227/ -90.512226
Agency: 112WRD
Date Created: 02/23/85
Location: MICHIGAN ISLAND LAGOON - WEST BASIN
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 465238090304401
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/24/84-08/24/84	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/24/84-08/24/84	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/24/84-08/24/84	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/24/84-08/24/84	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/24/84-08/24/84	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/24/84-08/24/84	1	0.398	0.398	0.398	0.398	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/24/84-08/24/84	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/24/84-08/24/84	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/24/84-08/24/84	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/24/84-08/24/84	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/24/84-08/24/84	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/24/84-08/24/84	1	0.096	0.096	0.096	0.096	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/24/84-08/24/84	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/24/84-08/24/84	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/24/84-08/24/84	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/24/84-08/24/84	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/24/84-08/24/84	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/24/84-08/24/84	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/24/84-08/24/84	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/24/84-08/24/84	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/24/84-08/24/84	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/24/84-08/24/84	1	67.	67.	67.	67.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0029

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	1	1.00	1	1	1.00									
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									

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

EPA Water Quality Criteria Analysis for Station: APIS0029

Parameter				Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0030

NPS Station ID: APIS0030
LAT/LON: 46.966254/ -90.533809
Agency: 11NPSWRD
Date Created: 10/03/98
Location: STOCKTON ISLAND-STATION #1
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): APIS_USGS_1
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: MONTREAL
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE STOCKTON ISLAND WI-ASHLAND CO. 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. STATION #1 IS AT STOCKTON ISLAND AT A STREAM AND IS LOCATED INSIDE APOSTLE ISLAND NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE USGS WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY W.J. ROSE (1988); PREPARED BY THE USGS. THE OBJECTIVES OF THE REPORT ARE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY DURING 1979-1984 WATER YEARS AND TO PROVIDEA QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE." LATITUDE AND LONGITUDE COORDINATE VALUES WERE OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP USING FIGURE 3 IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WI 54814 (TEL. 715-779-3397). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NPSWRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0030

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/06/80-08/06/80	1	17.5	17.5	17.5	17.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/06/80-08/06/80	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/06/80-08/06/80	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/06/80-08/06/80	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/06/80-08/06/80	1	4.7	4.7	4.7	4.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/06/80-08/06/80	1	4.7	4.7	4.7	4.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/06/80-08/06/80	1	19.953	19.953	19.953	19.953	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	08/06/80-08/06/80	1	68.	68.	68.	68.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	08/06/80-08/06/80	1	1.833	1.833	1.833	1.833	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			68.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/06/80-08/06/80	1	80.	80.	80.	80.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/06/80-08/06/80	1	1.903	1.903	1.903	1.903	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			80.								

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

EPA Water Quality Criteria Analysis for Station: APIS0030

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	1	1.00	1	1	1.00									
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0031

NPS Station ID: APIS0031 LAT/LON: 46.850004/ -90.538337 Agency: AIJCCCIW Date Created: 02/09/78
Location: SOUTH OF MICHIGAN I.,WISCONSIN FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): C73SU197
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04020300 Depth of Water: 1738 Aquifer:
Major Basin: GREAT LAKES Elevation: 0 Water Body Id:
Minor Basin: L. SUPERIOR CANADIAN 1973 STATION #197 ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 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. USEPA CONTACTS: NELSON THOMAS OR WILLIAM RICHARDSON, 313-226-7811. DATA FOR THIS STATION IN 1973 WAS COLLECTED IN PART FOR THE IJC INTERNATIONAL SURVEILLANCE PROGRAM FOR THE GREAT LAKES. ADDITIONAL INFORMATION ON GREAT LAKES CANADIAN DATA IS ON DATA SET CN.EPANAT.CNLL.CANADA.NEWS AT THE STORET COMPUTER SITE.

Parameter Inventory for Station: APIS0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/22/73-11/27/73	28	16.	29.536	124.	0.	1093.888	33.074	0.	3.	41.75	82.7
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/73-11/27/73	28	8.1	9.518	19.8	3.8	29.222	5.406	4.	4.8	14.875	18.55
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	05/22/73-11/27/73	16	53.5	50.563	59.	36.	51.463	7.174	40.2	43.25	57.	57.6
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/22/73-11/27/73	21	0.5	0.519	0.9	0.3	0.023	0.15	0.32	0.4	0.6	0.7
00300	OXYGEN, DISSOLVED MG/L	05/22/73-11/27/73	21	12.2	11.843	13.6	9.6	1.9	1.378	9.66	10.45	13.25	13.58
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/22/73-11/27/73	21	105.	104.81	113.	97.	17.362	4.167	97.	103.5	108.	109.8
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/22/73-11/27/73	17	42.	42.706	45.	41.	2.346	1.532	41.	41.5	44.5	45.
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/22/73-11/27/73	21	0.006	0.008	0.017	0.002	0.	0.004	0.003	0.005	0.012	0.015
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/22/73-11/27/73	21	0.3	0.3	0.5	0.2	0.003	0.055	0.22	0.3	0.3	0.3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/73-11/27/73	15	0.006	0.006	0.011	0.003	0.	0.003	0.004	0.005	0.008	0.011
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/22/73-11/27/73	14	0.005	0.005	0.01	0.002	0.	0.003	0.002	0.003	0.007	0.01
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/22/73-11/27/73	21	0.001	0.001	0.003	0.	0.	0.001	0.	0.001	0.001	0.003
00940	CHLORIDE,TOTAL IN WATER MG/L	05/22/73-09/16/73	10	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/22/73-11/27/73	21	2.4	2.376	2.5	2.1	0.009	0.094	2.22	2.35	2.4	2.5
31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	08/06/73-09/16/73	5	2.	46.812	222.	0.03	9607.796	98.019	**	**	**	**
31503	LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	08/06/73-09/16/73	5	0.301	0.12	2.346	-1.523	2.79	1.67	**	**	**	**
31503	GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =			1.319								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/06/73-08/06/73	1	10.	10.	10.	10.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/06/73-08/06/73	1	1.	1.	1.	1.	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			10.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/22/73-06/26/73	3	1.	2.	4.	1.	3.	1.732	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/22/73-06/26/73	3	0.	0.201	0.602	0.	0.121	0.348	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			1.587								
31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	06/26/73-09/16/73	6	122.	128.	210.	77.	2338.	48.353	**	**	**	**
31749	LOG PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	06/26/73-09/16/73	6	2.086	2.082	2.322	1.886	0.025	0.159	**	**	**	**
31749	GM PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	GEOMETRIC MEAN =			120.916								

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

EPA Water Quality Criteria Analysis for Station: APIS0031

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	21	0	0.00	12	0	0.00							9	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	21	0	0.00	12	0	0.00							9	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	21	0	0.00	12	0	0.00							9	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	10	0	0.00	5	0	0.00							5	0	0.00
		Drinking Water	250.	10	0	0.00	5	0	0.00							5	0	0.00
31503	COLIFORM,TOT,MEMBRANE FILTR,DELAY. M-END	Other-Hi Lim.	1000.	5	0	0.00	5	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0032

NPS Station ID: APIS0032
LAT/LON: 46.848892/ -90.538892
Agency: AIJCCCIW
Date Created: 11/02/85
Location: OPEN LAKE STATION
FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): C83SU197
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 65
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: OPEN LAKE STATION
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/24/83-10/22/83	20	34.5	32.55	66.	0.	783.734	27.995	0.	3.	62.	65.6
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/24/83-10/22/83	16	8.15	9.337	19.2	4.1	22.437	4.737	4.24	5.825	11.3	19.13
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/24/83-06/28/83	2	10.25	10.25	13.5	7.	21.125	4.596	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	05/24/83-06/28/83	2	14.5	14.5	18.	11.	24.5	4.95	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/24/83-10/22/83	12	106.5	105.	113.	92.	28.909	5.377	94.1	102.25	107.75	111.5
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/24/83-10/22/83	12	12.2	12.142	13.4	9.7	1.239	1.113	10.12	11.4	13.175	13.37
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/24/83-10/22/83	12	106.5	105.5	111.	100.	15.182	3.896	100.	101.5	108.	111.
00400	PH (STANDARD UNITS)	05/24/83-10/22/83	11	7.98	8.007	8.19	7.87	0.012	0.112	7.874	7.93	8.08	8.19
00400	CONVERTED PH (STANDARD UNITS)	05/24/83-10/22/83	11	7.98	7.995	8.19	7.87	0.013	0.112	7.874	7.93	8.08	8.19
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/24/83-10/22/83	11	0.01	0.01	0.013	0.006	0.	0.002	0.006	0.008	0.012	0.013
00601	NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	05/24/83-10/22/83	4	0.023	0.024	0.03	0.02	0.	0.004	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/24/83-10/22/83	12	0.002	0.002	0.004	0.001	0.	0.001	0.001	0.001	0.003	0.004
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/24/83-10/22/83	12	0.086	0.088	0.118	0.074	0.	0.014	0.074	0.076	0.099	0.114
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/24/83-10/22/83	12	0.3	0.3	0.3	0.3	0.	0.	0.3	0.3	0.3	0.3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/24/83-10/22/83	12	0.003	0.003	0.004	0.003	0.	0.	0.003	0.003	0.004	0.004
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/24/83-10/22/83	12	0.001	0.002	0.003	0.001	0.	0.001	0.001	0.001	0.002	0.003
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/24/83-10/22/83	12	0.001	0.001	0.001	0.	0.	0.	0.	0.	0.001	0.001
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	05/24/83-10/22/83	12	1.5	1.458	1.7	1.2	0.023	0.151	1.2	1.4	1.575	1.67
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/24/83-10/22/83	4	0.2	0.175	0.2	0.1	0.003	0.05	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/24/83-10/22/83	9	13.4	13.633	15.2	13.2	0.437	0.661	13.2	13.25	13.85	15.2
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/24/83-10/22/83	9	2.8	2.789	2.8	2.7	0.001	0.033	2.7	2.8	2.8	2.8
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/24/83-10/22/83	9	1.3	1.311	1.4	1.2	0.004	0.06	1.2	1.3	1.35	1.4
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/24/83-10/22/83	9	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/24/83-10/22/83	12	3.5	3.458	3.6	3.2	0.012	0.108	3.26	3.4	3.5	3.6
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/24/83-10/22/83	12	2.3	2.292	2.4	2.1	0.012	0.108	2.1	2.225	2.4	2.4
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/24/83-10/22/83	4	1.25	1.225	1.4	1.	0.029	0.171	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/24/83-10/22/83	4	1.	0.975	1.1	0.8	0.023	0.15	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/24/83-10/22/83	12	42.	42.25	46.	39.	5.295	2.301	39.	40.25	44.5	45.7
82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	05/24/83-10/22/83	12	1.3	1.3	1.4	1.2	0.004	0.06	1.2	1.3	1.3	1.4

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

EPA Water Quality Criteria Analysis for Station: APIS0032

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	12	0	0.00	6	0	0.00							6	0	0.00
00400	PH	Fresh Chronic	9.	11	0	0.00	5	0	0.00							6	0	0.00
		Other-Lo Lim.	6.5	11	0	0.00	5	0	0.00							6	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	12	0	0.00	6	0	0.00							6	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	12	0	0.00	6	0	0.00							6	0	0.00
82295	CHLORIDE DISSOLVED AS CL IN WATER	Fresh Acute	860000.	12	0	0.00	6	0	0.00							6	0	0.00
		Drinking Water	250000.	12	0	0.00	6	0	0.00							6	0	0.00

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

Station Inventory for Station: APIS0033

NPS Station ID: APIS0033 LAT/LON: 46.926004/ -90.548393 Agency: 11NPSWRD Date Created: 04/04/98
Location: STOCKTON ISLAND LAGOON IN LAKE SUPERIOR FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/FWTLND STORET Station ID(s): APIS_UW_STOCKLG
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE STOCKTON ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON STOCKTON ISLAND LAGOON ON THE SOUTHEAST PART OF STOCKTON ISLAND. SAMPLES FOR THIS SITE WERE COLLECTED ON JUNE 30 AND SEPTEMBER 1 OF 1986; AND ON JUNE 24 AND OCTOBER 8 OF 1987. SAMPLES WERE ANALYZED FOR TEMPERATURE; DISSOLVED OXYGEN; CONDUCTIVITY; PH; AND ALKALINITY. THE RESULTS ARE IN "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE 1986-1988" BY MARY BALCER AND DENNIS MCCAULEY WITH THE CENTER FOR LAKE SUPERIOR ENVIRONMENTAL STUDIES; UNIVERSITY OF WISCONSIN-SUPERIOR (MARCH 1989). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/30/86-10/08/87	11	3.	2.636	6.	0.	5.655	2.378	0.	0.	4.	6.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/01/86-10/08/87	8	18.85	18.588	29.	7.	65.747	8.108	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/30/86-10/08/87	11	22.	23.364	30.	20.	18.855	4.342	20.	20.	30.	30.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	09/01/86-10/08/87	8	8.75	9.438	12.8	6.4	4.363	2.089	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	06/30/86-10/08/87	9	6.7	6.633	7.1	6.	0.11	0.332	6.	6.45	6.9	7.1
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/30/86-10/08/87	9	6.7	6.512	7.1	6.	0.127	0.356	6.	6.45	6.9	7.1
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/30/86-10/08/87	9	0.2	0.308	1.	0.079	0.079	0.28	0.079	0.129	0.357	1.
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/30/86-10/08/87	8	12.5	13.25	17.	11.	4.5	2.121	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0033

				Total	Exceed	Prop.	7/15-11/30			12/01-2/29			3/01-4/14			4/15-7/14		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	8	0	0.00	5	0	0.00							3	0	0.00
00406	PH, FIELD	Fresh Chronic	9.	9	0	0.00	4	0	0.00							5	0	0.00
		Other-Lo Lim.	6.5	9	4	0.44	4	2	0.50							5	2	0.40

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

Station Inventory for Station: APIS0034

NPS Station ID: APIS0034 | LAT/LON: 46.937059/ -90.549587 | Agency: 11NPSWRD | Date Created: 10/03/98
Location: STOCKTON ISLAND-STATION #7 | FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): APIS_USGS_7
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301 | Depth of Water: 0 | Aquifer:
Major Basin: LAKE SUPERIOR | Elevation: 0 | Water Body Id:
Minor Basin: MONTREAL | ECO Region:
RF1 Index: 04010301 | RF1 Mile Point: 0.000 | Distance from RF1: 13.80 | On/Off RF1:
RF3 Index: 04010301001007.02 | RF3 Mile Point: 10.66 | Distance from RF3: 1.27 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE STOCKTON ISLAND WI-ASHLAND CO. 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. STATION #7 IS AT STOCKTON ISLAND AT A STREAM AND IS LOCATED INSIDE APOSTLE ISLAND NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE USGS WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY W.J. ROSE (1988); PREPARED BY THE USGS. THE OBJECTIVES OF THE REPORT ARE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY DURING 1979-1984 WATER YEARS AND TO PROVIDEA QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE." LATITUDE AND LONGITUDE COORDINATE VALUES WERE OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP USING FIGURE 3 IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WI 54814 (TEL. 715-779-3397). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NPSWRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/17/84-07/17/84	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/07/80-07/17/84	2	0.005	0.005	0.009	0.	0.	0.006	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/84-07/17/84	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/17/84-07/17/84	1	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/17/84-07/17/84	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/17/84-07/17/84	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/84-07/17/84	1	0.501	0.501	0.501	0.501	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/17/84-07/17/84	1	8.	8.	8.	8.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0034

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									

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

EPA Water Quality Criteria Analysis for Station: APIS0034

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400 PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									

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

Station Inventory for Station: APIS0035

NPS Station ID: APIS0035 | LAT/LON: 46.912920/ -90.550477 | Agency: 11NPSWRD | Date Created: 04/04/98
Location: LAKE SUPERIOR IN PRESQUE ISLE HARBOR | FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE | STORET Station ID(s): APIS_UW_PHARSED
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 04010301 | Depth of Water: 0 | Aquifer:
Major Basin: LAKE SUPERIOR | Elevation: 0 | Water Body Id:
Minor Basin: MONTREAL | ECO Region:
RF1 Index: 04010301 | RF1 Mile Point: 0.000 | Distance from RF1: 13.80 | On/Off RF1:
RF3 Index: 04010301001007.02 | RF3 Mile Point: 10.66 | Distance from RF3: 1.27 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE STOCKTON ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON LAKE SUPERIOR INSIDE OF PRESQUE ISLE HARBOR. SEDIMENT SAMPLES FOR THIS SITE WERE COLLECTED ON JULY 31 1986 AND JULY 30 1987. SAMPLES WERE ANALYZED FOR SEVERAL CHEMICAL CONCENTRATIONS ON A DRY WEIGHT BASIS. VALUES ARE REPORTED AS THE MEAN OF 2 TO 3 REPLICATE SAMPLES. THE RESULTS ARE IN "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE 1986-1988" BY MARY BALCER AND DENNIS MCCAULEY WITH THE CENTER FOR LAKE SUPERIOR ENVIRONMENTAL STUDIES; UNIVERSITY OF WISCONSIN-SUPERIOR (MARCH 1989). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00553	OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,MG/KG	07/31/86-07/30/87	2 ##	23.	23.	25.	21.	8.	2.828	**	**	**	**
00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	07/31/86-07/30/87	2	54.85	54.85	69.7	40.	441.045	21.001	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/31/86-07/30/87	2	38.3	38.3	51.6	25.	353.78	18.809	**	**	**	**
61536	NITROGEN, AMMONIUM,SLUDGE,SOLID,DRY WT, AS N,MG/KG	07/31/86-07/30/87	2 ##	13.25	13.25	23.5	3.	210.125	14.496	**	**	**	**
81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	07/31/86-07/30/87	2	82.1	82.1	82.4	81.8	0.18	0.424	**	**	**	**

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

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

Station Inventory for Station: APIS0036

NPS Station ID: APIS0036 LAT/LON: 46.912642/ -90.550309 Agency: 11NPSWRD Date Created: 04/04/98
Location: LAKE SUPERIOR INSIDE PRESQUE ISLE HARBOR FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): APIS_UW_STOCKI
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE STOCKTON ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON LAKE SUPERIOR INSIDE PRESQUE ISLE HARBOR AT STOCKTON ISLAND. SAMPLES FOR THIS SITE WERE COLLECTED FROM 1986-1988. SAMPLES WERE ANALYZED FOR FECAL COLIFORM AND FECAL STREPTOCOCCUS. THE RESULTS ARE IN "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE 1986-1988" BY MARY BALCER AND DENNIS MCCAULEY WITH THE CENTER FOR LAKE SUPERIOR ENVIRONMENTAL STUDIES; UNIVERSITY OF WISCONSIN-SUPERIOR (MARCH 1989). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/13/86-08/23/88	84	2.	12.577	307.	0.5	1810.497	42.55	0.5	0.625	7.75	26.5
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/13/86-08/23/88	84	0.301	0.439	2.487	-0.301	0.438	0.662	-0.301	-0.226	0.889	1.423
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			2.749								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/13/86-08/23/88	83	186.	590.054	7200.	0.5	1308232.585	1143.78	21.	53.	560.	1870.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/13/86-08/23/88	83	2.27	2.211	3.857	-0.301	0.598	0.774	1.322	1.724	2.748	3.268
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			162.43								

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

EPA Water Quality Criteria Analysis for Station: APIS0036

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	84	2	0.02	36	1	0.03							48	1	0.02

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

Station Inventory for Station: APIS0037

NPS Station ID: APIS0037
LAT/LON: 46.935587/ -90.550698
Agency: 11NPSWRD
Date Created: 10/03/98
Location: STOCKTON ISLAND-STATION #6
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): APIS_USGS_6
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: MONTREAL
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE STOCKTON ISLAND WI-ASHLAND CO. 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. STATION #6 IS AT STOCKTON ISLAND AT A STREAM AND IS LOCATED INSIDE THE APOSTLE ISLAND NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE USGS WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY W.J. ROSE (1988); PREPARED BY THE USGS. THE OBJECTIVES OF THE REPORT ARE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY DURING 1979-1984 WATER YEARS AND TO PROVIDEA QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE." LATITUDE AND LONGITUDE COORDINATE VALUES WERE OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP USING FIGURE 3 IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WI 54814 (TEL. 715-779-3397). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NPSWRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/07/80-07/17/84	2	17.25	17.25	19.	15.5	6.125	2.475	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/07/80-07/17/84	2 ##	0.002	0.002	0.003	0.001	0.	0.001	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/80-07/17/84	2	36.5	36.5	43.	30.	84.5	9.192	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/07/80-07/17/84	2	4.6	4.6	6.6	2.6	8.	2.828	**	**	**	**
00400	PH (STANDARD UNITS)	08/07/80-07/17/84	2	6.4	6.4	6.8	6.	0.32	0.566	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/07/80-07/17/84	2	6.237	6.237	6.8	6.	0.373	0.611	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/07/80-07/17/84	2	0.579	0.579	1.	0.158	0.354	0.595	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/17/84-07/17/84	1	12.	12.	12.	12.	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	08/07/80-08/07/80	1	43.	43.	43.	43.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	08/07/80-08/07/80	1	1.633	1.633	1.633	1.633	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			43.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/07/80-08/07/80	1	5200.	5200.	5200.	5200.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/07/80-08/07/80	1	3.716	3.716	3.716	3.716	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			5200.								

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

EPA Water Quality Criteria Analysis for Station: APIS0037

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	1	0.50	2	1	0.50									
00400	PH	Fresh Chronic	9.	2	0	0.00	2	0	0.00									
		Other-Lo Lim.	6.5	2	1	0.50	2	1	0.50									
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0038

NPS Station ID: APIS0038 LAT/LON: 46.912227/ -90.550837 Agency: 112WRD Date Created: 11/07/81
Location: LAKE SUPERIOR AT DOCK ON PRESQUE ISLE BAY, WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 465444090330300
RMI-Indexes: Within Park Boundary: No
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: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/81-09/09/81	2	16.5	16.5	17.	16.	0.5	0.707	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/23/81-07/23/81	1	95.	95.	95.	95.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/09/81-09/09/81	1	9.3	9.3	9.3	9.3	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/81-09/09/81	1	97.	97.	97.	97.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/23/81-07/23/81	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/23/81-07/23/81	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/23/81-07/23/81	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/81-07/23/81	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	07/23/81-09/09/81	2	2.5	2.5	4.	1.	4.5	2.121	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	07/23/81-09/09/81	2	0.301	0.301	0.602	0.	0.181	0.426	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			2.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/23/81-09/09/81	2	23.	23.	37.	9.	392.	19.799	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/23/81-09/09/81	2	1.261	1.261	1.568	0.954	0.188	0.434	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			18.248								
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/23/81-07/23/81	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0038

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: APIS0039

NPS Station ID: APIS0039 LAT/LON: 46.922420/ -90.550837 Agency: 11NPSWRD Date Created: 03/21/98
Location: LAGOON ON SOUTHEAST PART OF STOCKTON ISLAND FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/FWTLND STORET Station ID(s): APIS_STOCK_LAG
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE STOCKTON ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON A LAGOON ON THE SOUTHEAST PART OF STOCKTON ISLAND. SAMPLES FOR THIS SITE WERE COLLECTED MONTHLY OVER THE SUMMER OF 1996. SAMPLES WERE ANALYZED FOR PHYSICAL PARAMETERS AND NUTRIENT CONCENTRATIONS. THE RESULTS ARE IN "LAKE SUPERIOR FOOD WEB - APOSTLE ISLANDS ONRW" BY LAKE SUPERIOR ECOSYSTEM RESEARCH CENTER; MICHIGAN TECHNOLOGY UNIVERSITY (JUNE 1997). THE DATA WERE RECEIVED IN DIGITAL FORMAT FROM NATURAL RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE. LAT/LONG COORDINATES ARE THE CENTROID OF THREE LORAN READINGS (1 FOR EACH MONTH SAMPLED). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/10/96-08/20/96	39	4.	3.821	7.	0.	4.824	2.196	0.3	2.	6.	7.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/10/96-08/20/96	30	17.75	17.653	23.5	10.1	12.999	3.605	12.62	14.925	20.45	23.11
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	06/10/96-08/20/96	30	80.	75.667	80.	60.	52.989	7.279	60.	70.	80.	80.
00078	TRANSPARENCY, SECCHI DISC (METERS)	06/10/96-08/20/96	3	0.76	0.76	1.14	0.38	0.144	0.38	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/10/96-08/20/96	30	45.	50.	78.	23.	312.966	17.691	23.	44.	65.5	76.8
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/10/96-08/20/96	30	1.75	3.338	11.5	0.05	12.897	3.591	0.06	0.08	5.95	9.95
00406	PH, FIELD, STANDARD UNITS SU	06/10/96-08/20/96	30	5.86	5.781	6.49	4.83	0.199	0.446	4.896	5.565	6.138	6.334
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/10/96-08/20/96	30	5.86	5.523	6.49	4.83	0.267	0.517	4.896	5.565	6.137	6.334
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/10/96-08/20/96	30	1.382	2.999	14.791	0.324	16.942	4.116	0.464	0.729	2.723	12.776
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/10/96-08/20/96	9	0.01	0.014	0.03	0.006	0.	0.008	0.006	0.008	0.02	0.03
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/10/96-08/20/96	9	0.01	0.094	0.76	0.005	0.062	0.25	0.005	0.005	0.025	0.76
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/10/96-08/20/96	9	0.5	0.497	1.	0.02	0.138	0.371	0.02	0.075	0.85	1.
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/10/96-08/20/96	3	0.2	0.333	0.7	0.1	0.103	0.321	**	**	**	**
46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/10/96-08/20/96	30	312.5	274.7	415.	0.	13392.01	115.724	59.7	195.5	334.25	412.
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/10/96-08/20/96	30	29.	32.1	51.	15.	127.886	11.309	15.	28.	41.25	49.8
70971	LIGHT, ATTENUATION COEFFICIENT (ALPHA/M)	06/10/96-08/20/96	2	3.892	3.892	6.81	0.973	17.035	4.127	**	**	**	**
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	06/10/96-08/20/96	9 ##	0.005	0.061	0.2	0.005	0.007	0.086	0.005	0.005	0.16	0.2
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/10/96-08/20/96	30	8.65	6.673	13.4	0.	20.48	4.525	0.	1.	10.1	11.4
82127	WIND SPEED KNOTS	06/10/96-08/20/96	30	0.	1.6	8.	0.	8.938	2.99	0.	0.	2.	8.

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

EPA Water Quality Criteria Analysis for Station: APIS0039

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	30	18	0.60	21	14	0.67							9	4	0.44
00406	PH, FIELD	Fresh Chronic	9.	30	0	0.00	21	0	0.00							9	0	0.00
		Other-Lo Lim.	6.5	30	30	1.00	21	21	1.00							9	9	1.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	9	0	0.00	3	0	0.00							6	0	0.00
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	30	0	0.00	21	0	0.00							9	0	0.00

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

Station Inventory for Station: APIS0040

NPS Station ID: APIS0040 LAT/LON: 46.912866/ -90.551531 Agency: 11NPSWRD Date Created: 04/04/98
Location: LAKE SUPERIOR OUTSIDE OF PRESQUE ISLE HARBOR FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): APIS_UW_STOCKO
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE STOCKTON ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON LAKE SUPERIOR APPROXIMATELY 200 FEET OUTSIDE PRESQUE ISLE HARBOR AT STOCKTON ISLAND. SAMPLES FOR THIS SITE WERE COLLECTED FROM 1986-1988. SAMPLES WERE ANALYZED FOR FECAL COLIFORM AND FECAL STREPTOCOCCUS. THE RESULTS ARE IN "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE 1986-1988" BY MARY BALCER AND DENNIS MCCAULEY WITH THE CENTER FOR LAKE SUPERIOR ENVIRONMENTAL STUDIES; UNIVERSITY OF WISCONSIN-SUPERIOR (MARCH 1989). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/13/86-08/09/88	82 ##	0.5	2.896	57.	0.5	61.634	7.851	0.5	0.5	2.	5.7
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/13/86-08/09/88	82 ##	-0.301	0.022	1.756	-0.301	0.23	0.48	-0.301	-0.301	0.301	0.754
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.052								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/13/86-08/09/88	80	209.5	799.988	5900.	0.5	1820070.766	1349.1	10.5	53.	832.5	3182.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/13/86-08/09/88	80	2.321	2.238	3.771	-0.301	0.859	0.927	1.018	1.724	2.92	3.502
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			173.11								

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

EPA Water Quality Criteria Analysis for Station: APIS0040

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	82	0	0.00	34	0	0.00							48	0	0.00

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

Station Inventory for Station: APIS0041

NPS Station ID: APIS0041
LAT/LON: 46.913616/ -90.551670
Agency: 112WRD
Date Created: 01/23/82
Location: PRESQUE ISLE DOCK AT STOCKTON ISLAND
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 465449090330601
RMI-Indexes:
Within Park Boundary: No
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: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00557	OIL & GREASE,SED,DRY WT,FREON EXTR-GRAV METH,MG/KG	09/09/81-11/02/83	4 ##	500.	500.	500.	500.	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	09/09/81-11/02/83	4	4.5	107.825	420.	2.3	43313.623	208.119	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	09/09/81-11/02/83	4	496.5	638.25	1400.	160.	341665.583	584.522	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	09/09/81-11/02/83	4	24.5	112.25	390.	10.	34454.917	185.62	**	**	**	**

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

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

Station Inventory for Station: APIS0042

NPS Station ID: APIS0042
LAT/LON: 46.928254/ -90.552616
Agency: 11NPSWRD
Date Created: 10/03/98
Location: STOCKTON ISLAND-STATION #8
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): APIS_USGS_8
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: MONTREAL
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE STOCKTON ISLAND WI-ASHLAND CO. 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. STATION #8 IS AT STOCKTON ISLAND AT A STREAM AND IS LOCATED INSIDE APOSTLE ISLAND NATIONAL LAKESHORE BOUNDARIES. THE VELOCITY WAS TOO SLOW TO MEASURE AT THE SITE ON 8/8/80 BECAUSE OF BACKWATER FROM LAKE SUPERIOR. DATA ARE FROM THE USGS WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY W.J. ROSE (1988). THE OBJECTIVE OF THE REPORT IS "TO PROVIDE A QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE" FOR 1979-1984 WATER YEARS. LATITUDE AND LONGITUDE COORDINATE VALUES WERE OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP USING FIGURE 3 IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WI 54814 (TEL. 715-779-3397). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NPSWRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/08/80-07/17/84	2	19.35	19.35	22.	16.7	14.045	3.748	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/08/80-07/17/84	2	26.	26.	28.	24.	8.	2.828	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/08/80-07/17/84	2	3.1	3.1	3.8	2.4	0.98	0.99	**	**	**	**
00400	PH (STANDARD UNITS)	08/08/80-07/17/84	2	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/08/80-07/17/84	2	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/08/80-07/17/84	2	2.512	2.512	2.512	2.512	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/17/84-07/17/84	1	4.	4.	4.	4.	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	08/08/80-08/08/80	1	4.	4.	4.	4.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	08/08/80-08/08/80	1	0.602	0.602	0.602	0.602	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			4.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/08/80-08/08/80	1	114.	114.	114.	114.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/08/80-08/08/80	1	2.057	2.057	2.057	2.057	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			114.								

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

EPA Water Quality Criteria Analysis for Station: APIS0042

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	2	1.00	2	2	1.00									
00400	PH	Fresh Chronic	9.	2	0	0.00	2	0	0.00									
		Other-Lo Lim.	6.5	2	2	1.00	2	2	1.00									
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0043

NPS Station ID: APIS0043
LAT/LON: 46.914837/ -90.552921
Agency: 11NPSWRD
Date Created: 04/04/98
Location: LAKE SUPERIOR IN PRESQUE ISLE BAY
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): APIS_UW_PBAYSED
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: MONTREAL
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE STOCKTON ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON LAKE SUPERIOR IN PRESQUE ISLE BAY APPROXIMATELY 1/4 MILE NORTHWEST OF PRESQUE ISLE HARBOR. SEDIMENT SAMPLES FOR THIS SITE WERE COLLECTED ON JULY 22 1986 AND AUGUST 14 1987. SAMPLES WERE ANALYZED FOR SEVERAL CHEMICAL CONCENTRATIONS ON A DRY WEIGHT BASIS. VALUES ARE REPORTED AS THE MEAN OF 2 TO 3 REPLICATE SAMPLES. THE RESULTS ARE IN "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE 1986-1988" BY MARY BALCER AND DENNIS MCCAULEY WITH THE CENTER FOR LAKE SUPERIOR ENVIRONMENTAL STUDIES; UNIVERSITY OF WISCONSIN-SUPERIOR (MARCH 1989). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/22/86-08/14/87	2	223.5	223.5	277.	170.	5724.5	75.66	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/22/86-08/14/87	2 ##	0.03	0.03	0.05	0.01	0.001	0.028	**	**	**	**
81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	07/22/86-08/14/87	2	64.1	64.1	73.1	55.1	162.	12.728	**	**	**	**
81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	07/22/86-08/14/87	2	6723.5	6723.5	6847.	6600.	30504.5	174.655	**	**	**	**

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

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

Station Inventory for Station: APIS0044

NPS Station ID: APIS0044 LAT/LON: 46.910837/ -90.553059 Agency: 112WRD Date Created: 04/09/83
Location: PRESQUE ISLE BAY SITE 9 NEAR STOCKTON ISLAND, WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 465439090331101
RMI-Indexes: Within Park Boundary: No
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: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/27/82-07/27/82	2	5.5	5.5	11.	0.	60.5	7.778	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-07/27/82	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-07/27/82	1	75.	75.	75.	75.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/27/82-07/27/82	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/27/82-07/27/82	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/82-07/27/82	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/27/82-07/27/82	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/27/82-07/27/82	1	320.	320.	320.	320.	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/82-07/27/82	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/27/82-07/27/82	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/27/82-07/27/82	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/27/82-07/27/82	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/27/82-07/27/82	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/27/82-07/27/82	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/27/82-07/27/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/27/82-07/27/82	1	4.	4.	4.	4.	0.	0.	**	**	**	**
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/27/82-07/27/82	1	67.	67.	67.	67.	0.	0.	**	**	**	**
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/27/82-07/27/82	1	98.	98.	98.	98.	0.	0.	**	**	**	**
80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	07/27/82-07/27/82	1	99.	99.	99.	99.	0.	0.	**	**	**	**
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	07/27/82-07/27/82	1	100.	100.	100.	100.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0044

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0045

NPS Station ID: APIS0045 LAT/LON: 46.915004/ -90.553059 Agency: 112WRD Date Created: 04/09/83
Location: PRESQUE ISLE BAY SITE 8 NEAR STOCKTON ISLAND, WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 465454090331101
RMI-Indexes: Within Park Boundary: No
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: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/27/82-07/27/82	2	5.5	5.5	11.	0.	60.5	7.778	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-07/27/82	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-07/27/82	1	75.	75.	75.	75.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/27/82-07/27/82	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/27/82-07/27/82	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/82-07/27/82	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/27/82-07/27/82	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/27/82-07/27/82	1	230.	230.	230.	230.	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/82-07/27/82	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/27/82-07/27/82	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/27/82-07/27/82	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/27/82-07/27/82	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/27/82-07/27/82	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/27/82-07/27/82	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/27/82-07/27/82	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/27/82-07/27/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/27/82-07/27/82	1	4.	4.	4.	4.	0.	0.	**	**	**	**
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/27/82-07/27/82	1	80.	80.	80.	80.	0.	0.	**	**	**	**
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/27/82-07/27/82	1	100.	100.	100.	100.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0045

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0046

NPS Station ID: APIS0046 LAT/LON: 46.912615/ -90.554338 Agency: 11NPSWRD Date Created: 04/04/98
Location: LAKE SUPERIOR DUE WEST OF PRESQUE ISLE HARBOR FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): APIS_UW_STOCKC
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE STOCKTON ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON LAKE SUPERIOR APPROXIMATELY 1/4 MILE DUE WEST OF PRESQUE ISLE HARBOR. SAMPLES FOR THIS SITE WERE COLLECTED IN SUMMER OF 1988. SAMPLES WERE ANALYZED FOR FECAL COLIFORM AND FECAL STREPTOCOCCUS. THE RESULTS ARE IN "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE 1986-1988" BY MARY BALCER AND DENNIS MCCAULEY WITH THE CENTER FOR LAKE SUPERIOR ENVIRONMENTAL STUDIES; UNIVERSITY OF WISCONSIN-SUPERIOR (MARCH 1989). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/18/88-08/09/88	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/18/88-08/09/88	3 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			0.5								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/18/88-08/09/88	3 ##	0.5	2.	5.	0.5	6.75	2.598	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/18/88-08/09/88	3 ##	-0.301	0.032	0.699	-0.301	0.333	0.577	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			1.077								

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

EPA Water Quality Criteria Analysis for Station: APIS0046

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	3	0	0.00	3	0	0.00									

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

Station Inventory for Station: APIS0047

NPS Station ID: APIS0047
LAT/LON: 46.915282/ -90.554282
Agency: 11NPSWRD
Date Created: 04/04/98
Location: LAKE SUPERIOR IN PRESQUE ISLE BAY
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): APIS_UW_PRESQWQ
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: MONTREAL
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE STOCKTON ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON LAKE SUPERIOR APPROXIMATELY 1/2 MILE NORTHWEST OF PRESQUE ISLE HARBOR IN PRESQUE ISLE BAY. SAMPLES FOR THIS SITE WERE COLLECTED AUGUST 12 1986; JULY 30 1987; AND SEPTEMBER 14 1987. SAMPLES WERE ANALYZED FOR TEMPERATURE; DISSOLVED OXYGEN; PH; CONDUCTIVITY; ALKALINITY; TOTAL ORAGANIC CARBON; TOTAL PHOSPHOROUS; AND TOTAL MERCURY. THE RESULTS ARE IN "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE 1986-1988" BY MARY BALCER AND DENNIS MCCAULEY WITH THE CENTER FOR LAKE SUPERIOR ENVIRONMENTAL STUDIES; UNIVERSITY OF WISCONSIN-SUPERIOR (MARCH 1989). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/12/86-09/14/87	9	26.	24.889	59.	0.	513.361	22.657	0.	0.	44.5	59.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/12/86-09/14/87	9	15.8	15.956	17.8	14.7	0.863	0.929	14.7	15.25	16.55	17.8
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/86-09/14/87	8	75.5	75.125	82.	68.	32.125	5.668	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/12/86-09/14/87	9	8.9	9.022	10.4	6.2	1.797	1.341	6.2	8.45	10.3	10.4
00406	PH, FIELD, STANDARD UNITS SU	08/12/86-09/14/87	6	7.45	7.45	8.1	6.8	0.507	0.712	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/12/86-09/14/87	6	7.08	7.08	8.1	6.8	0.671	0.819	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/12/86-09/14/87	6	0.083	0.083	0.158	0.008	0.007	0.082	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/12/86-08/12/86	3	43.	42.667	43.	42.	0.333	0.577	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/12/86-09/14/87	9	0.007	0.019	0.105	0.005	0.001	0.032	0.005	0.006	0.014	0.105
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/12/86-09/14/87	9	2.	1.944	2.6	1.2	0.243	0.493	1.2	1.45	2.4	2.6
71900	MERCURY, TOTAL (UG/L AS HG)	08/12/86-09/14/87	8 ##	0.075	0.082	0.2	0.02	0.003	0.057	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0047

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	9	0	0.00	9	0	0.00									
00406	PH, FIELD	Fresh Chronic	9.	6	0	0.00	6	0	0.00									
		Other-Lo Lim.	6.5	6	0	0.00	6	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	8	0	0.00	8	0	0.00									
		Drinking Water	2.	8	0	0.00	8	0	0.00									

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

Station Inventory for Station: APIS0048

NPS Station ID: APIS0048 LAT/LON: 46.907642/ -90.555727 Agency: 11NPSWRD Date Created: 04/04/98
Location: LAKE SUPERIOR SOUTHWEST OF PRESQUE ISLE HARBOR FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): APIS_UW_STOCKE
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE STOCKTON ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON LAKE SUPERIOR APPROXIMATELY 1/2 MILE SOUTHWEST OF PRESQUE ISLE HARBOR. SAMPLES FOR THIS SITE WERE COLLECTED IN SUMMER OF 1988. SAMPLES WERE ANALYZED FOR FECAL COLIFORM AND FECAL STREPTOCOCCUS. THE RESULTS ARE IN "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE 1986-1988" BY MARY BALCER AND DENNIS MCCAULEY WITH THE CENTER FOR LAKE SUPERIOR ENVIRONMENTAL STUDIES; UNIVERSITY OF WISCONSIN-SUPERIOR (MARCH 1989). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/18/88-08/09/88	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/18/88-08/09/88	3 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			0.5								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/18/88-08/09/88	3 ##	0.5	1.	2.	0.5	0.75	0.866	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/18/88-08/09/88	3 ##	-0.301	-0.1	0.301	-0.301	0.121	0.348	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			0.794								

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

EPA Water Quality Criteria Analysis for Station: APIS0048

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	3	0	0.00	3	0	0.00									

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

Station Inventory for Station: APIS0049

NPS Station ID: APIS0049 LAT/LON: 46.916920/ -90.556254 Agency: 11NPSWRD Date Created: 04/04/98
Location: LAKE SUPERIOR NORTHWEST OF PRESQUE ISLE HARBOR FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): APIS_UW_STOCKA
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE STOCKTON ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON LAKE SUPERIOR APPROXIMATELY 1/2 MILE NORTHWEST OF PRESQUE ISLE HARBOR. SAMPLES FOR THIS SITE WERE COLLECTED IN SUMMER OF 1988. SAMPLES WERE ANALYZED FOR FECAL COLIFORM AND FECAL STREPTOCOCCUS. THE RESULTS ARE IN "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE 1986-1988" BY MARY BALCER AND DENNIS MCCAULEY WITH THE CENTER FOR LAKE SUPERIOR ENVIRONMENTAL STUDIES; UNIVERSITY OF WISCONSIN-SUPERIOR (MARCH 1989). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0049

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/18/88-08/09/88	3 ##	0.5	1.333	3.	0.5	2.083	1.443	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/18/88-08/09/88	3 ##	-0.301	-0.042	0.477	-0.301	0.202	0.449	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			0.909								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/18/88-08/09/88	3 ##	0.5	5.	14.	0.5	60.75	7.794	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/18/88-08/09/88	3 ##	-0.301	0.181	1.146	-0.301	0.698	0.836	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			1.518								

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

EPA Water Quality Criteria Analysis for Station: APIS0049

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	3	0	0.00	3	0	0.00									

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

Station Inventory for Station: APIS0050

NPS Station ID: APIS0050
LAT/LON: 46.932642/ -90.556754
Agency: 11NPSWRD
Date Created: 10/03/98
Location: STOCKTON ISLAND-STATION #5
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): APIS_USGS_5
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: MONTREAL
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE STOCKTON ISLAND WI-ASHLAND CO. 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. STATION #5 IS AT STOCKTON ISLAND AT A STREAM AND IS LOCATED INSIDE APOSTLE ISLAND NATIONAL LAKESHORE BOUNDARIES. THE SITE WAS SAMPLED IN A BEAVER POND. DATA ARE FROM THE USGS WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY W.J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVE OF THE REPORT IS "TO PROVIDE A QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE" FOR 1979-1984 WATER YEARS. LATITUDE AND LONGITUDE COORDINATE VALUES WERE OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP USING FIGURE 3 IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WI 54814 (TEL. 715-779-3397). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NPSWRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/07/80-08/07/80	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/07/80-08/07/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/80-08/07/80	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/07/80-08/07/80	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/07/80-08/07/80	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/07/80-08/07/80	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/07/80-08/07/80	1	0.251	0.251	0.251	0.251	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	08/07/80-08/07/80	1	1.	1.	1.	1.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	08/07/80-08/07/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			1.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/07/80-08/07/80	1	14.	14.	14.	14.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/07/80-08/07/80	1	1.146	1.146	1.146	1.146	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			14.								

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

EPA Water Quality Criteria Analysis for Station: APIS0050

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0051

NPS Station ID: APIS0051 LAT/LON: 46.918615/ -90.556948 Agency: 112WRD Date Created: 04/09/83
Location: PRESQUE ISLE BAY SITE 5 NEAR STOCKTON ISLAND, WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 465507090332501
RMI-Indexes: Within Park Boundary: No
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: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/27/82-07/27/82	2	5.5	5.5	11.	0.	60.5	7.778	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-07/27/82	1	80.	80.	80.	80.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/27/82-07/27/82	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/27/82-07/27/82	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/82-07/27/82	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/27/82-07/27/82	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/27/82-07/27/82	1	450.	450.	450.	450.	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/82-07/27/82	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/27/82-07/27/82	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/27/82-07/27/82	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/27/82-07/27/82	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/27/82-07/27/82	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/27/82-07/27/82	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/27/82-07/27/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/27/82-07/27/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/27/82-07/27/82	1	50.	50.	50.	50.	0.	0.	**	**	**	**
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/27/82-07/27/82	1	99.	99.	99.	99.	0.	0.	**	**	**	**
80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	07/27/82-07/27/82	1	100.	100.	100.	100.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0051

Parameter				Total	Exceed	Prop.	7/15-11/30			12/01-2/29			3/01-4/14			4/15-7/14		
		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0052

NPS Station ID: APIS0052 LAT/LON: 46.912504/ -90.557227 Agency: 112WRD Date Created: 04/09/83
Location: PRESQUE ISLE BAY SITE 7 NEAR STOCKTON ISLAND, WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 465445090332601
RMI-Indexes: Within Park Boundary: No
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: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/27/82-07/27/82	2	17.	17.	34.	0.	578.	24.042	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-07/27/82	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-07/27/82	1	70.	70.	70.	70.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/27/82-07/27/82	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/27/82-07/27/82	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/82-07/27/82	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/27/82-07/27/82	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/27/82-07/27/82	1	600.	600.	600.	600.	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/82-07/27/82	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/27/82-07/27/82	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/27/82-07/27/82	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/27/82-07/27/82	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/27/82-07/27/82	1	4.8	4.8	4.8	4.8	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/27/82-07/27/82	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/27/82-07/27/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/27/82-07/27/82	1	6.	6.	6.	6.	0.	0.	**	**	**	**
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/27/82-07/27/82	1	23.	23.	23.	23.	0.	0.	**	**	**	**
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/27/82-07/27/82	1	88.	88.	88.	88.	0.	0.	**	**	**	**
80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	07/27/82-07/27/82	1	98.	98.	98.	98.	0.	0.	**	**	**	**
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	07/27/82-07/27/82	1	99.	99.	99.	99.	0.	0.	**	**	**	**
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	07/27/82-07/27/82	1	100.	100.	100.	100.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0052

Parameter				Total	Exceed	Prop.	7/15-11/30			12/01-2/29			3/01-4/14			4/15-7/14		
		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0053

NPS Station ID: APIS0053 LAT/LON: 46.921670/ -90.561392 Agency: 112WRD Date Created: 04/09/83
Location: PRESQUE ISLE BAY SITE 4 NEAR STOCKTON ISLAND, WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 465518090334101
RMI-Indexes: Within Park Boundary: No
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: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/27/82-07/27/82	2	7.5	7.5	15.	0.	112.5	10.607	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-07/27/82	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-07/27/82	1	80.	80.	80.	80.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/27/82-07/27/82	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/27/82-07/27/82	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/82-07/27/82	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/27/82-07/27/82	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/27/82-07/27/82	1	510.	510.	510.	510.	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/82-07/27/82	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/27/82-07/27/82	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/27/82-07/27/82	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/27/82-07/27/82	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/27/82-07/27/82	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/27/82-07/27/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/27/82-07/27/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/27/82-07/27/82	1	27.	27.	27.	27.	0.	0.	**	**	**	**
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/27/82-07/27/82	1	98.	98.	98.	98.	0.	0.	**	**	**	**
80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	07/27/82-07/27/82	1	100.	100.	100.	100.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0053

			Total	Exceed	Prop.	----------7/15-11/30----------			----------12/01-2/29----------			----------3/01-4/14----------			----------4/15-7/14----------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400 PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0054

NPS Station ID: APIS0054 LAT/LON: 46.911615/ -90.561559 Agency: 11NPSWRD Date Created: 03/21/98
Location: LAKE SUPERIOR 0.5 MILES SOUTH OF PRESQUE ISLE FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): APIS_PRESQUE_IS
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE STOCKTON ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON LAKE SUPERIOR APPROXIMATELY 0.5 MILES SOUTH OF PRESQUE ISLE. SAMPLES FOR THIS SITE WERE COLLECTED MONTHLY OVER THE SUMMER OF 1996. SAMPLES WERE ANALYZED FOR PHYSICAL PARAMETERS AND NUTRIENT CONCENTRATIONS. THE RESULTS ARE IN "LAKE SUPERIOR FOOD WEB - APOSTLE ISLANDS ONRW" BY LAKE SUPERIOR ECOSYSTEM RESEARCH CENTER; MICHIGAN TECHNOLOGY UNIVERSITY (JUNE 1997). THE DATA WERE RECEIVED IN DIGITAL FORMAT FROM NATURAL RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE. LAT/LONG COORDINATES ARE THE CENTROID OF THREE LORAN READINGS (1 FOR EACH MONTH SAMPLED). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0054

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/11/96-08/21/96	52	33.	44.712	180.	0.	2117.229	46.013	4.2	13.75	52.75	126.2
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/11/96-08/21/96	43	6.3	8.907	18.3	3.7	30.773	5.547	3.84	4.9	11.3	18.3
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	06/11/96-08/21/96	43	60.	63.14	71.7	60.	23.359	4.833	60.	60.	62.	71.7
00078	TRANSPARENCY, SECCHI DISC (METERS)	06/11/96-08/21/96	3	9.91	9.71	11.6	7.62	3.99	1.998	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/11/96-08/21/96	43	96.	97.814	104.	95.	12.536	3.541	95.	95.	98.	104.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/11/96-08/21/96	43	12.3	11.656	13.5	9.6	1.443	1.201	9.6	11.3	12.4	12.56
00406	PH, FIELD, STANDARD UNITS SU	06/11/96-08/21/96	43	7.28	7.526	7.95	7.12	0.118	0.343	7.21	7.22	7.92	7.94
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/11/96-08/21/96	43	7.28	7.411	7.95	7.12	0.131	0.363	7.21	7.22	7.92	7.94
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/11/96-08/21/96	43	0.052	0.039	0.076	0.011	0.001	0.024	0.011	0.012	0.06	0.062
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/11/96-08/21/96	9	0.4	0.378	0.5	0.2	0.007	0.083	0.2	0.35	0.4	0.5
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/11/96-08/21/96	9 ##	0.005	0.008	0.03	0.005	0.	0.008	0.005	0.005	0.008	0.03
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/11/96-08/21/96	9	1.9	1.956	3.	1.1	0.498	0.706	1.1	1.2	2.6	3.
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/11/96-08/21/96	3	0.2	0.167	0.2	0.1	0.003	0.058	**	**	**	**
46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/11/96-08/21/96	43	341.	326.395	351.	302.	340.721	18.459	304.	306.	342.	344.
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/11/96-08/21/96	43	61.	62.628	67.	61.	5.144	2.268	61.	61.	63.	67.
70971	LIGHT, ATTENUATION COEFFICIENT (ALPHA/M)	06/11/96-08/21/96	2	0.265	0.265	0.334	0.196	0.01	0.098	**	**	**	**
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	06/11/96-08/21/96	9 ##	0.005	0.006	0.01	0.005	0.	0.002	0.005	0.005	0.005	0.01
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/11/96-08/21/96	43 ##	0.	2.079	7.7	0.	9.267	3.044	0.	0.	3.	7.6
82127	WIND SPEED KNOTS	06/11/96-08/21/96	43	5.	4.163	5.	1.	2.711	1.647	1.	5.	5.	5.

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

EPA Water Quality Criteria Analysis for Station: APIS0054

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	43	0	0.00	10	0	0.00							33	0	0.00
00406	PH, FIELD	Fresh Chronic	9.	43	0	0.00	10	0	0.00							33	0	0.00
		Other-Lo Lim.	6.5	43	0	0.00	10	0	0.00							33	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	9	0	0.00	3	0	0.00							6	0	0.00
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	43	0	0.00	10	0	0.00							33	0	0.00

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

Station Inventory for Station: APIS0055

NPS Station ID: APIS0055 LAT/LON: 46.915837/ -90.561392 Agency: 112WRD Date Created: 04/09/83
Location: PRESQUE ISLE BAY SITE 6 NEAR STOCKTON ISLAND, WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 465457090334101
RMI-Indexes: Within Park Boundary: No
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: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/27/82-07/27/82	2	22.	22.	44.	0.	968.	31.113	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-07/27/82	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-07/27/82	1	80.	80.	80.	80.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/27/82-07/27/82	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/27/82-07/27/82	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/82-07/27/82	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/27/82-07/27/82	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/27/82-07/27/82	1	790.	790.	790.	790.	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/82-07/27/82	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/27/82-07/27/82	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/27/82-07/27/82	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/27/82-07/27/82	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/27/82-07/27/82	1	4.2	4.2	4.2	4.2	0.	0.	**	**	**	**
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/27/82-07/27/82	1	5.	5.	5.	5.	0.	0.	**	**	**	**
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/27/82-07/27/82	1	42.	42.	42.	42.	0.	0.	**	**	**	**
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/27/82-07/27/82	1	76.	76.	76.	76.	0.	0.	**	**	**	**
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/27/82-07/27/82	1	96.	96.	96.	96.	0.	0.	**	**	**	**
80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	07/27/82-07/27/82	1	99.	99.	99.	99.	0.	0.	**	**	**	**
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	07/27/82-07/27/82	1	100.	100.	100.	100.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0055

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0056

NPS Station ID: APIS0056
LAT/LON: 46.931671/ -90.562477
Agency: 11NPSWRD
Date Created: 10/03/98
Location: STOCKTON ISLAND-STATION #4
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): APIS_USGS_4
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: MONTREAL
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE STOCKTON ISLAND WI-ASHLAND CO. 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. STATION #4 IS AT STOCKTON ISLAND AT A STREAM AND IS LOCATED INSIDE APOSTLE ISLAND NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE USGS WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY W.J. ROSE (1988); PREPARED BY THE USGS. THE OBJECTIVES OF THE REPORT ARE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY DURING 1979-1984 WATER YEARS AND TO PROVIDEA QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE." LATITUDE AND LONGITUDE COORDINATE VALUES WERE OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP USING FIGURE 3 IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WI 54814 (TEL. 715-779-3397). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NPSWRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0056

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/07/80-08/07/80	1	20.5	20.5	20.5	20.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/07/80-08/07/80	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/80-08/07/80	1	42.	42.	42.	42.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/07/80-08/07/80	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/07/80-08/07/80	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/07/80-08/07/80	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/07/80-08/07/80	1	0.398	0.398	0.398	0.398	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	08/07/80-08/07/80	1	118.	118.	118.	118.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	08/07/80-08/07/80	1	2.072	2.072	2.072	2.072	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			118.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/07/80-08/07/80	1	300.	300.	300.	300.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/07/80-08/07/80	1	2.477	2.477	2.477	2.477	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			300.								

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

EPA Water Quality Criteria Analysis for Station: APIS0056

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0057

NPS Station ID: APIS0057 LAT/LON: 46.923615/ -90.567226 Agency: 112WRD Date Created: 04/09/83
Location: PRESQUE ISLE BAY SITE 1 NEAR STOCKTON ISLAND, WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 465525090340201
RMI-Indexes: Within Park Boundary: No
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: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/27/82-07/27/82	2	5.	5.	10.	0.	50.	7.071	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-07/27/82	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-07/27/82	1	80.	80.	80.	80.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/27/82-07/27/82	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/27/82-07/27/82	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/82-07/27/82	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/27/82-07/27/82	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/27/82-07/27/82	1	720.	720.	720.	720.	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/82-07/27/82	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/27/82-07/27/82	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/27/82-07/27/82	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/27/82-07/27/82	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/27/82-07/27/82	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/27/82-07/27/82	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/27/82-07/27/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/27/82-07/27/82	1	1.	1.	1.	1.	0.	0.	**	**	**	**
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/27/82-07/27/82	1	21.	21.	21.	21.	0.	0.	**	**	**	**
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/27/82-07/27/82	1	98.	98.	98.	98.	0.	0.	**	**	**	**
80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	07/27/82-07/27/82	1	100.	100.	100.	100.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0057

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0058

NPS Station ID: APIS0058 LAT/LON: 46.918615/ -90.568338 Agency: 112WRD Date Created: 04/09/83
Location: PRESQUE ISLE BAY SITE 3 NEAR STOCKTON ISLAND, WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 465507090340601
RMI-Indexes: Within Park Boundary: No
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: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0058

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/27/82-07/27/82	2	39.5	39.5	79.	0.	3120.5	55.861	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-07/27/82	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-07/27/82	1	70.	70.	70.	70.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/27/82-07/27/82	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/27/82-07/27/82	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/82-07/27/82	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/27/82-07/27/82	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/27/82-07/27/82	1	1300.	1300.	1300.	1300.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/27/82-07/27/82	1	86.	86.	86.	86.	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/27/82-07/27/82	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/27/82-07/27/82	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/27/82-07/27/82	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	07/27/82-07/27/82	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/27/82-07/27/82	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/27/82-07/27/82	1	21.	21.	21.	21.	0.	0.	**	**	**	**
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/27/82-07/27/82	1	61.	61.	61.	61.	0.	0.	**	**	**	**
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/27/82-07/27/82	1	80.	80.	80.	80.	0.	0.	**	**	**	**
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/27/82-07/27/82	1	96.	96.	96.	96.	0.	0.	**	**	**	**
80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	07/27/82-07/27/82	1	99.	99.	99.	99.	0.	0.	**	**	**	**
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	07/27/82-07/27/82	1	100.	100.	100.	100.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0058

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0059

NPS Station ID: APIS0059
LAT/LON: 46.920837/ -90.570560
Agency: 112WRD
Date Created: 04/09/83
Location: PRESQUE ISLE BAY SITE 2 NEAR STOCKTON ISLAND, WI
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 465515090341401
RMI-Indexes:
Within Park Boundary: No
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: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0059

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/27/82-07/27/82	2	15.	15.	30.	0.	450.	21.213	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-07/27/82	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-07/27/82	1	80.	80.	80.	80.	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/27/82-07/27/82	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/27/82-07/27/82	1	880.	880.	880.	880.	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/82-07/27/82	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/27/82-07/27/82	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/27/82-07/27/82	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/27/82-07/27/82	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/27/82-07/27/82	1	3.3	3.3	3.3	3.3	0.	0.	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/27/82-07/27/82	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/27/82-07/27/82	1	1.	1.	1.	1.	0.	0.	**	**	**	**
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/27/82-07/27/82	1	8.	8.	8.	8.	0.	0.	**	**	**	**
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/27/82-07/27/82	1	35.	35.	35.	35.	0.	0.	**	**	**	**
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/27/82-07/27/82	1	92.	92.	92.	92.	0.	0.	**	**	**	**
80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	07/27/82-07/27/82	1	99.	99.	99.	99.	0.	0.	**	**	**	**
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	07/27/82-07/27/82	1	100.	100.	100.	100.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0060

NPS Station ID: APIS0060 | LAT/LON: 47.081670/ -90.575005 | Agency: AIJCCCIW | Date Created: 02/09/78
Location: 3 MI SOUTH OF OUTER I.,WISCONSIN | | FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE | | STORET Station ID(s): C68SU078
RMI-Indexes: | | Within Park Boundary: No
RMI-Miles:
HUC: 04020300 | Depth of Water: 688 | Aquifer:
Major Basin: GREAT LAKES | Elevation: 0 | Water Body Id:
Minor Basin: ALSO SAMPLED IN 1969&1970 STATION #78 | | ECO Region:
RF1 Index: 04020300 | RF1 Mile Point: 0.000 | Distance from RF1: 13.80 | On/Off RF1:
RF3 Index: 04010301001007.02 | RF3 Mile Point: 10.66 | Distance from RF3: 1.27 | 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. USEPA CONTACTS: NELSON THOMAS OR WILLIAM RICHARDSON, 313-226-7811. DATA FOR THIS STATION WAS COLLECTED IN PART FOR THE IJC INTERNATIONAL SURVEILLANCE PROGRAM FOR THE GREAT LAKES. ADDITIONAL INFORMATION ON GREAT LAKES CANADIAN DATA IS ON DATA SET CN.EPANAT.CNLL.CANADA.NEWS AT THE STORET COMPUTER SITE.

Parameter Inventory for Station: APIS0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/68-11/05/70	16	3.	19.563	62.	0.	546.663	23.381	0.	0.75	44.75	57.1
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/68-11/05/70	16	6.75	7.762	13.6	1.6	23.769	4.875	1.67	3.875	13.475	13.6
00070	TURBIDITY, (JACKSON CANDLE UNITS)	08/26/68-11/05/70	12	0.4	0.35	0.7	0.1	0.039	0.198	0.1	0.125	0.475	0.67
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/26/68-09/20/70	3	8.	6.667	8.	4.	5.333	2.309	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	08/26/68-09/20/70	3	8.	8.	9.	7.	1.	1.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/68-11/05/70	12	97.5	99.167	108.	96.	15.788	3.973	96.	96.25	100.5	107.4
00300	OXYGEN, DISSOLVED MG/L	08/26/68-11/05/70	12	11.7	11.625	13.6	10.3	1.202	1.096	10.36	10.6	12.5	13.36
00400	PH (STANDARD UNITS)	08/26/68-08/26/68	2	7.7	7.7	7.8	7.6	0.02	0.141	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/26/68-08/26/68	2	7.689	7.689	7.8	7.6	0.02	0.142	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/68-08/26/68	2	0.02	0.02	0.025	0.016	0.	0.007	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/26/68-08/26/68	2	41.5	41.5	42.	41.	0.5	0.707	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	11/23/69-11/23/69	2	51.	51.	51.	51.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/26/68-08/26/68	2	56.5	56.5	57.	56.	0.5	0.707	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/26/68-08/26/68	2	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/26/68-08/26/68	2	0.006	0.006	0.007	0.005	0.	0.001	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/26/68-08/26/68	2	0.002	0.002	0.002	0.001	0.	0.001	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/26/68-11/23/69	4	44.	44.	45.	43.	0.667	0.816	**	**	**	**
00910	CALCIUM (MG/L AS CACO3)	08/26/68-11/23/69	4	13.1	13.15	13.4	13.	0.037	0.191	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/26/68-11/23/69	4	2.7	2.65	2.7	2.5	0.01	0.1	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	08/26/68-11/23/69	4	1.3	1.275	1.3	1.2	0.003	0.05	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	08/26/68-11/23/69	4	0.495	0.5	0.55	0.46	0.002	0.047	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/26/68-11/23/69	4	1.	1.	1.	1.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/26/68-11/23/69	4	3.5	3.75	5.	3.	0.917	0.957	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	08/26/68-08/26/68	2	0.035	0.035	0.04	0.03	0.	0.007	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/26/68-08/26/68	2	1.95	1.95	2.1	1.8	0.045	0.212	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	08/26/68-11/05/70	4	1.1	1.35	2.8	0.4	1.21	1.1	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0060

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	12	0	0.00	10	0	0.00							2	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	12	0	0.00	10	0	0.00							2	0	0.00
00400	PH	Fresh Chronic	9.	2	0	0.00	2	0	0.00									
		Other-Lo Lim.	6.5	2	0	0.00	2	0	0.00									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	4	0	0.00	4	0	0.00									
		Drinking Water	250.	4	0	0.00	4	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	0	0.00	4	0	0.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: APIS0061

NPS Station ID: APIS0061 LAT/LON: 47.081670/ -90.575005 Agency: AIJCCCIW Date Created: 02/09/78
Location: 3 MI WEST OF OUTER I.,WISCONSIN FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): C71SU063
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04020300 Depth of Water: 656 Aquifer:
Major Basin: GREAT LAKES Elevation: 0 Water Body Id:
Minor Basin: L. SUPERIOR CANADIAN 1971 STATION #63 ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 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. USEPA CONTACTS: NELSON THOMAS OR WILLIAM RICHARDSON, 313-226-7811. DATA FOR THIS STATION IN 1971 WAS COLLECTED IN PART FOR THE IJC INTERNATIONAL SURVEILLANCE PROGRAM FOR THE GREAT LAKES. ADDITIONAL INFORMATION ON GREAT LAKES CANADIAN DATA IS ON DATA SET CN.EPANAT.CNLL.CANADA.NEWS AT THE STORET COMPUTER SITE.

Parameter Inventory for Station: APIS0061

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/01/71-10/12/71	17	16.	25.882	62.	0.	563.36	23.735	0.	3.	53.5	59.6
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/01/71-10/12/71	17	10.3	8.341	13.1	4.1	14.46	3.803	4.1	4.1	11.2	13.1
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/01/71-10/12/71	14	0.7	0.614	1.	0.2	0.078	0.28	0.25	0.3	0.9	0.95
00078	TRANSPARENCY, SECCHI DISC (METERS)	10/12/71-10/12/71	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	10/12/71-10/12/71	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/01/71-10/12/71	14	96.5	96.929	101.	94.	3.148	1.774	94.5	96.	98.	100.
00300	OXYGEN, DISSOLVED MG/L	06/01/71-10/12/71	14	12.7	12.243	13.8	10.6	1.783	1.335	10.6	10.8	13.425	13.65
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	10/12/71-10/12/71	4	99.5	99.75	101.	99.	0.917	0.957	**	**	**	**
00400	PH (STANDARD UNITS)	06/01/71-10/12/71	14	8.12	8.117	8.27	7.94	0.007	0.086	7.985	8.05	8.148	8.26
00400	CONVERTED PH (STANDARD UNITS)	06/01/71-10/12/71	14	8.12	8.109	8.27	7.94	0.007	0.086	7.985	8.05	8.147	8.26
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/01/71-10/12/71	14	0.008	0.008	0.011	0.005	0.	0.002	0.005	0.007	0.009	0.01
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/01/71-10/12/71	14	42.	41.643	42.	41.	0.247	0.497	41.	41.	42.	42.
00440	BICARBONATE ION (MG/L AS HCO3)	06/01/71-10/12/71	5	51.	50.8	51.	50.	0.2	0.447	**	**	**	**
00602	NITROGEN, DISSOLVED (MG/L AS N)	10/12/71-10/12/71	4	0.3	0.3	0.31	0.29	0.	0.012	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	06/01/71-06/01/71	5	0.05	0.064	0.11	0.02	0.002	0.039	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	06/01/71-10/12/71	14	0.01	0.009	0.022	0.001	0.	0.006	0.001	0.002	0.013	0.019
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	06/01/71-10/12/71	14	0.002	0.002	0.003	0.001	0.	0.001	0.001	0.001	0.003	0.003
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/01/71-10/12/71	14	0.2	0.236	0.3	0.2	0.002	0.05	0.2	0.2	0.3	0.3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/06/71-10/12/71	9	0.009	0.011	0.027	0.008	0.	0.006	0.008	0.008	0.011	0.027
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/06/71-10/12/71	9	0.005	0.005	0.008	0.003	0.	0.002	0.003	0.003	0.007	0.008
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/01/71-10/12/71	13	0.001	0.001	0.001	0.001	0.	0.	0.001	0.001	0.001	0.001
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/01/71-10/12/71	8	1.6	1.613	2.	1.1	0.11	0.331	**	**	**	**
00685	CARBON, TOTAL INORGANIC (MG/L AS C)	06/01/71-10/12/71	8	10.95	8.663	11.8	2.2	14.268	3.777	**	**	**	**
00690	CARBON, TOTAL (MG/L AS C)	06/01/71-10/12/71	8	12.5	10.275	13.2	3.6	14.216	3.77	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/01/71-10/12/71	5	13.	13.	13.4	12.6	0.08	0.283	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/01/71-10/12/71	5	2.6	2.64	2.7	2.6	0.003	0.055	**	**	**	**

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

Parameter Inventory for Station: APIS0061

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/01/71-10/12/71	5	1.2	1.24	1.3	1.2	0.003	0.055	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/01/71-10/12/71	5	0.5	0.52	0.6	0.5	0.002	0.045	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/01/71-10/12/71	5	1.	1.	1.	1.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	06/01/71-10/12/71	5	2.7	2.46	2.7	2.1	0.108	0.329	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/01/71-06/01/71	3	0.05	0.05	0.06	0.04	0.	0.01	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/01/71-10/12/71	14	2.1	2.171	2.3	2.1	0.008	0.091	2.1	2.1	2.3	2.3
01025	CADMIUM, DISSOLVED (UG/L AS CD)	06/01/71-06/01/71	3	1.	1.133	2.	0.4	0.653	0.808	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/12/71-10/12/71	2	0.3	0.3	0.4	0.2	0.02	0.141	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	06/01/71-10/12/71	4	0.5	0.55	1.	0.2	0.11	0.332	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	06/01/71-10/12/71	5	18.	15.6	21.	9.	24.3	4.93	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	06/01/71-10/12/71	5	3.	3.	4.	2.	0.5	0.707	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	06/01/71-10/12/71	5	1.	1.36	2.	0.8	0.348	0.59	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/01/71-10/12/71	5	0.2	0.22	0.4	0.1	0.017	0.13	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/12/71-10/12/71	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	06/01/71-10/12/71	5	2.	2.34	5.	0.7	3.028	1.74	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/12/71-10/12/71	2	41.	41.	43.	39.	8.	2.828	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	06/01/71-10/12/71	5	25.	22.	38.	4.	225.5	15.017	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	06/01/71-10/12/71	5	0.6	0.62	0.7	0.5	0.007	0.084	**	**	**	**
31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	10/12/71-10/12/71	3	10.	10.	15.	5.	25.	5.	**	**	**	**
31503	LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	10/12/71-10/12/71	3	1.	0.958	1.176	0.699	0.058	0.241	**	**	**	**
31503	GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =			9.086								
31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	06/01/71-10/12/71	5	3.	5.4	15.	1.	34.8	5.899	**	**	**	**
31749	LOG PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	06/01/71-10/12/71	5	0.477	0.5	1.176	0.	0.269	0.519	**	**	**	**
31749	GM PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	GEOMETRIC MEAN =			3.16								
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	07/06/71-10/12/71	2	0.9	0.9	1.3	0.5	0.32	0.566	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	06/01/71-10/12/71	5	0.3	0.28	0.5	0.1	0.022	0.148	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0061

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------7/15-11/30---------- Obs	Exceed	Prop.	----------12/01-2/29---------- Obs	Exceed	Prop.	----------3/01-4/14---------- Obs	Exceed	Prop.	----------4/15-7/14---------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	14	0	0.00	4	0	0.00							10	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	14	0	0.00	4	0	0.00							10	0	0.00
00400	PH	Fresh Chronic	9.	14	0	0.00	4	0	0.00							10	0	0.00
		Other-Lo Lim.	6.5	14	0	0.00	4	0	0.00							10	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	14	0	0.00	4	0	0.00							10	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	14	0	0.00	4	0	0.00							10	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	5	0	0.00	2	0	0.00							3	0	0.00
		Drinking Water	250.	5	0	0.00	2	0	0.00							3	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	5	0	0.00	2	0	0.00							3	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	3	0	0.00										3	0	0.00
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	3	0	0.00										3	0	0.00
		Drinking Water	5.	3	0	0.00										3	0	0.00
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00	2	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	5	3	0.60	2	1	0.50							3	2	0.67
		Drinking Water	1300.	5	0	0.00	2	0	0.00							3	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute	82.	5	0	0.00	2	0	0.00							3	0	0.00
		Drinking Water	15.	5	0	0.00	2	0	0.00							3	0	0.00
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	5	0	0.00	2	0	0.00							3	0	0.00
		Drinking Water	100.	5	0	0.00	2	0	0.00							3	0	0.00
01090	ZINC, DISSOLVED	Fresh Acute	120.	5	0	0.00	2	0	0.00							3	0	0.00
		Drinking Water	5000.	5	0	0.00	2	0	0.00							3	0	0.00
31503	COLIFORM,TOT,MEMBRANE FILTR,DELAY. M-END	Other-Hi Lim.	1000.	3	0	0.00	3	0	0.00									
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	5	0	0.00	2	0	0.00							3	0	0.00
		Drinking Water	2.	5	0	0.00	2	0	0.00							3	0	0.00

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

Station Inventory for Station: APIS0062

NPS Station ID: APIS0062
LAT/LON: 47.083338/ -90.583338
Agency: 21WITIS
Date Created: 02/11/89
Location: LAKE SUPERIOR 12 GRID 1210
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE/TISSUE
STORET Station ID(s): 045035 /8280MA045035
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 55
Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
STATION FOR LEE LIEBENSTEIN OF BUR WATER RES MGT (608)266-0164

Parameter Inventory for Station: APIS0062

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/25/93-06/25/93	4	196.5	196.5	312.	81.	17633.667	132.792	**	**	**	**
00023	SAMPLE WEIGHT IN POUNDS	06/25/93-06/25/93	4	0.83	0.755	1.01	0.35	0.09	0.299	**	**	**	**
00024	SAMPLE LENGTH IN INCHES	06/25/93-06/25/93	4	11.	10.65	12.9	7.7	6.377	2.525	**	**	**	**
71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	06/25/93-06/25/93	4	0.25	0.25	0.4	0.1	0.017	0.129	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	06/25/93-06/25/93	4	1.	1.	1.	1.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0063

NPS Station ID: APIS0063
LAT/LON: 47.083338/ -90.583338
Agency: 21WITIS
Date Created: 10/22/88
Location: LAKE SUPERIOR 12 GRID 1210
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE/TISSUE
STORET Station ID(s): 025016 /8280MA025016
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 55
Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
STATION FOR LEE LIEBENSTEIN OF BUR WATER RES MGT (608)266-0164 FISH TOXICS MONITORING
LEE LIEBENSTEIN (608) 266-0164 BUREAU WATER RES MAN

Parameter Inventory for Station: APIS0063

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/27/84-08/05/92	9	821.	583.556	852.	61.	102940.528	320.843	61.	316.	851.5	852.
00023	SAMPLE WEIGHT IN POUNDS	07/27/84-08/05/92	9	0.22	0.512	2.09	0.1	0.424	0.651	0.1	0.105	0.74	2.09
00024	SAMPLE LENGTH IN INCHES	07/27/84-08/05/92	9	10.2	10.883	17.6	7.8	12.305	3.508	7.8	7.9	13.675	17.6
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	07/27/84-08/24/84	5 ##	0.25	0.3	0.5	0.25	0.013	0.112	**	**	**	**
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	07/27/84-08/24/84	5 ##	0.025	0.022	0.025	0.01	0.	0.007	**	**	**	**
34690	PCB - 1254 WET WGTTISMG/KG	07/23/92-08/05/92	2	0.055	0.055	0.064	0.046	0.	0.013	**	**	**	**
39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	07/27/84-07/27/84	4 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	07/27/84-08/05/92	7 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	07/27/84-08/05/92	7 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	07/27/84-08/24/84	5 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	07/27/84-08/24/84	5 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	07/27/84-08/24/84	5 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39075	BHC- GAMMA ISOMER, TISSUE WET WGT (UG/G)	07/27/84-08/24/84	5 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39302	P P DDT IN TISSUE WET WGT (UG/G)	07/27/84-08/05/92	7 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39307	O P DDT IN TISSUE WET WGT (UG/G)	07/27/84-08/05/92	7 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39312	P P DDD IN TISSUE WET WGT (UG/G)	07/27/84-08/05/92	7 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	07/27/84-08/05/92	7	0.03	0.058	0.14	0.025	0.002	0.046	**	**	**	**
39325	O,P DDD IN TISSUE WET WGT (UG/G)	07/27/84-08/05/92	7 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39329	O,P DDE IN TISSUE, WET WGT(UG/G)	07/27/84-08/05/92	7 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39397	ENDRIN IN SHELLFISH OR ANIMAL (UG/KG WET WEIGHT)	07/27/84-08/24/84	5 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	07/27/84-08/05/92	7 ##	0.01	0.013	0.02	0.01	0.	0.005	**	**	**	**
39515	PCBS (MG/KG) FISH TISSUE MG/KG	07/27/84-08/24/84	5 ##	0.1	0.204	0.38	0.1	0.02	0.143	**	**	**	**
39703	HEXACHLOROBENZENE IN FISH OR ANIMALS WET WGT UG/K	07/27/84-08/24/84	5 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/27/84-08/24/84	5	0.08	0.101	0.29	0.015	0.012	0.11	**	**	**	**
71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	07/23/92-08/05/92	2 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	07/27/84-08/24/84	5 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	07/27/84-08/24/84	5	1.	1.48	2.8	0.9	0.687	0.829	**	**	**	**
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	07/27/84-08/24/84	5 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/27/84-08/24/84	5 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	07/23/92-08/05/92	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	07/23/92-08/05/92	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
78926	FAT, PERCENT, IN TISSUE, WET WEIGHT %	07/27/84-08/05/92	7	3.5	3.986	7.6	1.6	3.548	1.884	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	07/23/92-08/05/92	4	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: APIS0063

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	07/27/84-08/24/84	5 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0064

NPS Station ID: APIS0064
LAT/LON: 46.916670/ -90.583338
Agency: 21WITIS
Date Created: 02/11/89
Location: LAKE SUPERIOR 13 GRID 1310
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE/TISSUE
STORET Station ID(s): 025014 /8280MA025014
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 55
Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
STATION FOR LEE LIEBENSTEIN OF BUR WATER RES MGT (608)266-0164

Parameter Inventory for Station: APIS0064

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/28/92-08/29/95	5	13.	347.8	852.	11.	211428.7	459.814	**	**	**	**
00023	SAMPLE WEIGHT IN POUNDS	07/28/92-08/29/95	5	0.11	0.096	0.22	0.02	0.007	0.083	**	**	**	**
00024	SAMPLE LENGTH IN INCHES	07/28/92-08/29/95	5	3.	4.72	7.8	2.	8.072	2.841	**	**	**	**
04440	PCB CONGENER #1260, TISSUE, WET WEIGHT UG/G	08/29/95-08/29/95	3	0.05	0.053	0.07	0.04	0.	0.015	**	**	**	**
34690	PCB - 1254 WET WGTTISMG/KG	07/28/92-07/28/92	1	0.047	0.047	0.047	0.047	0.	0.	**	**	**	**
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	07/28/92-08/29/95	4 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	07/28/92-08/29/95	4 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39302	P P DDT IN TISSUE WET WGT (UG/G)	07/28/92-08/29/95	4 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39307	O P DDT IN TISSUE WET WGT (UG/G)	07/28/92-08/29/95	4 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39312	P P DDD IN TISSUE WET WGT (UG/G)	07/28/92-08/29/95	4 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	07/28/92-08/29/95	4 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39325	O,P DDD IN TISSUE WET WGT (UG/G)	07/28/92-08/29/95	4 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39329	O,P DDE IN TISSUE, WET WGT(UG/G)	07/28/92-08/29/95	4 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	07/28/92-08/29/95	4	0.02	0.025	0.04	0.02	0.	0.01	**	**	**	**
71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	07/28/92-07/28/92	1 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	07/28/92-08/29/95	4 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	07/28/92-08/29/95	4 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
78926	FAT, PERCENT, IN TISSUE, WET WEIGHT %	07/28/92-08/29/95	4	5.45	5.85	8.2	4.3	2.83	1.682	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	07/28/92-08/29/95	5	50.	34.	50.	10.	480.	21.909	**	**	**	**

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

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

Station Inventory for Station: APIS0065

NPS Station ID: APIS0065
LAT/LON: 46.750005/ -90.583338
Agency: 21WITIS
Date Created: 10/22/88
Location: LAKE SUPERIOR 14 GRID 1410
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE/TISSUE
STORET Station ID(s): 025019 /8280MA025019
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 55
Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
STATION FOR LEE LIEBENSTEIN OF BUR WATER RES MGT (608)266-0164 FISH TOXICS MONITORING
LEE LIEBENSTEIN (608) 266-0164 BUREAU WATER RES MAN

Parameter Inventory for Station: APIS0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/20/83-04/26/95	15	297.	477.2	991.	111.	75888.314	275.478	219.	293.	821.	895.
00023	SAMPLE WEIGHT IN POUNDS	10/20/83-04/26/95	15	4.78	4.895	11.55	1.37	7.549	2.748	1.568	2.65	6.17	9.234
00024	SAMPLE LENGTH IN INCHES	10/20/83-04/26/95	15	25.4	23.983	33.5	16.6	28.338	5.323	16.72	18.45	26.9	33.14
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	10/20/83-10/20/83	3 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
04440	PCB CONGENER #1260, TISSUE, WET WEIGHT UG/G	04/26/95-04/26/95	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
34670	PCB - 1260 WET WGTTISMG/KG	04/21/88-04/24/91	5	0.31	0.326	0.48	0.22	0.01	0.101	**	**	**	**
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	04/21/88-04/26/95	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	04/21/88-04/26/95	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
39302	P P DDT IN TISSUE WET WGT (UG/G)	04/21/88-04/26/95	11 ##	0.025	0.027	0.05	0.025	0.	0.008	0.025	0.025	0.025	0.045
39307	O P DDT IN TISSUE WET WGT (UG/G)	04/21/88-04/26/95	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
39312	P P DDD IN TISSUE WET WGT (UG/G)	04/21/88-04/26/95	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	04/21/88-04/26/95	11 ##	0.025	0.05	0.14	0.025	0.002	0.041	0.025	0.025	0.09	0.132
39325	O,P DDD IN TISSUE WET WGT (UG/G)	04/21/88-04/26/95	11 ##	0.025	0.027	0.05	0.025	0.	0.008	0.025	0.025	0.025	0.045
39329	O,P DDE IN TISSUE, WET WGT(UG/G)	04/21/88-04/26/95	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	04/21/88-04/26/95	11	0.03	0.031	0.1	0.01	0.001	0.027	0.01	0.01	0.04	0.09
39407	TOXAPHENE IN FISH OR ANIMAL(UG/KG WET WEIGHT)	04/21/88-04/22/88	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39515	PCBS (MG/KG) FISH TISSUE MG/KG	04/24/91-04/24/91	5 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/20/83-10/20/83	3	0.08	0.097	0.13	0.08	0.001	0.029	**	**	**	**
71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	04/21/88-04/24/91	3	0.2	0.167	0.2	0.1	0.003	0.058	**	**	**	**
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/20/83-10/20/83	3 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/20/83-10/20/83	3	1.6	1.7	2.1	1.4	0.13	0.361	**	**	**	**
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	10/20/83-10/20/83	3 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/20/83-10/20/83	3 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	04/21/88-04/26/95	11 ##	0.025	0.029	0.07	0.025	0.	0.014	0.025	0.025	0.025	0.061
78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	04/21/88-04/26/95	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
78926	FAT, PERCENT, IN TISSUE, WET WEIGHT %	04/21/88-04/26/95	11	7.2	8.045	15.	0.5	18.651	4.319	1.26	5.3	12.	14.6
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	04/21/88-04/26/95	12	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.

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

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

Seasonal Analysis for Season #1: 7/15 to 11/30 - Station APIS0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/20/83-04/26/95	3	611.	444.667	612.	111.	83500.333	288.964	**	**	**	**
00023	SAMPLE WEIGHT IN POUNDS	10/20/83-04/26/95	3	2.65	2.683	3.64	1.76	0.884	0.94	**	**	**	**
00024	SAMPLE LENGTH IN INCHES	10/20/83-04/26/95	3	18.45	18.817	21.4	16.6	5.861	2.421	**	**	**	**

** - Less than 9 observations ## - Computed 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: 4/15 to 7/14 - Station APIS0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/20/83-04/26/95	12	296.5	485.333	991.	291.	81042.424	284.68	291.3	293.25	821.75	943.
00023	SAMPLE WEIGHT IN POUNDS	10/20/83-04/26/95	12	5.255	5.448	11.55	1.37	7.78	2.789	1.469	3.558	7.31	10.392
00024	SAMPLE LENGTH IN INCHES	10/20/83-04/26/95	12	25.95	25.275	33.5	16.8	25.9	5.089	17.16	21.35	27.425	33.32

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

Station Inventory for Station: APIS0066

NPS Station ID: APIS0066
LAT/LON: 46.956337/ -90.585198
Agency: 11NPSWRD
Date Created: 10/03/98
Location: STOCKTON ISLAND-STATION #2
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): APIS_USGS_2
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: MONTREAL
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE STOCKTON ISLAND WI-ASHLAND CO. 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. STATION #2 IS AT STOCKTON ISLAND AT A STREAM AND IS LOCATED INSIDE APOSTLE ISLAND NATIONAL LAKESHORE BOUNDARIES. THE SITE WAS SAMPLED IN A BEAVER POND. DATA ARE FROM THE USGS WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY W.J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVE OF THE REPORT IS "TO PROVIDE A QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE" FOR 1979-1984 WATER YEARS. LATITUDE AND LONGITUDE COORDINATE VALUES WERE OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP USING FIGURE 3 IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WI 54814 (TEL. 715-779-3397). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NPSWRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0066

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/07/80-08/07/80	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/07/80-08/07/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/80-08/07/80	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/07/80-08/07/80	1	4.2	4.2	4.2	4.2	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/07/80-08/07/80	1	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/07/80-08/07/80	1	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/07/80-08/07/80	1	2.512	2.512	2.512	2.512	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	08/07/80-08/07/80	1	10.	10.	10.	10.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	08/07/80-08/07/80	1	1.	1.	1.	1.	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			10.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/07/80-08/07/80	1	47.	47.	47.	47.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/07/80-08/07/80	1	1.672	1.672	1.672	1.672	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			47.								

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

EPA Water Quality Criteria Analysis for Station: APIS0066

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0067

NPS Station ID: APIS0067
LAT/LON: 46.914449/ -90.596948
Agency: 112WRD
Date Created: 11/07/81
Location: LAKE SUPERIOR NR QUARRY POINT, WI
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 465452090354900
RMI-Indexes:
Within Park Boundary: No
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: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0067

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/81-09/09/81	2	17.25	17.25	18.	16.5	1.125	1.061	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/23/81-07/23/81	1	98.	98.	98.	98.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/09/81-09/09/81	1	9.3	9.3	9.3	9.3	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/81-09/09/81	1	98.	98.	98.	98.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/23/81-07/23/81	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/23/81-07/23/81	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/23/81-07/23/81	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/81-07/23/81	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	07/23/81-09/09/81	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	07/23/81-09/09/81	2 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			0.5								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/23/81-09/09/81	2 ##	37.75	37.75	75.	0.5	2775.125	52.679	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/23/81-09/09/81	2 ##	0.787	0.787	1.875	-0.301	2.368	1.539	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			6.124								
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/23/81-07/23/81	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0067

				Total	Exceed	Prop.	7/15-11/30			12/01-2/29			3/01-4/14			4/15-7/14		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: APIS0068

NPS Station ID: APIS0068 | LAT/LON: 46.924088/ -90.602115 | Agency: 11NPSWRD | Date Created: 10/03/98
Location: STOCKTON ISLAND-STATION #9 | FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): APIS_USGS_9
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301 | Depth of Water: 0 | Aquifer:
Major Basin: LAKE SUPERIOR | Elevation: 0 | Water Body Id:
Minor Basin: MONTREAL | ECO Region:
RF1 Index: 04010301 | RF1 Mile Point: 0.000 | Distance from RF1: 13.80 | On/Off RF1:
RF3 Index: 04010301001007.02 | RF3 Mile Point: 10.66 | Distance from RF3: 1.27 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE STOCKTON ISLAND WI-ASHLAND CO. 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. STATION #9 IS AT STOCKTON ISLAND AT A STREAM AND IS LOCATED INSIDE APOSTLE ISLAND NATIONAL LAKESHORE BOUNDARIES. THE SITE WAS SAMPLED IN A BEAVER POND IN 1984. DATA ARE FROM THE USGS WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY W.J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVE OF THE REPORT IS "TO PROVIDE A QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE" FOR 1979-1984 WATER YEARS. LATITUDE AND LONGITUDE COORDINATE VALUES WERE OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP USING FIGURE 3 IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WI 54814 (TEL. 715-779-3397). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NPSWRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0068

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/07/80-07/17/84	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/84-07/17/84	1	42.	42.	42.	42.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/17/84-07/17/84	1	4.2	4.2	4.2	4.2	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/17/84-07/17/84	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/17/84-07/17/84	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/84-07/17/84	1	0.398	0.398	0.398	0.398	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/17/84-07/17/84	1	15.	15.	15.	15.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0068

				Total	Exceed	Prop.	7/15-11/30			12/01-2/29			3/01-4/14			4/15-7/14		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									

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

Station Inventory for Station: APIS0069

NPS Station ID: APIS0069 LAT/LON: 46.921116/ -90.606115 Agency: 112WRD Date Created: 11/07/81
Location: LAKE SUPERIOR AT DOCK ON QUARRY BAY, WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 465516090362200
RMI-Indexes: Within Park Boundary: No
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: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0069

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/81-07/23/81	1	17.5	17.5	17.5	17.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/23/81-07/23/81	1	95.	95.	95.	95.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/23/81-07/23/81	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/23/81-07/23/81	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/23/81-07/23/81	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/81-07/23/81	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	07/23/81-09/09/81	2 ##	17.25	17.25	34.	0.5	561.125	23.688	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	07/23/81-09/09/81	2 ##	0.615	0.615	1.531	-0.301	1.679	1.296	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			4.123								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/23/81-09/09/81	2	13.5	13.5	20.	7.	84.5	9.192	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/23/81-09/09/81	2	1.073	1.073	1.301	0.845	0.104	0.322	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			11.832								
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/23/81-07/23/81	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0069

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: APIS0070

NPS Station ID: APIS0070
LAT/LON: 46.946028/ -90.613653
Agency: 11NPSWRD
Date Created: 10/03/98
Location: STOCKTON ISLAND-STATION #3
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): APIS_USGS_3
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: MONTREAL
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE STOCKTON ISLAND WI-ASHLAND CO. 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. STATION #3 IS AT STOCKTON ISLAND AT A STREAM AND IS LOCATED INSIDE APOSTLE ISLAND NATIONAL LAKESHORE BOUNDARIES. THE SITE WAS SAMPLED IN A BEAVER POND. DATA ARE FROM THE USGS WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY W.J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVE OF THE REPORT IS "TO PROVIDE A QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE" DURING 1979-1984 WATER YEARS. LATITUDE AND LONGITUDE COORDINATE VALUES WERE OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP USING FIGURE 3 IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WI 54814 (TEL. 715-779-3397). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NPSWRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0070

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/07/80-08/07/80	1	19.5	19.5	19.5	19.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/07/80-08/07/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/80-08/07/80	1	52.	52.	52.	52.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/07/80-08/07/80	1	2.9	2.9	2.9	2.9	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/07/80-08/07/80	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/07/80-08/07/80	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/07/80-08/07/80	1	0.794	0.794	0.794	0.794	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	08/07/80-08/07/80	1	40.	40.	40.	40.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	08/07/80-08/07/80	1	1.602	1.602	1.602	1.602	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			40.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/07/80-08/07/80	1	150.	150.	150.	150.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/07/80-08/07/80	1	2.176	2.176	2.176	2.176	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			150.								

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

EPA Water Quality Criteria Analysis for Station: APIS0070

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	1	1.00	1	1	1.00									
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0071

NPS Station ID: APIS0071 LAT/LON: 47.032226/ -90.651948 Agency: 112WRD Date Created: 11/07/81
Location: LAKE SUPERIOR AT DOCK ON SOUTH TWIN ISLAND, WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 470156090390700
RMI-Indexes: Within Park Boundary: No
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: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0071

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/81-07/23/81	1	17.5	17.5	17.5	17.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/23/81-07/23/81	1	97.	97.	97.	97.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/23/81-07/23/81	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/23/81-07/23/81	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/23/81-07/23/81	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/81-07/23/81	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	07/23/81-09/09/81	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	07/23/81-09/09/81	2 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			0.5								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/23/81-09/09/81	2	18.5	18.5	30.	7.	264.5	16.263	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/23/81-09/09/81	2	1.161	1.161	1.477	0.845	0.2	0.447	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			14.491								
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/23/81-07/23/81	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0071

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: APIS0072

NPS Station ID: APIS0072 LAT/LON: 47.032754/ -90.652253 Agency: 11NPSWRD Date Created: 04/04/98
Location: LAKE SUPERIOR WEST OF DOCK AT SOUTH TWIN ISLAND FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): APIS_UW_SOUTHTW
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE ROCKY ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON LAKE SUPERIOR APPROXIMATELY 100 FEET WEST OF THE DOCK AT SOUTH TWIN ISLAND. SAMPLES FOR THIS SITE WERE COLLECTED TWICE WEEKLY BETWEEN MID MAY AND SEPTEMBER OF 1986 AND 1987. SAMPLES WERE ANALYZED FOR FECAL COLIFORM AND FECAL STREPTOCOCCUS. THE RESULTS ARE IN "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE 1986-1988" BY MARY BALCER AND DENNIS MCCAULEY WITH THE CENTER FOR LAKE SUPERIOR ENVIRONMENTAL STUDIES; UNIVERSITY OF WISCONSIN-SUPERIOR (MARCH 1989). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/13/86-09/11/87	55 ##	0.5	2.382	39.	0.5	37.481	6.122	0.5	0.5	1.	6.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/13/86-09/11/87	55 ##	-0.301	-0.041	1.591	-0.301	0.211	0.459	-0.301	-0.301	0.	0.778
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			0.909								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/13/86-09/11/87	56	310.	842.643	4850.	1.	1676444.306	1294.776	14.1	84.25	790.	3159.1
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/13/86-09/11/87	56	2.491	2.374	3.686	0.	0.669	0.818	1.147	1.925	2.898	3.494
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			236.383								

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

EPA Water Quality Criteria Analysis for Station: APIS0072

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	55	0	0.00	30	0	0.00							25	0	0.00

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

Station Inventory for Station: APIS0073

NPS Station ID: APIS0073 LAT/LON: 47.033337/ -90.653338 Agency: 11NPSWRD Date Created: 10/10/98
Location: LK SUPERIOR SITE 3 NR ROCKY & S TWIN ISLANDS WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): APIS_USGS_RS3
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE ROCKY ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. LAKE SUPERIOR SITE 3 IS NEAR ROCKY ISLAND & SOUTH TWIN ISLAND AND IS OUTSIDE THE APOSTLE ISLAND NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE UNITED STATES GEOLOGICAL SURVEY WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY WILLIAM J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVES OF THE REPORT WERE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE USGS DURING 1979-1984 WATER YEARS AND TO PROVIDE A QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF THE LAKESHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0073

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	07/25/83-07/25/83	1	43.	43.	43.	43.	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/25/83-07/25/83	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/25/83-07/25/83	1	1700.	1700.	1700.	1700.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/25/83-07/25/83	1	90.	90.	90.	90.	0.	0.	**	**	**	**
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	1	9.4	9.4	9.4	9.4	0.	0.	**	**	**	**
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/25/83-07/25/83	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

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

Station Inventory for Station: APIS0074

NPS Station ID: APIS0074 LAT/LON: 47.040004/ -90.653338 Agency: 11NPSWRD Date Created: 10/10/98
Location: LK SUPERIOR SITE 4 NR ROCKY & S TWIN ISLANDS WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): APIS_USGS_RS4
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE ROCKY ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. LAKE SUPERIOR SITE 4 IS NEAR ROCKY ISLAND & SOUTH TWIN ISLAND AND IS OUTSIDE THE APOSTLE ISLAND NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE UNITED STATES GEOLOGICAL SURVEY WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY WILLIAM J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVES OF THE REPORT WERE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE USGS DURING 1979-1984 WATER YEARS AND TO PROVIDE A QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF THE LAKESHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0074

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	07/25/83-07/25/83	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/25/83-07/25/83	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/25/83-07/25/83	1	190.	190.	190.	190.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/25/83-07/25/83	1	59.	59.	59.	59.	0.	0.	**	**	**	**
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/25/83-07/25/83	1	0.	0.	0.	0.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0075

NPS Station ID: APIS0075 LAT/LON: 47.033337/ -90.653338 Agency: 112WRD Date Created: 01/21/84
Location: LK SUPERIOR SITE 3 NR ROCKY & S TWIN ISLANDS, WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 470200090391201
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010302 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 04010302 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0075

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/83-07/25/83	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/83-07/25/83	1	17.5	17.5	17.5	17.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/25/83-07/25/83	1	87.	87.	87.	87.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/25/83-07/25/83	1	10.1	10.1	10.1	10.1	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/25/83-07/25/83	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/25/83-07/25/83	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/25/83-07/25/83	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/83-07/25/83	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/25/83-07/25/83	1	3.2	3.2	3.2	3.2	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0075

			Total	Exceed	Prop.	----------7/15-11/30----------			----------12/01-2/29----------			----------3/01-4/14----------			----------4/15-7/14----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0076

NPS Station ID: APIS0076 LAT/LON: 47.028338/ -90.653338 Agency: 112WRD Date Created: 01/21/84
Location: LK SUPERIOR SITE 2 NR ROCKY & S TWIN ISLANDS, WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 470142090391201
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010302 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 04010302 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/83-07/25/83	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/83-07/25/83	1	17.5	17.5	17.5	17.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/25/83-07/25/83	1	90.	90.	90.	90.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/25/83-07/25/83	1	10.2	10.2	10.2	10.2	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/25/83-07/25/83	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/25/83-07/25/83	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/25/83-07/25/83	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/83-07/25/83	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/25/83-07/25/83	1	3.	3.	3.	3.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0076

				Total	Exceed	Prop.	7/15-11/30			12/01-2/29			3/01-4/14			4/15-7/14		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0077

NPS Station ID: APIS0077 LAT/LON: 47.040004/ -90.653338 Agency: 112WRD Date Created: 01/21/84
Location: LK SUPERIOR SITE 4 NR ROCKY & S TWIN ISLANDS, WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 470224090391201
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010302 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 04010302 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0077

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/83-07/25/83	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/83-07/25/83	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/25/83-07/25/83	1	92.	92.	92.	92.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/25/83-07/25/83	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/25/83-07/25/83	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/25/83-07/25/83	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/25/83-07/25/83	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/83-07/25/83	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/25/83-07/25/83	1	3.	3.	3.	3.	0.	0.	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/25/83-07/25/83	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0077

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0078

NPS Station ID: APIS0078 LAT/LON: 47.028338/ -90.653338 Agency: 11NPSWRD Date Created: 10/10/98
Location: LK SUPERIOR SITE 2 NR ROCKY & S TWIN ISLANDS WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): APIS_USGS_RS2
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE ROCKY ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. LAKE SUPERIOR SITE 2 IS NEAR ROCKY ISLAND & SOUTH TWIN ISLAND AND IS OUTSIDE THE APOSTLE ISLAND NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE UNITED STATES GEOLOGICAL SURVEY WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY WILLIAM J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVES OF THE REPORT WERE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE USGS DURING 1979-1984 WATER YEARS AND TO PROVIDE A QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF THE LAKESHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	07/25/83-07/25/83	1	52.	52.	52.	52.	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/25/83-07/25/83	1	3.6	3.6	3.6	3.6	0.	0.	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/25/83-07/25/83	1	540.	540.	540.	540.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/25/83-07/25/83	1	44.	44.	44.	44.	0.	0.	**	**	**	**
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	1	5.3	5.3	5.3	5.3	0.	0.	**	**	**	**
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/25/83-07/25/83	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

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

Station Inventory for Station: APIS0079

NPS Station ID: APIS0079 | LAT/LON: 47.040004/ -90.660004 | Agency: 11NPSWRD | Date Created: 10/10/98
Location: LK SUPERIOR SITE 5 NR ROCKY & S TWIN ISLANDS WI | FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE | STORET Station ID(s): APIS_USGS_RS5
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 04010301 | Depth of Water: 0 | Aquifer:
Major Basin: LAKE SUPERIOR | Elevation: 0 | Water Body Id:
Minor Basin: MONTREAL | ECO Region:
RF1 Index: 04010301 | RF1 Mile Point: 0.000 | Distance from RF1: 13.80 | On/Off RF1:
RF3 Index: 04010301001007.02 | RF3 Mile Point: 10.66 | Distance from RF3: 1.27 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE ROCKY ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. LAKE SUPERIOR SITE 5 IS NEAR ROCKY ISLAND & SOUTH TWIN ISLAND AND IS OUTSIDE THE APOSTLE ISLAND NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE UNITED STATES GEOLOGICAL SURVEY WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY WILLIAM J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVES OF THE REPORT WERE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE USGS DURING 1979-1984 WATER YEARS AND TO PROVIDE A QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF THE LAKESHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0079

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	07/25/83-07/25/83	1	52.	52.	52.	52.	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/25/83-07/25/83	1	4.1	4.1	4.1	4.1	0.	0.	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/25/83-07/25/83	1	1300.	1300.	1300.	1300.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/25/83-07/25/83	1	220.	220.	220.	220.	0.	0.	**	**	**	**
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	1	4.3	4.3	4.3	4.3	0.	0.	**	**	**	**
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/25/83-07/25/83	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

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

Station Inventory for Station: APIS0080

NPS Station ID: APIS0080 LAT/LON: 47.040004/ -90.660004 Agency: 112WRD Date Created: 01/21/84
Location: LK SUPERIOR SITE 5 NR ROCKY & S TWIN ISLANDS, WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 470224090393601
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010302 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 04010302 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/83-07/25/83	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/83-07/25/83	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/25/83-07/25/83	1	95.	95.	95.	95.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/25/83-07/25/83	1	9.2	9.2	9.2	9.2	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/25/83-07/25/83	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/25/83-07/25/83	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/25/83-07/25/83	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/83-07/25/83	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/25/83-07/25/83	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/25/83-07/25/83	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0080

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0081

NPS Station ID: APIS0081 LAT/LON: 47.033365/ -90.661670 Agency: 11NPSWRD Date Created: 10/10/98
Location: LK SUPERIOR SITE 7 NR ROCKY & S TWIN ISLANDS WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): APIS_USGS_RS7
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE ROCKY ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. LAKE SUPERIOR SITE 7 IS NEAR ROCKY ISLAND & SOUTH TWIN ISLAND AND IS OUTSIDE THE APOSTLE ISLAND NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE UNITED STATES GEOLOGICAL SURVEY WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY WILLIAM J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVES OF THE REPORT WERE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE USGS DURING 1979-1984 WATER YEARS AND TO PROVIDE A QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF THE LAKESHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	07/25/83-07/25/83	1	59.	59.	59.	59.	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/25/83-07/25/83	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/25/83-07/25/83	1	5200.	5200.	5200.	5200.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/25/83-07/25/83	1	410.	410.	410.	410.	0.	0.	**	**	**	**
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	1	17.	17.	17.	17.	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/25/83-07/25/83	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/25/83-07/25/83	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

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

Station Inventory for Station: APIS0082

NPS Station ID: APIS0082 LAT/LON: 47.033337/ -90.661670 Agency: 112WRD Date Created: 01/21/84
Location: LK SUPERIOR SITE 7 NR ROCKY & S TWIN ISLANDS, WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 470200090394201
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010302 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 04010302 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/83-07/25/83	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/83-07/25/83	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/25/83-07/25/83	1	96.	96.	96.	96.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/25/83-07/25/83	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/25/83-07/25/83	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/25/83-07/25/83	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/25/83-07/25/83	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/83-07/25/83	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/25/83-07/25/83	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/25/83-07/25/83	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	07/25/83-07/25/83	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: APIS0082

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0083

NPS Station ID: APIS0083 LAT/LON: 47.026670/ -90.663337 Agency: 112WRD Date Created: 01/21/84
Location: LK SUPERIOR SITE 1 NR ROCKY & S TWIN ISLANDS, WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 470136090394801
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010302 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 04010302 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/83-07/25/83	1	85.	85.	85.	85.	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/25/83-07/25/83	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/25/83-07/25/83	1	4100.	4100.	4100.	4100.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/25/83-07/25/83	1	44.	44.	44.	44.	0.	0.	**	**	**	**
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/25/83-07/25/83	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/25/83-07/25/83	1	7.	7.	7.	7.	0.	0.	**	**	**	**
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/25/83-07/25/83	1	26.	26.	26.	26.	0.	0.	**	**	**	**
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/25/83-07/25/83	1	45.	45.	45.	45.	0.	0.	**	**	**	**
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/25/83-07/25/83	1	76.	76.	76.	76.	0.	0.	**	**	**	**
80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	07/25/83-07/25/83	1	88.	88.	88.	88.	0.	0.	**	**	**	**
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	07/25/83-07/25/83	1	89.	89.	89.	89.	0.	0.	**	**	**	**
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	07/25/83-07/25/83	1	89.	89.	89.	89.	0.	0.	**	**	**	**
80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	07/25/83-07/25/83	1	89.	89.	89.	89.	0.	0.	**	**	**	**
80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	07/25/83-07/25/83	1	89.	89.	89.	89.	0.	0.	**	**	**	**
80173	BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM	07/25/83-07/25/83	1	100.	100.	100.	100.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0084

NPS Station ID: APIS0084 LAT/LON: 47.026670/ -90.663337 Agency: 11NPSWRD Date Created: 10/03/98
Location: LK SUPERIOR SITE 1 NR ROCKY & S TWIN ISLANDS WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): APIS_USGS_RS1
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE ROCKY ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE LAKE SUPERIOR SITE 1 NEAR ROCKY ISLAND & SOUTH TWIN ISLAND IS LOCATED OUTSIDE THE APOSTLE ISLAND NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE UNITED STATES GEOLOGICAL SURVEY WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY WILLIAM J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVES OF THE REPORT ARE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE USGS DURING 1979-1984 WATER YEARS AND TO PROVIDE A QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/83-07/25/83	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	07/25/83-07/25/83	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/25/83-07/25/83	1	97.	97.	97.	97.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/25/83-07/25/83	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/25/83-07/25/83	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/25/83-07/25/83	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/83-07/25/83	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/25/83-07/25/83	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0084

			Total	Exceed	Prop.	7/15-11/30			12/01-2/29			3/01-4/14			4/15-7/14		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400 PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0085

NPS Station ID: APIS0085 LAT/LON: 47.038337/ -90.666726 Agency: 11NPSWRD Date Created: 10/10/98
Location: LK SUPERIOR SITE 6 NR ROCKY & S TWIN ISLANDS WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): APIS_USGS_RS6
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE ROCKY ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. LAKE SUPERIOR SITE 6 IS NEAR ROCKY ISLAND & SOUTH TWIN ISLAND AND IS OUTSIDE THE APOSTLE ISLAND NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE UNITED STATES GEOLOGICAL SURVEY WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY WILLIAM J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVES OF THE REPORT WERE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE USGS DURING 1979-1984 WATER YEARS AND TO PROVIDE A QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF THE LAKESHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0085

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	07/25/83-07/25/83	1	33.	33.	33.	33.	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/25/83-07/25/83	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/25/83-07/25/83	1	1200.	1200.	1200.	1200.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/25/83-07/25/83	1	200.	200.	200.	200.	0.	0.	**	**	**	**
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/25/83-07/25/83	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

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

Station Inventory for Station: APIS0086

NPS Station ID: APIS0086 LAT/LON: 47.038337/ -90.666671 Agency: 112WRD Date Created: 01/21/84
Location: LK SUPERIOR SITE 6 NR ROCKY & S TWIN ISLANDS, WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 470218090400001
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010302 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 04010302 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0086

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/83-07/25/83	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/83-07/25/83	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/25/83-07/25/83	1	95.	95.	95.	95.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/25/83-07/25/83	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/25/83-07/25/83	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/25/83-07/25/83	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/25/83-07/25/83	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/83-07/25/83	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/25/83-07/25/83	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0086

			Total	Exceed	Prop.	7/15-11/30			12/01-2/29			3/01-4/14			4/15-7/14		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0087

NPS Station ID: APIS0087 LAT/LON: 47.032253/ -90.668337 Agency: 11NPSWRD Date Created: 03/21/98
Location: LAKE SUPERIOR 0.2 MILES EAST OF ROCKY ISLAND FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): APIS_ROCKY_IS
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE ROCKY ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON LAKE SUPERIOR APPROXIMATELY 0.2 MILES EAST OF ROCK ISLAND. SAMPLES FOR THIS SITE WERE COLLECTED MONTHLY OVER THE SUMMER OF 1996. SAMPLES WERE ANALYZED FOR PHYSICAL PARAMETERS AND NUTRIENT CONCENTRATIONS. THE RESULTS ARE IN "LAKE SUPERIOR FOOD WEB - APOSTLE ISLANDS ONRW" BY LAKE SUPERIOR ECOSYSTEM RESEARCH CENTER; MICHIGAN TECHNOLOGY UNIVERSITY (JUNE 1997). THE DATA WERE RECEIVED IN DIGITAL FORMAT FROM NATURAL RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE. LAT/LONG COORDINATES ARE THE CENTROID OF THREE LORAN READINGS (1 FOR EACH MONTH SAMPLED). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0087

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/12/96-08/21/96	59	36.	36.847	72.	0.	510.442	22.593	7.	16.	56.	70.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/12/96-08/21/96	50	8.2	10.018	18.2	4.6	24.895	4.989	4.92	5.55	16.275	17.7
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	06/12/96-08/21/96	50	61.	64.464	73.2	60.	36.806	6.067	60.	60.	73.2	73.2
00078	TRANSPARENCY, SECCHI DISC (METERS)	06/12/96-08/21/96	3	9.11	8.827	12.8	4.57	16.993	4.122	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/12/96-08/21/96	50	97.5	99.46	106.	96.	17.315	4.161	96.	96.	105.25	106.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/12/96-08/21/96	50	11.75	11.508	13.4	9.7	1.456	1.207	9.71	9.8	12.4	12.96
00406	PH, FIELD, STANDARD UNITS SU	06/12/96-08/21/96	50	7.73	7.707	8.	7.29	0.055	0.234	7.46	7.498	7.925	7.99
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/12/96-08/21/96	50	7.73	7.647	8.	7.29	0.058	0.241	7.46	7.497	7.925	7.99
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/12/96-08/21/96	50	0.019	0.023	0.051	0.01	0.	0.012	0.01	0.012	0.032	0.035
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/12/96-08/21/96	6	0.35	0.35	0.4	0.3	0.003	0.055	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/12/96-08/21/96	9 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/12/96-08/21/96	9	2.1	1.844	2.5	1.1	0.27	0.52	1.1	1.25	2.25	2.5
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/09/96-08/21/96	2	0.295	0.295	0.5	0.09	0.084	0.29	**	**	**	**
46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/12/96-08/21/96	50	316.	329.3	357.	305.	521.929	22.846	306.	307.	353.	356.
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/12/96-08/21/96	50	62.	63.8	68.	61.	6.49	2.548	62.	62.	67.	68.
70971	LIGHT, ATTENUATION COEFFICIENT (ALPHA/M)	06/12/96-08/21/96	2	0.266	0.266	0.352	0.179	0.015	0.122	**	**	**	**
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	06/12/96-08/21/96	9 ##	0.005	0.008	0.03	0.005	0.	0.008	0.005	0.005	0.005	0.03
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/12/96-08/21/96	50	8.65	6.664	20.9	0.	42.287	6.503	0.	0.	11.125	16.39
82127	WIND SPEED KNOTS	06/12/96-08/21/96	50	1.	2.28	5.	1.	3.553	1.885	1.	1.	5.	5.

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

EPA Water Quality Criteria Analysis for Station: APIS0087

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	50	0	0.00	16	0	0.00							34	0	0.00
00406	PH, FIELD	Fresh Chronic	9.	50	0	0.00	16	0	0.00							34	0	0.00
		Other-Lo Lim.	6.5	50	0	0.00	16	0	0.00							34	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	6	0	0.00	3	0	0.00							3	0	0.00
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	50	0	0.00	16	0	0.00							34	0	0.00

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

Station Inventory for Station: APIS0088

NPS Station ID: APIS0088
LAT/LON: 46.934726/ -90.671392
Agency: 112WRD
Date Created: 11/07/81
Location: LAKE SUPERIOR SITE 2 NEAR RED CLIFF, WI
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 465605090401700
RMI-Indexes:
Within Park Boundary: No
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: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0088

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/21/81-07/26/82	8	152.5	124.25	220.	0.	9707.929	98.529	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/21/81-07/26/82	6	9.	10.167	17.6	4.4	39.091	6.252	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/21/81-07/21/81	3	82.	79.333	83.	73.	30.333	5.508	**	**	**	**
00400	PH (STANDARD UNITS)	07/21/81-07/26/82	6	7.3	7.3	7.6	7.	0.056	0.237	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/21/81-07/26/82	6	7.289	7.248	7.6	7.	0.059	0.243	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/21/81-07/26/82	6	0.051	0.057	0.1	0.025	0.001	0.029	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/21/81-07/26/82	5 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/21/81-07/26/82	2	70.	70.	87.	53.	578.	24.042	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/21/81-07/26/82	6	1.55	1.533	1.9	1.1	0.091	0.301	**	**	**	**
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/21/81-07/26/82	2 ##	0.125	0.125	0.2	0.05	0.011	0.106	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	07/21/81-07/21/81	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/21/81-07/26/82	2	2.7	2.7	3.4	2.	0.98	0.99	**	**	**	**
39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39250	NAPTHALENES, POLYCHLORINATED (UG/L)	07/21/81-07/21/81	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	07/21/81-07/21/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	07/21/81-07/21/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	07/21/81-07/21/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	07/21/81-07/21/81	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	07/21/81-07/21/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/21/81-07/21/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/21/81-07/21/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/21/81-07/21/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**

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

Parameter Inventory for Station: APIS0088

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	07/21/81-07/21/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	07/21/81-07/21/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/21/81-07/21/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39755	MIREX, TOTAL (UG/L)	07/21/81-07/21/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	07/21/81-07/21/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
70330	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .031MM	07/26/82-07/26/82	1	5.	5.	5.	5.	0.	0.	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/21/81-07/21/81	3	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	07/21/81-07/26/82	6 ##	0.05	0.067	0.1	0.05	0.001	0.026	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/21/81-07/26/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/26/82-07/26/82	1	11.	11.	11.	11.	0.	0.	**	**	**	**
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/26/82-07/26/82	1	36.	36.	36.	36.	0.	0.	**	**	**	**
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/26/82-07/26/82	1	61.	61.	61.	61.	0.	0.	**	**	**	**
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/26/82-07/26/82	1	90.	90.	90.	90.	0.	0.	**	**	**	**
80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	07/26/82-07/26/82	1	98.	98.	98.	98.	0.	0.	**	**	**	**
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	07/26/82-07/26/82	1	99.	99.	99.	99.	0.	0.	**	**	**	**
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	07/26/82-07/26/82	1	100.	100.	100.	100.	0.	0.	**	**	**	**
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	07/21/81-07/21/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: APIS0088

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400	PH	Fresh Chronic	9.	6	0	0.00	6	0	0.00									
		Other-Lo Lim.	6.5	6	0	0.00	6	0	0.00									
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	3	0	0.00	3	0	0.00									
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	3	0	0.00	3	0	0.00									
		Drinking Water	0.2	3	0	0.00	3	0	0.00									
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	3	0	0.00	3	0	0.00									
		Drinking Water	2.	3	0	0.00	3	0	0.00									
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	3	0	0.00	3	0	0.00									
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	3	0	0.00	3	0	0.00									
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	3	0	0.00	3	0	0.00									
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	3	0	0.00	3	0	0.00									
39388	ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute	0.22	3	0	0.00	3	0	0.00									
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	3	0	0.00	3	0	0.00									
		Drinking Water	2.	3	0	0.00	3	0	0.00									
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	3	0	0.00	3	0	0.00									
		Drinking Water	3.	3	0	0.00	3	0	0.00									
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	3	0	0.00	3	0	0.00									
		Drinking Water	0.4	3	0	0.00	3	0	0.00									
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	3	0	0.00	3	0	0.00									
		Drinking Water	0.2	3	0	0.00	3	0	0.00									
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	3	0	0.00	3	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	6	0	0.00	6	0	0.00									
		Drinking Water	2.	6	0	0.00	6	0	0.00									

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

Station Inventory for Station: APIS0089

NPS Station ID: APIS0089 LAT/LON: 47.031670/ -90.671670 Agency: 11NPSWRD Date Created: 10/10/98
Location: LK SUPERIOR SITE 8 NR ROCKY & S TWIN ISLANDS WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): APIS_USGS_RS8
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE ROCKY ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. LAKE SUPERIOR SITE 8 IS NEAR ROCKY ISLAND & SOUTH TWIN ISLAND AND IS OUTSIDE THE APOSTLE ISLAND NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE UNITED STATES GEOLOGICAL SURVEY WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY WILLIAM J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVES OF THE REPORT WERE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE USGS DURING 1979-1984 WATER YEARS AND TO PROVIDE A QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF THE LAKESHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0089

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	07/25/83-07/25/83	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/25/83-07/25/83	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/25/83-07/25/83	1	810.	810.	810.	810.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/25/83-07/25/83	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/25/83-07/25/83	1	4.	4.	4.	4.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0090

NPS Station ID: APIS0090 LAT/LON: 47.031670/ -90.671670 Agency: 112WRD Date Created: 01/21/84
Location: LK SUPERIOR SITE 8 NR ROCKY & S TWIN ISLANDS, WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 470154090401801
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010302 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 04010302 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0090

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/83-07/25/83	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/83-07/25/83	1	17.5	17.5	17.5	17.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/25/83-07/25/83	1	96.	96.	96.	96.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/25/83-07/25/83	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/25/83-07/25/83	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/25/83-07/25/83	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/25/83-07/25/83	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/83-07/25/83	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/25/83-07/25/83	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0090

			Total	Exceed	Prop.	7/15-11/30			12/01-2/29			3/01-4/14			4/15-7/14		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0091

NPS Station ID: APIS0091 LAT/LON: 47.029170/ -90.674448 Agency: 112WRD Date Created: 11/07/81
Location: LAKE SUPERIOR AT DOCK ON ROCKY ISLAND, WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 470145090402800
RMI-Indexes: Within Park Boundary: No
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: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0091

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/81-09/09/81	2	17.5	17.5	18.	17.	0.5	0.707	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/23/81-07/23/81	1	97.	97.	97.	97.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/09/81-09/09/81	1	9.4	9.4	9.4	9.4	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/81-09/09/81	1	101.	101.	101.	101.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/23/81-07/23/81	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/23/81-07/23/81	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/23/81-07/23/81	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/81-07/23/81	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	07/23/81-09/09/81	2 ##	1.75	1.75	3.	0.5	3.125	1.768	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	07/23/81-09/09/81	2 ##	0.088	0.088	0.477	-0.301	0.303	0.55	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			1.225								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/23/81-09/09/81	2	15.5	15.5	29.	2.	364.5	19.092	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/23/81-09/09/81	2	0.882	0.882	1.462	0.301	0.674	0.821	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			7.616								
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/23/81-07/23/81	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0091

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: APIS0092

NPS Station ID: APIS0092 LAT/LON: 47.026670/ -90.675004 Agency: 112WRD Date Created: 01/21/84
Location: LK SUPERIOR SITE 9 NR ROCKY & S TWIN ISLANDS, WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 470136090403001
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010302 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 04010302 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0092

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/83-07/25/83	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/25/83-07/25/83	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/25/83-07/25/83	1	570.	570.	570.	570.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/25/83-07/25/83	1	850.	850.	850.	850.	0.	0.	**	**	**	**
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/25/83-07/25/83	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/25/83-07/25/83	1	12.	12.	12.	12.	0.	0.	**	**	**	**
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/25/83-07/25/83	1	2.	2.	2.	2.	0.	0.	**	**	**	**
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/25/83-07/25/83	1	9.	9.	9.	9.	0.	0.	**	**	**	**
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/25/83-07/25/83	1	27.	27.	27.	27.	0.	0.	**	**	**	**
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/25/83-07/25/83	1	84.	84.	84.	84.	0.	0.	**	**	**	**
80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	07/25/83-07/25/83	1	96.	96.	96.	96.	0.	0.	**	**	**	**
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	07/25/83-07/25/83	1	99.	99.	99.	99.	0.	0.	**	**	**	**
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	07/25/83-07/25/83	1	100.	100.	100.	100.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0093

NPS Station ID: APIS0093 | LAT/LON: 47.026670/ -90.675004 | Agency: 11NPSWRD | Date Created: 10/03/98
Location: LK SUPERIOR SITE 9 NR ROCKY & S TWIN ISLANDS WI | FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE | STORET Station ID(s): APIS_USGS_RS9
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 04010301 | Depth of Water: 0 | Aquifer:
Major Basin: LAKE SUPERIOR | Elevation: 0 | Water Body Id:
Minor Basin: MONTREAL | ECO Region:
RF1 Index: 04010301 | RF1 Mile Point: 0.000 | Distance from RF1: 13.80 | On/Off RF1:
RF3 Index: 04010301001007.02 | RF3 Mile Point: 10.66 | Distance from RF3: 1.27 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE ROCKY ISLAND WISCONSIN-ASHLAND CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE LAKE SUPERIOR SITE 9 NEAR ROCKY ISLAND & SOUTH TWIN ISLAND IS LOCATED OUTSIDE THE APOSTLE ISLAND NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE UNITED STATES GEOLOGICAL SURVEY WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY WILLIAM J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVES OF THE REPORT ARE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE USGS DURING 1979-1984 WATER YEARS AND TO PROVIDE A QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE." DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0093

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/83-07/25/83	1	17.5	17.5	17.5	17.5	0.	0.	**	**	**	**
00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	07/25/83-07/25/83	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/25/83-07/25/83	1	95.	95.	95.	95.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/25/83-07/25/83	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/25/83-07/25/83	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/25/83-07/25/83	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/83-07/25/83	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/25/83-07/25/83	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: APIS0093

			Total	Exceed	Prop.	7/15-11/30			12/01-2/29			3/01-4/14			4/15-7/14		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400 PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0094

NPS Station ID: APIS0094
LAT/LON: 46.841670/ -90.675004
Agency: 21WIDNR
Date Created: 08/08/78
Location: LAKE SUPERIOR N OF MADELINE IS
FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 114
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 999
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: WISC + MINN DRAINAGE
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
DATA FROM WISCONSIN DEPARTMENT OF NATURAL RESOURCES FISH SAMPLING PROGRAMS FOR MERCURY, PCBS, AND PESTICIDES
SAMPLE TAKEN FROM LAKE SUPERIOR NORTH OF MADELINE ISLAND

Parameter Inventory for Station: APIS0094

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/11/76-11/09/76	5	62.	153.2	291.	61.	15824.2	125.794	**	**	**	**
00024	SAMPLE LENGTH IN INCHES	08/11/76-11/09/76	5	10.9	13.34	17.3	10.6	13.083	3.617	**	**	**	**
39105	PERCENT FAT HEXANE EXTRACTION	08/11/76-11/08/76	3	7.9	11.433	18.8	7.6	40.723	6.381	**	**	**	**
39515	PCBS (MG/KG) FISH TISSUE MG/KG	08/11/76-11/08/76	3	0.73	0.763	1.1	0.46	0.103	0.321	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	08/12/76-11/09/76	2	0.11	0.11	0.18	0.04	0.01	0.099	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	08/11/76-11/09/76	5	4.	2.8	4.	1.	2.7	1.643	**	**	**	**

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

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

Station Inventory for Station: APIS0095

NPS Station ID: APIS0095
LAT/LON: 46.748892/ -90.702504
Agency: AIJCCCIW
Date Created: 04/09/88
Location: OPEN LAKE STATION
FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): C85SU196
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 101
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: OPEN LAKE STATION
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0095

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/16/85-05/16/85	2	1.5	1.5	3.	0.	4.5	2.121	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/85-05/16/85	2	6.05	6.05	6.1	6.	0.005	0.071	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/16/85-05/16/85	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	05/16/85-05/16/85	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/85-05/16/85	1	92.	92.	92.	92.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/16/85-05/16/85	1	12.9	12.9	12.9	12.9	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/16/85-05/16/85	1	106.	106.	106.	106.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/16/85-05/16/85	1	7.92	7.92	7.92	7.92	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/16/85-05/16/85	1	7.92	7.92	7.92	7.92	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/16/85-05/16/85	1	0.012	0.012	0.012	0.012	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/16/85-05/16/85	1	89.	89.	89.	89.	0.	0.	**	**	**	**
00601	NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	05/16/85-05/16/85	1	0.027	0.027	0.027	0.027	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/16/85-05/16/85	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/16/85-05/16/85	1	0.092	0.092	0.092	0.092	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/16/85-05/16/85	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/16/85-05/16/85	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/16/85-05/16/85	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/16/85-05/16/85	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/16/85-05/16/85	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/16/85-05/16/85	1	13.1	13.1	13.1	13.1	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/16/85-05/16/85	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/16/85-05/16/85	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/85-05/16/85	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/16/85-05/16/85	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/16/85-05/16/85	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/16/85-05/16/85	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/16/85-05/16/85	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/16/85-05/16/85	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/16/85-05/16/85	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/16/85-05/16/85	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/16/85-05/16/85	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/16/85-05/16/85	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/16/85-05/16/85	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/16/85-05/16/85	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/16/85-05/16/85	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	05/16/85-05/16/85	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/16/85-05/16/85	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/16/85-05/16/85	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**

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Parameter Inventory for Station: APIS0095

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/16/85-05/16/85	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/16/85-05/16/85	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	05/16/85-05/16/85	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/16/85-05/16/85	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/16/85-05/16/85	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	05/16/85-05/16/85	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/16/85-05/16/85	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/16/85-05/16/85	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/16/85-05/16/85	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/16/85-05/16/85	1	40.	40.	40.	40.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	05/16/85-05/16/85	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/16/85-05/16/85	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	05/16/85-05/16/85	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: APIS0095

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	1	0	0.00										1	0	0.00
00400	PH	Fresh Chronic	9.	1	0	0.00										1	0	0.00
		Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00										1	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00										1	0	0.00
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00										1	0	0.00
		Drinking Water	50.	1	0	0.00										1	0	0.00
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00										1	0	0.00
		Drinking Water	50.	1	0	0.00										1	0	0.00
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00										1	0	0.00
		Drinking Water	5.	1	0	0.00										1	0	0.00
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00										1	0	0.00
		Drinking Water	5.	1	0	0.00										1	0	0.00
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00										1	0	0.00
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00										1	0	0.00
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00										1	0	0.00
		Drinking Water	1300.	1	0	0.00										1	0	0.00
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00										1	0	0.00
		Drinking Water	1300.	1	0	0.00										1	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00										1	0	0.00
		Drinking Water	15.	1	0	0.00										1	0	0.00
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00										1	0	0.00
		Drinking Water	15.	1	0	0.00										1	0	0.00
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00										1	0	0.00
		Drinking Water	100.	1	0	0.00										1	0	0.00
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00										1	0	0.00
		Drinking Water	100.	1	0	0.00										1	0	0.00
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00										1	0	0.00
		Drinking Water	5000.	1	0	0.00										1	0	0.00
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00										1	0	0.00
		Drinking Water	5000.	1	0	0.00										1	0	0.00
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00										1	0	0.00
		Drinking Water	50.	1	0	0.00										1	0	0.00
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00										1	0	0.00
		Drinking Water	50.	1	0	0.00										1	0	0.00
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00										1	0	0.00
		Drinking Water	2.	1	0	0.00										1	0	0.00
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00										1	0	0.00
		Drinking Water	2.	1	0	0.00										1	0	0.00
82295	CHLORIDE DISSOLVED AS CL IN WATER	Fresh Acute	860000.	1	0	0.00										1	0	0.00
		Drinking Water	250000.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: APIS0096

NPS Station ID: APIS0096
Location: OPEN LAKE STATION
Station Type: /TYPA/AMBNT/LAKE
RMI-Indexes:
RMI-Miles:
HUC: 04020300
Major Basin:
Minor Basin:
RF1 Index: 04020300
RF3 Index: 04010301001007.02
Description:

LAT/LON: 46.749170/ -90.702504
Depth of Water: 98
Elevation: 0
RF1 Mile Point: 0.000
RF3 Mile Point: 10.66

Agency: AIJCCCIW
FIPS State/County: 00996 CANADA/
STORET Station ID(s): C90SU196
Within Park Boundary: No
Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 13.80
Distance from RF3: 1.27

Date Created: 12/17/94
On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: APIS0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/07/90-09/07/90	10	79.	53.2	92.	0.	2028.178	45.035	0.	2.25	92.	92.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/07/90-09/07/90	2	10.2	10.2	16.4	4.	76.88	8.768	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/07/90-09/07/90	4	102.5	102.75	104.	102.	0.917	0.957	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/07/90-09/07/90	4	11.5	11.775	13.8	10.3	2.809	1.676	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/07/90-09/07/90	4	107.5	110.	118.	107.	28.667	5.354	**	**	**	**
00400	PH (STANDARD UNITS)	05/07/90-09/07/90	4	7.065	7.09	7.25	6.98	0.013	0.114	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/07/90-09/07/90	4	7.065	7.079	7.25	6.98	0.013	0.115	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/07/90-09/07/90	4	0.086	0.083	0.105	0.056	0.	0.02	**	**	**	**
00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/07/90-09/07/90	2	0.033	0.033	0.035	0.03	0.	0.004	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/07/90-05/07/90	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/07/90-09/07/90	4	0.117	0.126	0.212	0.058	0.004	0.065	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/07/90-05/07/90	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/07/90-09/07/90	4	0.003	0.003	0.003	0.002	0.	0.001	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/07/90-09/07/90	4	0.002	0.002	0.002	0.001	0.	0.001	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/07/90-05/07/90	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/07/90-09/07/90	2	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/07/90-09/07/90	4	13.3	13.325	13.4	13.3	0.002	0.05	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/07/90-05/07/90	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/07/90-05/07/90	1	1.38	1.38	1.38	1.38	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/07/90-05/07/90	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/07/90-09/07/90	4	1.	1.	1.	1.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/07/90-09/07/90	4	3.1	3.125	3.2	3.1	0.003	0.05	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/07/90-09/07/90	4	2.25	2.275	2.4	2.2	0.009	0.096	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/07/90-09/07/90	2	0.95	0.95	1.3	0.6	0.245	0.495	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/07/90-09/07/90	2	0.65	0.65	1.	0.3	0.245	0.495	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/07/90-09/07/90	4	41.5	41.5	42.	41.	0.333	0.577	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0096

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	4	0	0.00	3	0	0.00							1	0	0.00
00400	PH	Fresh Chronic	9.	4	0	0.00	3	0	0.00							1	0	0.00
		Other-Lo Lim.	6.5	4	0	0.00	3	0	0.00							1	0	0.00

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

EPA Water Quality Criteria Analysis for Station: APIS0096

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00										1	0	0.00
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	4	0	0.00	3	0	0.00							1	0	0.00
		Drinking Water	250.	4	0	0.00	3	0	0.00							1	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	4	0	0.00	3	0	0.00							1	0	0.00

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

Station Inventory for Station: APIS0097

NPS Station ID: APIS0097
LAT/LON: 46.747781/ -90.703060
Agency: AIJCCCIW
Date Created: 04/09/88
Location: OPEN LAKE STATION
FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): C86SU196
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 111
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: OPEN LAKE STATION
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0097

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/16/86-05/07/89	16	62.5	50.125	102.	0.	1681.05	41.001	0.	3.	84.25	99.2
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/86-05/07/89	14	6.1	5.679	11.	1.5	9.496	3.082	1.5	2.75	7.1	11.
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/16/86-05/16/86	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	05/16/86-05/16/86	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/86-05/17/87	2	96.5	96.5	99.	94.	12.5	3.536	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/16/86-05/07/89	3	12.9	13.067	13.9	12.4	0.583	0.764	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/16/86-05/07/89	3	107.	107.333	114.	101.	42.333	6.506	**	**	**	**
00400	PH (STANDARD UNITS)	05/16/86-05/07/89	3	7.88	7.93	8.05	7.86	0.011	0.104	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/16/86-05/07/89	3	7.88	7.922	8.05	7.86	0.011	0.105	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/16/86-05/07/89	3	0.013	0.012	0.014	0.009	0.	0.003	**	**	**	**
00601	NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	05/17/87-05/07/89	2 ##	0.009	0.009	0.017	0.001	0.	0.011	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/16/86-05/07/89	3	0.002	0.002	0.002	0.001	0.	0.001	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/07/89-05/07/89	1	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/16/86-05/07/89	3	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/16/86-05/07/89	3	0.004	0.006	0.009	0.004	0.	0.003	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/16/86-05/07/89	3	0.002	0.002	0.003	0.002	0.	0.001	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/16/86-05/07/89	3	0.001	0.001	0.001	0.	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	05/16/86-05/17/87	2	1.8	1.8	2.	1.6	0.08	0.283	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/17/87-05/07/89	2	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/16/86-05/07/89	3	13.	13.133	13.4	13.	0.053	0.231	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/17/87-05/07/89	2	2.75	2.75	2.8	2.7	0.005	0.071	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/17/87-05/07/89	2	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/17/87-05/07/89	2	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/16/86-05/07/89	3	3.3	3.233	3.4	3.	0.043	0.208	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/16/86-05/07/89	3	2.5	2.6	2.8	2.5	0.03	0.173	**	**	**	**
32000	SAMPLE SIZE (LITERS)	05/17/87-05/17/87	1	55.	55.	55.	55.	0.	0.	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/17/87-05/07/89	2	1.65	1.65	2.	1.3	0.245	0.495	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/17/87-05/07/89	2	1.5	1.5	1.7	1.3	0.08	0.283	**	**	**	**
34367	ENDRIN ALDEHYDE DISSUG/L	05/17/87-05/17/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
34536	1,2-DICHLOROBENZENE TOTWUG/L	05/17/87-05/17/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
34551	1,2,4-TRICHLOROBENZENE TOTWUG/L	05/17/87-05/17/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
34571	1,4-DICHLOROBENZENE TOTWUG/L	05/17/87-05/17/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/16/86-05/07/89	3	41.	40.667	41.	40.	0.333	0.577	**	**	**	**
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	05/17/87-05/17/87	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	05/17/87-05/17/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	05/17/87-05/17/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	05/17/87-05/17/87	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	05/17/87-05/17/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: APIS0097

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	05/17/87-05/17/87	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
77613	1,2,3-TRICHLOROBENZENE WHOLE WATER,UG/L	05/17/87-05/17/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
77736	1,2,3,4-TETRACHLOROBENZENE WHOLE WATER,UG/L	05/17/87-05/17/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
77793	PENTACHLOROBENZENE WHOLE WATER,UG/L	05/17/87-05/17/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	05/16/86-05/07/89	3	1.3	1.333	1.5	1.2	0.023	0.153	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0097

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	3	0	0.00										3	0	0.00
00400	PH	Fresh Chronic	9.	3	0	0.00										3	0	0.00
		Other-Lo Lim.	6.5	3	0	0.00										3	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00										3	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	3	0	0.00										3	0	0.00
34536	1,2-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00										1	0	0.00
34551	1,2,4-TRICHLOROBENZENE, TOTAL	Drinking Water	70.	1	0	0.00										1	0	0.00
34571	1,4-DICHLOROBENZENE, TOTAL	Drinking Water	75.	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
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00										1	0	0.00
		Drinking Water	0.2	1	0	0.00										1	0	0.00
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	Fresh Acute	6.	1	0	0.00										1	0	0.00
		Drinking Water	1.	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
82295	CHLORIDE DISSOLVED AS CL IN WATER	Fresh Acute	860000.	3	0	0.00										3	0	0.00
		Drinking Water	250000.	3	0	0.00										3	0	0.00

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

Station Inventory for Station: APIS0098

NPS Station ID: APIS0098
LAT/LON: 46.748337/ -90.703337
Agency: AIJCCCIW
Date Created: 12/17/94
Location: OPEN LAKE STATION
FIPS State/County: 00996 CANADA/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): C89SU196
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 98
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/07/89-05/07/89	4	34.5	33.75	66.	0.	1388.25	37.259	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/07/89-05/07/89	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/07/89-05/07/89	1	13.9	13.9	13.9	13.9	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/07/89-05/07/89	1	101.	101.	101.	101.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/07/89-05/07/89	1	7.86	7.86	7.86	7.86	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/07/89-05/07/89	1	7.86	7.86	7.86	7.86	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/07/89-05/07/89	1	0.014	0.014	0.014	0.014	0.	0.	**	**	**	**
00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/07/89-05/07/89	1	0.017	0.017	0.017	0.017	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/07/89-05/07/89	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/07/89-05/07/89	1	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/07/89-05/07/89	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/07/89-05/07/89	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/07/89-05/07/89	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/07/89-05/07/89	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/07/89-05/07/89	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/07/89-05/07/89	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/07/89-05/07/89	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/07/89-05/07/89	1	1.35	1.35	1.35	1.35	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/07/89-05/07/89	1	0.53	0.53	0.53	0.53	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/07/89-05/07/89	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/07/89-05/07/89	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/07/89-05/07/89	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/07/89-05/07/89	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/07/89-05/07/89	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/07/89-05/07/89	1	40.	40.	40.	40.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0098

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00										1	0	0.00
00400	PH	Fresh Chronic	9.	1	0	0.00										1	0	0.00
		Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00

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

EPA Water Quality Criteria Analysis for Station: APIS0098

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00										1	0	0.00
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00										1	0	0.00
		Drinking Water	250.	1	0	0.00										1	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: APIS0099

NPS Station ID: APIS0099 LAT/LON: 46.748337/ -90.703337 Agency: AIJCCCIW Date Created: 02/09/78
Location: 2 MI SOUTH OF MADELINE I.,WIS. FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): C73SU196
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04020300 Depth of Water: 1246 Aquifer:
Major Basin: GREAT LAKES Elevation: 0 Water Body Id:
Minor Basin: L. SUPERIOR CANADIAN 1973 STATION #196 ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 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. USEPA CONTACTS: NELSON THOMAS OR WILLIAM RICHARDSON, 313-226-7811. DATA FOR THIS STATION IN 1973 WAS COLLECTED IN PART FOR THE IJC INTERNATIONAL SURVEILLANCE PROGRAM FOR THE GREAT LAKES. ADDITIONAL INFORMATION ON GREAT LAKES CANADIAN DATA IS ON DATA SET CN.EPANAT.CNLL.CANADA.NEWS AT THE STORET COMPUTER SITE.

Parameter Inventory for Station: APIS0099

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/22/73-11/27/73	29	16.	35.931	118.	0.	1412.995	37.59	0.	3.	81.	91.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/73-11/27/73	28	6.35	9.604	19.1	4.	28.579	5.346	4.45	4.725	15.	18.81
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	05/22/73-11/27/73	15	51.	41.8	66.	10.	340.457	18.451	15.4	20.	56.	63.6
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/22/73-11/27/73	23	0.8	1.174	3.9	0.3	0.987	0.994	0.4	0.5	1.6	3.02
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/22/73-11/27/73	2	4.	4.	5.	3.	2.	1.414	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	05/22/73-11/27/73	2	9.	9.	9.	9.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/22/73-11/27/73	23	12.2	11.717	13.5	9.6	1.592	1.262	9.72	10.5	12.7	13.34
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/26/73-11/27/73	18	100.5	101.667	112.	94.	22.353	4.728	96.7	97.75	105.25	108.4
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/22/73-11/27/73	18	42.	42.611	47.	40.	3.781	1.944	40.9	41.	44.25	46.1
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/22/73-11/27/73	23	0.007	0.007	0.015	0.002	0.	0.004	0.002	0.004	0.01	0.014
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/22/73-11/27/73	23	0.3	0.287	0.4	0.2	0.003	0.055	0.2	0.3	0.3	0.36
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/73-11/27/73	15	0.01	0.009	0.017	0.005	0.	0.003	0.005	0.006	0.011	0.015
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/22/73-11/27/73	15	0.005	0.006	0.016	0.002	0.	0.004	0.002	0.003	0.008	0.012
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/22/73-11/27/73	23	0.001	0.002	0.011	0.	0.	0.002	0.001	0.001	0.002	0.005
00940	CHLORIDE,TOTAL IN WATER MG/L	05/22/73-09/16/73	10	1.	1.3	2.	1.	0.233	0.483	1.	1.	2.	2.
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/22/73-11/27/73	23	2.4	2.391	2.6	1.9	0.035	0.188	2.08	2.3	2.5	2.6
31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	06/26/73-11/27/73	11	8.	24.281	201.	0.03	3471.581	58.92	0.03	0.03	15.	163.8
31503	LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	06/26/73-11/27/73	11	0.903	0.337	2.303	-1.523	1.72	1.311	-1.523	-1.523	1.176	2.078
31503	GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =			2.172								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/22/73-09/16/73	2	1.	1.	1.	1.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/22/73-09/16/73	2	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/22/73-11/27/73	6	4.	8.333	24.	1.	90.267	9.501	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/22/73-11/27/73	6	0.588	0.627	1.38	0.	0.343	0.586	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			4.234								
31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	06/26/73-11/27/73	7	202.	200.429	271.	112.	2990.619	54.687	**	**	**	**

** - Less than 9 observations ## - 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: APIS0099

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31749	LOG PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	06/26/73-11/27/73	7	2.305	2.286	2.433	2.049	0.017	0.132	**	**	**	**
31749	GM PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	GEOMETRIC MEAN =			193.227								
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	05/22/73-11/27/73	10	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39305	O,P' DDT IN WHOLE WATER SAMPLE (UG/L)	05/22/73-11/27/73	10	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	05/22/73-11/27/73	10	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	05/22/73-11/27/73	10	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	05/22/73-11/27/73	10	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39348	CHLORDANE, ALPHA, IN WHOLE WATER SAMPLE (UG/L)	05/22/73-11/27/73	10	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	05/22/73-11/27/73	10	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	05/22/73-11/27/73	10	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	05/22/73-11/27/73	10	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	05/22/73-11/27/73	10	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	05/22/73-11/27/73	10	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	05/22/73-11/27/73	10	0.1	0.1	0.1	0.1	0.	0.	0.1	0.1	0.1	0.1
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	05/22/73-11/27/73	10	0.1	0.1	0.1	0.1	0.	0.	0.1	0.1	0.1	0.1
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	05/22/73-11/27/73	10	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

EPA Water Quality Criteria Analysis for Station: APIS0099

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	23	0	0.00	13	0	0.00							10	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	23	0	0.00	13	0	0.00							10	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	23	0	0.00	13	0	0.00							10	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	10	0	0.00	5	0	0.00							5	0	0.00
		Drinking Water	250.	10	0	0.00	5	0	0.00							5	0	0.00
31503	COLIFORM,TOT,MEMBRANE FILTR,DELAY. M-END	Other-Hi Lim.	1000.	11	0	0.00	8	0	0.00							3	0	0.00
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	2	0	0.00	1	0	0.00							1	0	0.00
39300	P,P' DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	10	0	0.00	6	0	0.00							4	0	0.00
39310	P,P' DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	10	0	0.00	6	0	0.00							4	0	0.00
39320	P,P' DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	10	0	0.00	6	0	0.00							4	0	0.00
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	10	0	0.00	6	0	0.00							4	0	0.00
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	10	0	0.00	6	0	0.00							4	0	0.00
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	10	0	0.00	6	0	0.00							4	0	0.00
		Drinking Water	2.	10	0	0.00	6	0	0.00							4	0	0.00
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	10	0	0.00	6	0	0.00							4	0	0.00
		Drinking Water	0.4	10	0	0.00	6	0	0.00							4	0	0.00
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	10	0	0.00	6	0	0.00							4	0	0.00
		Drinking Water	0.2	10	0	0.00	6	0	0.00							4	0	0.00
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	10	0	0.00	6	0	0.00							4	0	0.00
39782	LINDANE IN WHOLE WATER SAMPLE	Fresh Acute	2.	10	0	0.00	6	0	0.00							4	0	0.00
		Drinking Water	0.2	10	0	0.00	6	0	0.00							4	0	0.00

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

Station Inventory for Station: APIS0100

NPS Station ID: APIS0100
LAT/LON: 46.747504/ -90.703337
Agency: AIJCCCIW
Date Created: 12/17/94
Location: OPEN LAKE STATION
FIPS State/County: 00996 CANADA/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): C91SU196
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 101
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/15/91-09/03/91	14	64.	57.214	112.	0.	1924.797	43.873	0.	3.	95.	112.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/91-09/03/91	2	15.25	15.25	18.7	11.8	23.805	4.879	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/15/91-05/15/91	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	05/15/91-05/15/91	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/91-09/03/91	7	99.	99.143	102.	96.	4.143	2.035	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/15/91-09/03/91	7	11.9	11.271	12.3	9.4	1.482	1.218	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/15/91-09/03/91	7	97.	102.	116.	97.	55.333	7.439	**	**	**	**
00400	PH (STANDARD UNITS)	05/15/91-09/03/91	7	7.66	7.68	8.11	7.37	0.077	0.277	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/15/91-09/03/91	7	7.66	7.611	8.11	7.37	0.082	0.287	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/15/91-09/03/91	7	0.022	0.025	0.043	0.008	0.	0.014	**	**	**	**
00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/15/91-09/03/91	3	0.03	0.028	0.031	0.023	0.	0.004	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/15/91-05/15/91	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/15/91-09/03/91	7	0.086	0.087	0.123	0.067	0.	0.018	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/15/91-05/15/91	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/15/91-09/03/91	7	0.004	0.004	0.009	0.003	0.	0.002	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/15/91-09/03/91	7	0.001	0.001	0.004	0.001	0.	0.001	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/15/91-05/15/91	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/15/91-09/03/91	3	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/15/91-05/15/91	1	12.8	12.8	12.8	12.8	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/15/91-05/15/91	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/91-05/15/91	1	1.47	1.47	1.47	1.47	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/91-05/15/91	1	0.55	0.55	0.55	0.55	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/15/91-09/03/91	7	1.	1.	1.	1.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/15/91-09/03/91	7	3.4	3.4	3.8	2.9	0.103	0.321	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/15/91-09/03/91	7	2.6	2.471	2.9	2.1	0.096	0.309	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/15/91-09/03/91	3	1.4	1.3	1.4	1.1	0.03	0.173	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/15/91-09/03/91	3	1.	0.967	1.1	0.8	0.023	0.153	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/15/91-09/03/91	7	38.	37.714	39.	36.	1.238	1.113	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0100

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	7	0	0.00	6	0	0.00							1	0	0.00
00400	PH	Fresh Chronic	9.	7	0	0.00	6	0	0.00							1	0	0.00
		Other-Lo Lim.	6.5	7	0	0.00	6	0	0.00							1	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00										1	0	0.00
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	7	0	0.00	6	0	0.00							1	0	0.00
		Drinking Water	250.	7	0	0.00	6	0	0.00							1	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	7	0	0.00	6	0	0.00							1	0	0.00

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

Station Inventory for Station: APIS0101

NPS Station ID: APIS0101
LAT/LON: 46.747504/ -90.703337
Agency: AIJCCCIW
Date Created: 12/17/94
Location: OPEN LAKE STATION
FIPS State/County: 00996 CANADA/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): C92SU196
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 95
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0101

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/11/92-09/09/92	11	43.	45.909	95.	0.	1801.491	42.444	0.	3.	89.	95.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/11/92-09/09/92	2	9.5	9.5	14.2	4.8	44.18	6.647	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/11/92-09/09/92	2	6.25	6.25	6.5	6.	0.125	0.354	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	05/11/92-09/09/92	2	7.	7.	9.	5.	8.	2.828	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/11/92-09/09/92	6	100.	99.833	104.	97.	7.367	2.714	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/11/92-09/09/92	6	11.35	11.5	14.2	10.2	2.104	1.451	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/11/92-09/09/92	6	101.5	101.667	113.	96.	38.667	6.218	**	**	**	**
00400	PH (STANDARD UNITS)	05/11/92-09/09/92	6	7.65	7.558	7.76	7.06	0.065	0.255	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/11/92-09/09/92	6	7.649	7.48	7.76	7.06	0.072	0.269	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/11/92-09/09/92	6	0.022	0.033	0.087	0.017	0.001	0.027	**	**	**	**
00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/11/92-09/09/92	2	0.025	0.025	0.028	0.022	0.	0.004	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/11/92-05/11/92	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/11/92-09/09/92	6	0.109	0.106	0.128	0.075	0.	0.018	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/11/92-05/11/92	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/11/92-09/09/92	6	0.005	0.004	0.005	0.003	0.	0.001	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/11/92-09/09/92	6	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/11/92-05/11/92	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/11/92-09/09/92	2	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/11/92-05/11/92	1	13.2	13.2	13.2	13.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/11/92-05/11/92	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/11/92-05/11/92	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/11/92-05/11/92	1	0.46	0.46	0.46	0.46	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/11/92-09/09/92	6	1.	1.167	2.	1.	0.167	0.408	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/11/92-09/09/92	6	3.1	3.2	3.7	3.	0.064	0.253	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/11/92-09/09/92	6	2.45	2.4	2.6	2.2	0.028	0.167	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/11/92-09/09/92	2	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/11/92-09/09/92	2	0.35	0.35	0.4	0.3	0.005	0.071	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/11/92-09/09/92	6	42.	41.5	43.	38.	3.1	1.761	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0101

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	6	0	0.00	5	0	0.00							1	0	0.00
00400	PH	Fresh Chronic	9.	6	0	0.00	5	0	0.00							1	0	0.00
		Other-Lo Lim.	6.5	6	0	0.00	5	0	0.00							1	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00										1	0	0.00
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	6	0	0.00	5	0	0.00							1	0	0.00
		Drinking Water	250.	6	0	0.00	5	0	0.00							1	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	6	0	0.00	5	0	0.00							1	0	0.00

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

Station Inventory for Station: APIS0102

NPS Station ID: APIS0102
LAT/LON: 46.748337/ -90.703615
Agency: AIJCCCIW
Date Created: 11/02/85
Location: OPEN LAKE STATION
FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): C83SU196
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 95
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: OPEN LAKE STATION
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0102

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/24/83-10/22/83	29	43.	46.966	98.	0.	1350.392	36.748	0.	3.	89.	92.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/24/83-10/22/83	20	9.25	8.78	12.5	4.7	7.649	2.766	5.21	5.625	11.775	12.36
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/24/83-06/28/83	2	5.5	5.5	6.	5.	0.5	0.707	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	05/24/83-06/28/83	2	12.5	12.5	16.	9.	24.5	4.95	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/24/83-10/22/83	16	106.5	105.813	115.	98.	18.029	4.246	98.7	104.25	108.	111.5
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/24/83-10/22/83	16	12.05	12.106	14.	11.1	0.745	0.863	11.1	11.3	12.825	13.3
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/24/83-10/22/83	16	105.	104.938	114.	98.	26.196	5.118	98.	101.	109.	113.3
00400	PH (STANDARD UNITS)	05/24/83-10/22/83	16	8.025	7.978	8.1	7.6	0.02	0.142	7.656	7.973	8.065	8.1
00400	CONVERTED PH (STANDARD UNITS)	05/24/83-10/22/83	16	8.025	7.952	8.1	7.6	0.021	0.145	7.656	7.972	8.065	8.1
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/24/83-10/22/83	16	0.009	0.011	0.025	0.008	0.	0.005	0.008	0.009	0.011	0.022
00601	NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	05/24/83-10/22/83	10	0.021	0.024	0.032	0.02	0.	0.005	0.02	0.02	0.03	0.032
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/24/83-10/22/83	16	0.001	0.002	0.004	0.001	0.	0.001	0.001	0.001	0.002	0.003
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/24/83-10/22/83	16	0.098	0.097	0.13	0.065	0.	0.018	0.071	0.081	0.11	0.123
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/24/83-10/22/83	16	0.3	0.3	0.3	0.3	0.	0.	0.3	0.3	0.3	0.3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/24/83-10/22/83	16	0.004	0.004	0.005	0.003	0.	0.	0.003	0.004	0.004	0.004
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/24/83-10/22/83	16	0.002	0.002	0.003	0.001	0.	0.001	0.001	0.002	0.002	0.002
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/24/83-10/22/83	16	0.	0.	0.001	0.	0.	0.	0.	0.	0.001	0.001
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	05/24/83-10/22/83	16	1.6	1.681	2.4	1.1	0.102	0.319	1.31	1.5	1.8	2.26
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/24/83-10/22/83	10	0.2	0.2	0.2	0.2	0.	0.	0.2	0.2	0.2	0.2
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/24/83-10/22/83	12	13.25	13.283	13.8	13.	0.054	0.233	13.03	13.1	13.475	13.71
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/24/83-10/22/83	12	2.8	2.767	2.8	2.7	0.002	0.049	2.7	2.7	2.8	2.8
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/24/83-10/22/83	12	1.3	1.292	1.4	1.2	0.006	0.079	1.2	1.2	1.375	1.4
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/24/83-10/22/83	12	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/24/83-10/22/83	16	3.4	3.431	3.6	3.3	0.008	0.087	3.3	3.4	3.5	3.53
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/24/83-10/22/83	16	2.35	2.35	2.5	2.1	0.012	0.11	2.17	2.3	2.4	2.5
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/24/83-10/22/83	10	1.3	1.33	1.8	1.2	0.033	0.183	1.2	1.2	1.4	1.76
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/24/83-10/22/83	10	0.9	0.98	1.6	0.8	0.053	0.23	0.8	0.875	1.	1.54
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/24/83-10/22/83	16	43.	43.25	48.	39.	7.533	2.745	39.	41.25	45.5	48.
82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	05/24/83-10/22/83	16	1.3	1.313	1.6	1.2	0.008	0.089	1.2	1.3	1.3	1.46

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

EPA Water Quality Criteria Analysis for Station: APIS0102

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	16	0	0.00	7	0	0.00							9	0	0.00
00400	PH	Fresh Chronic	9.	16	0	0.00	7	0	0.00							9	0	0.00
		Other-Lo Lim.	6.5	16	0	0.00	7	0	0.00							9	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	16	0	0.00	7	0	0.00							9	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	16	0	0.00	7	0	0.00							9	0	0.00
82295	CHLORIDE DISSOLVED AS CL IN WATER	Fresh Acute	860000.	16	0	0.00	7	0	0.00							9	0	0.00
		Drinking Water	250000.	16	0	0.00	7	0	0.00							9	0	0.00

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

Station Inventory for Station: APIS0103

NPS Station ID: APIS0103
LAT/LON: 46.916004/ -90.713560
Agency: 11NPSWRD
Date Created: 10/17/98
Location: OAK ISLAND SITE #1A
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): APIS_USGS_1A
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 602
Water Body Id:
Minor Basin: MONTREAL
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE OAK ISLAND WI 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. OAK ISLAND SITE #1A IS AT A STREAM AND IS LOCATED INSIDE THE APOSTLE ISLANDS NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE USGS WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY W.J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVES OF THE REPORT WERE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY DURING 1979-1984 WATER YEARS AND TO PROVIDEA QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE." LATITUDE AND LONGITUDE COORDINATE VALUES WERE OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP USING FIGURE 3 IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WI 54814 (TEL. 715-779-3397). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NPSWRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0103

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/84-07/18/84	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/18/84-07/18/84	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/18/84-07/18/84	1	40.	40.	40.	40.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/18/84-07/18/84	1	9.7	9.7	9.7	9.7	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/18/84-07/18/84	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/18/84-07/18/84	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/18/84-07/18/84	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	1	11.	11.	11.	11.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0103

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									

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

EPA Water Quality Criteria Analysis for Station: APIS0103

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400 PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0104

NPS Station ID: APIS0104
LAT/LON: 46.916115/ -90.713337
Agency: 112WRD
Date Created: 01/21/84
Location: OAK ISLAND STREAM #1
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 040262188
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0104

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-06/23/83	1	12.8	12.8	12.8	12.8	0.	0.	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	06/23/83-06/23/83	1	750.	750.	750.	750.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-06/23/83	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-06/23/83	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/23/83-06/23/83	1	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/23/83-06/23/83	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/23/83-06/23/83	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/23/83-06/23/83	1	1.259	1.259	1.259	1.259	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	06/23/83-06/23/83	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/23/83-06/23/83	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/23/83-06/23/83	1	0.251	0.251	0.251	0.251	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/23/83-06/23/83	1	3.7	3.7	3.7	3.7	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/23/83-06/23/83	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/23/83-06/23/83	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/23/83-06/23/83	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/23/83-06/23/83	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/23/83-06/23/83	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/23/83-06/23/83	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/23/83-06/23/83	1	8.8	8.8	8.8	8.8	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/23/83-06/23/83	1	36.	36.	36.	36.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0104

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00										1	0	0.00
00400	PH	Fresh Chronic	9.	1	0	0.00										1	0	0.00
		Other-Lo Lim.	6.5	1	1	1.00										1	1	1.00
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00										1	0	0.00
		Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00										1	0	0.00
		Drinking Water	250.	1	0	0.00										1	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00										1	0	0.00

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

EPA Water Quality Criteria Analysis for Station: APIS0104

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00950 FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: APIS0105

NPS Station ID: APIS0105
LAT/LON: 46.918726/ -90.714892
Agency: 11NPSWRD
Date Created: 10/17/98
Location: OAK ISLAND SITE #1B
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): APIS_USGS_1B
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 660
Water Body Id:
Minor Basin: MONTREAL
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE OAK ISLAND WI 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. OAK ISLAND SITE #1B IS AT A STREAM AND IS LOCATED INSIDE THE APOSTLE ISLANDS NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE USGS WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY W.J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVES OF THE REPORT WERE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY DURING 1979-1984 WATER YEARS AND TO PROVIDEA QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE." LATITUDE AND LONGITUDE COORDINATE VALUES WERE OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP USING FIGURE 3 IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WI 54814 (TEL. 715-779-3397). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NPSWRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0105

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-07/18/84	2	13.5	13.5	14.5	12.5	2.	1.414	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-07/18/84	2	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-07/18/84	2	35.5	35.5	42.	29.	84.5	9.192	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/23/83-07/18/84	2	9.75	9.75	10.2	9.3	0.405	0.636	**	**	**	**
00400	PH (STANDARD UNITS)	06/23/83-07/18/84	2	6.35	6.35	7.1	5.6	1.125	1.061	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/23/83-07/18/84	2	5.888	5.888	7.1	5.6	1.553	1.246	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/23/83-07/18/84	2	1.296	1.296	2.512	0.079	2.958	1.72	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	1	11.	11.	11.	11.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0105

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00							1	0	0.00

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

EPA Water Quality Criteria Analysis for Station: APIS0105

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400 PH	Fresh Chronic	9.	2	0	0.00	1	0	0.00							1	0	0.00
	Other-Lo Lim.	6.5	2	1	0.50	1	0	0.00							1	1	1.00

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

Station Inventory for Station: APIS0106

NPS Station ID: APIS0106
LAT/LON: 46.650004/ -90.716670
Agency: 112WRD
Date Created: 08/01/87
Location: KAKAGON RIVER SLOUGH SITE #1 NEAR ODANAH, WI
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 463900090430001
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010302
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04010302
RF1 Mile Point: 0.000
Distance from RF1: 3.70
On/Off RF1:
RF3 Index: 04010301053400.00
RF3 Mile Point: 0.87
Distance from RF3: 0.34
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0106

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/22/86-07/22/86	1	62.	62.	62.	62.	0.	0.	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/22/86-07/22/86	1	5900.	5900.	5900.	5900.	0.	0.	**	**	**	**
00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	07/22/86-07/22/86	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/22/86-07/22/86	1	670.	670.	670.	670.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0107

NPS Station ID: APIS0107
LAT/LON: 46.650004/ -90.716670
Agency: 112WRD
Date Created: 08/01/87
Location: KAKAGON RIVER SLOUGH SITE #5 NEAR ODANAH, WI
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 463900090430005
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010302
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04010302
RF1 Mile Point: 0.000
Distance from RF1: 1.30
On/Off RF1:
RF3 Index: 04010301000209.21
RF3 Mile Point: 11.08
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0107

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/87-08/26/87	1	18.5	18.5	18.5	18.5	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/22/86-08/26/87	2	41.	41.	61.	21.	800.	28.284	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/22/86-08/26/87	2	12000.	12000.	13000.	11000.	2000000.	1414.214	**	**	**	**
00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	07/22/86-08/26/87	2 ##	5.5	5.5	10.	1.	40.5	6.364	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/22/86-08/26/87	2	570.	570.	800.	340.	105800.	325.269	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/26/87-08/26/87	1	20.	20.	20.	20.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0108

NPS Station ID: APIS0108
LAT/LON: 46.650004/ -90.716670
Agency: 112WRD
Date Created: 08/01/87
Location: KAKAGON RIVER SLOUGH SITE #7 NEAR ODANAH, WI
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 463900090430007
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010302
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04010302
RF1 Mile Point: 0.000
Distance from RF1: 1.30
On/Off RF1:
RF3 Index: 04010301000209.21
RF3 Mile Point: 11.08
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0108

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/87-08/26/87	1	18.5	18.5	18.5	18.5	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/22/86-08/26/87	2	28.	28.	28.	28.	0.	0.	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/22/86-08/26/87	2	6150.	6150.	7800.	4500.	5445000.	2333.452	**	**	**	**
00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	07/22/86-08/26/87	2 ##	2.	2.	3.	1.	2.	1.414	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/22/86-08/26/87	2	345.	345.	370.	320.	1250.	35.355	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/26/87-08/26/87	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

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

Station Inventory for Station: APIS0109

NPS Station ID: APIS0109 LAT/LON: 46.650004/ -90.716670 Agency: 112WRD Date Created: 08/01/87
Location: KAKAGON RIVER SLOUGH SITE #11 NEAR ODANAH, WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 463900090430011
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010302 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 04010302 RF1 Mile Point: 0.000 Distance from RF1: 1.30 On/Off RF1:
RF3 Index: 04010301000209.21 RF3 Mile Point: 11.08 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0109

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/87-08/26/87	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/22/86-08/26/87	2	62.	62.	86.	38.	1152.	33.941	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/22/86-08/26/87	2	8100.	8100.	9800.	6400.	5780000.	2404.163	**	**	**	**
00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	07/22/86-08/26/87	2 ##	3.	3.	5.	1.	8.	2.828	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/22/86-08/26/87	2	260.	260.	310.	210.	5000.	70.711	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/26/87-08/26/87	1	30.	30.	30.	30.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0110

NPS Station ID: APIS0110 LAT/LON: 46.650004/ -90.716670 Agency: 112WRD Date Created: 08/01/87
Location: KAKAGON RIVER SLOUGH SITE #20 NEAR ODANAH, WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 463900090430020
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010302 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 04010302 RF1 Mile Point: 0.000 Distance from RF1: 1.30 On/Off RF1:
RF3 Index: 04010301000209.21 RF3 Mile Point: 11.08 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0110

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/22/86-07/22/86	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/22/86-07/22/86	1	830.	830.	830.	830.	0.	0.	**	**	**	**
00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	07/22/86-07/22/86	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/22/86-07/22/86	1	420.	420.	420.	420.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0111

NPS Station ID: APIS0111 LAT/LON: 46.650004/ -90.716670 Agency: 112WRD Date Created: 08/01/87
Location: KAKAGON RIVER SLOUGH SITE #16 NEAR ODANAH, WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 463900090430016
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010302 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 04010302 RF1 Mile Point: 0.000 Distance from RF1: 1.30 On/Off RF1:
RF3 Index: 04010301000209.21 RF3 Mile Point: 11.08 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0111

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/87-08/26/87	1	19.5	19.5	19.5	19.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/87-08/26/87	1	82.	82.	82.	82.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/26/87-08/26/87	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/26/87-08/26/87	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/87-08/26/87	1	0.126	0.126	0.126	0.126	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/22/86-08/26/87	2	43.	43.	48.	38.	50.	7.071	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/22/86-08/26/87	2	2150.	2150.	2900.	1400.	1125000.	1060.66	**	**	**	**
00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	07/22/86-08/26/87	2 ##	2.	2.	3.	1.	2.	1.414	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/22/86-08/26/87	2	575.	575.	710.	440.	36450.	190.919	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/26/87-08/26/87	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: APIS0111

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0112

NPS Station ID: APIS0112 LAT/LON: 46.650004/ -90.716670 Agency: 112WRD Date Created: 08/01/87
Location: KAKAGON RIVER SLOUGH SITE #12 NEAR ODANAH, WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 463900090430012
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010302 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 04010302 RF1 Mile Point: 0.000 Distance from RF1: 1.30 On/Off RF1:
RF3 Index: 04010301000209.21 RF3 Mile Point: 11.08 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0112

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/87-08/26/87	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/22/86-08/26/87	2	46.5	46.5	56.	37.	180.5	13.435	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/22/86-08/26/87	2	4050.	4050.	4600.	3500.	605000.	777.817	**	**	**	**
00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	07/22/86-08/26/87	2 ##	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/22/86-08/26/87	2	505.	505.	580.	430.	11250.	106.066	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/26/87-08/26/87	1	20.	20.	20.	20.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0113

NPS Station ID: APIS0113 LAT/LON: 46.650004/ -90.716670 Agency: 112WRD Date Created: 08/01/87
Location: KAKAGON RIVER SLOUGH SITE #9 NEAR ODANAH, WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 463900090430009
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010302 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 04010302 RF1 Mile Point: 0.000 Distance from RF1: 1.30 On/Off RF1:
RF3 Index: 04010301000209.21 RF3 Mile Point: 11.08 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0113

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/87-08/26/87	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/87-08/26/87	1	78.	78.	78.	78.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/26/87-08/26/87	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/26/87-08/26/87	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/87-08/26/87	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	07/22/86-08/26/87	2	55.5	55.5	71.	40.	480.5	21.92	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	07/22/86-08/26/87	2	4900.	4900.	5000.	4800.	20000.	141.421	**	**	**	**
00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	07/22/86-08/26/87	2 ##	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/22/86-08/26/87	2	535.	535.	660.	410.	31250.	176.777	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/26/87-08/26/87	1	20.	20.	20.	20.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0113

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0114

NPS Station ID: APIS0114 | LAT/LON: 46.921282/ -90.717199 | Agency: 11NPSWRD | Date Created: 10/17/98
Location: OAK ISLAND SITE #1C | FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): APIS_USGS_1C
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301 | Depth of Water: 0 | Aquifer:
Major Basin: LAKE SUPERIOR | Elevation: 770 | Water Body Id:
Minor Basin: MONTREAL | ECO Region:
RF1 Index: 04010301 | RF1 Mile Point: 0.000 | Distance from RF1: 13.80 | On/Off RF1:
RF3 Index: 04010301001007.02 | RF3 Mile Point: 10.66 | Distance from RF3: 1.27 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE OAK ISLAND WI 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. OAK ISLAND SITE #1C IS AT A STREAM AND IS LOCATED INSIDE THE APOSTLE ISLANDS NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE USGS WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY W.J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVES OF THE REPORT WERE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY DURING 1979-1984 WATER YEARS AND TO PROVIDEA QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE." LATITUDE AND LONGITUDE COORDINATE VALUES WERE OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP USING FIGURE 3 IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WI 54814 (TEL. 715-779-3397). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NPSWRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0114

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-06/23/83	1	13.5	13.5	13.5	13.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-07/18/84	2	0.025	0.025	0.05	0.	0.001	0.035	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-06/23/83	1	29.	29.	29.	29.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/23/83-06/23/83	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/23/83-06/23/83	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/23/83-06/23/83	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/23/83-06/23/83	1	3.162	3.162	3.162	3.162	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0114

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00										1	0	0.00
00400	PH	Fresh Chronic	9.	1	0	0.00										1	0	0.00
		Other-Lo Lim.	6.5	1	1	1.00										1	1	1.00

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

Station Inventory for Station: APIS0115

NPS Station ID: APIS0115 | LAT/LON: 46.921921/ -90.718087 | Agency: 11NPSWRD | Date Created: 10/17/98
Location: OAK ISLAND SITE #1D | FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): APIS_USGS_1D
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301 | Depth of Water: 0 | Aquifer:
Major Basin: LAKE SUPERIOR | Elevation: 790 | Water Body Id:
Minor Basin: MONTREAL | ECO Region:
RF1 Index: 04010301 | RF1 Mile Point: 0.000 | Distance from RF1: 13.80 | On/Off RF1:
RF3 Index: 04010301001007.02 | RF3 Mile Point: 10.66 | Distance from RF3: 1.27 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE OAK ISLAND WI 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. OAK ISLAND SITE #1D IS AT A STREAM AND IS LOCATED INSIDE THE APOSTLE ISLANDS NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE USGS WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY W.J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVES OF THE REPORT WERE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY DURING 1979-1984 WATER YEARS AND TO PROVIDEA QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE." LATITUDE AND LONGITUDE COORDINATE VALUES WERE OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP USING FIGURE 3 IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WI 54814 (TEL. 715-779-3397). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NPSWRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0115

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-06/23/83	1	14.5	14.5	14.5	14.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-07/18/84	2	0.003	0.003	0.006	0.	0.	0.004	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-06/23/83	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/23/83-06/23/83	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/23/83-06/23/83	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/23/83-06/23/83	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/23/83-06/23/83	1	1.585	1.585	1.585	1.585	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0115

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00										1	0	0.00
00400	PH	Fresh Chronic	9.	1	0	0.00										1	0	0.00
		Other-Lo Lim.	6.5	1	1	1.00										1	1	1.00

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

Station Inventory for Station: APIS0116

NPS Station ID: APIS0116
LAT/LON: 46.656837/ -90.718503
Agency: 21WIS
Date Created: 08/10/91
Location: KAKAGON SLOUGH
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 023058 /8280AG023058/4803W103058
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010301
Depth of Water: 24
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 55
Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 1.60
On/Off RF1:
RF3 Index: 04010301053900.00
RF3 Mile Point: 0.03
Distance from RF3: 0.01
On/Off RF3:
Description:
STATION FOR DAN RYAN OF NORTHWEST DIST (715)635-2101 CENTER CHANNAL 1 MI FROM CHEQ BAY

Parameter Inventory for Station: APIS0116

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: APIS0117

NPS Station ID: APIS0117 | LAT/LON: 46.921503/ -90.718699 | Agency: 11NPSWRD | Date Created: 10/17/98
Location: OAK ISLAND SITE #1E | FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): APIS_USGS_1E
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301 | Depth of Water: 0 | Aquifer:
Major Basin: LAKE SUPERIOR | Elevation: 790 | Water Body Id:
Minor Basin: MONTREAL | ECO Region:
RF1 Index: 04010301 | RF1 Mile Point: 0.000 | Distance from RF1: 13.80 | On/Off RF1:
RF3 Index: 04010301001007.02 | RF3 Mile Point: 10.66 | Distance from RF3: 1.27 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE OAK ISLAND WI 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. OAK ISLAND SITE #1E IS AT A STREAM AND IS LOCATED INSIDE THE APOSTLE ISLANDS NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE USGS WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY W.J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVES OF THE REPORT WERE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY DURING 1979-1984 WATER YEARS AND TO PROVIDEA QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE." LATITUDE AND LONGITUDE COORDINATE VALUES WERE OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP USING FIGURE 3 IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WI 54814 (TEL. 715-779-3397). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NPSWRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0117

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/84-06/23/84	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/84-07/18/84	2	0.01	0.01	0.02	0.	0.	0.014	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/84-06/23/84	1	29.	29.	29.	29.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/23/84-06/23/84	1	9.1	9.1	9.1	9.1	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/23/84-06/23/84	1	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/23/84-06/23/84	1	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/23/84-06/23/84	1	2.512	2.512	2.512	2.512	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0117

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00										1	0	0.00
00400	PH	Fresh Chronic	9.	1	0	0.00										1	0	0.00
		Other-Lo Lim.	6.5	1	1	1.00										1	1	1.00

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

Station Inventory for Station: APIS0118

NPS Station ID: APIS0118
LAT/LON: 46.830003/ -90.724448
Agency: 112WRD
Date Created: 11/07/81
Location: LAKE SUPERIOR SITE 3 NR BASSWOOD & MADELAINE IS
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 464948090432800
RMI-Indexes:
Within Park Boundary: No
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: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0118

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/21/81-07/27/82	8	119.5	98.625	174.	0.	6187.982	78.664	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/21/81-07/21/81	3	17.	13.333	18.5	4.5	59.083	7.687	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/21/81-07/21/81	3	83.	80.	85.	72.	49.	7.	**	**	**	**
00400	PH (STANDARD UNITS)	07/21/81-07/21/81	3	7.5	7.433	7.5	7.3	0.013	0.115	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/21/81-07/21/81	3	7.5	7.423	7.5	7.3	0.014	0.116	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/21/81-07/21/81	3	0.032	0.038	0.05	0.032	0.	0.011	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/21/81-07/27/82	6 ##	0.005	0.008	0.02	0.005	0.	0.006	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/21/81-07/27/82	2	315.	315.	470.	160.	48050.	219.203	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/21/81-07/27/82	6	1.65	1.617	2.1	1.1	0.138	0.371	**	**	**	**
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/21/81-07/27/82	2 ##	0.075	0.075	0.1	0.05	0.001	0.035	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	07/21/81-07/21/81	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/21/81-07/27/82	2	9.05	9.05	14.	4.1	49.005	7.	**	**	**	**
39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39250	NAPTHALENES, POLYCHLORINATED (UG/L)	07/21/81-07/21/81	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	07/21/81-07/21/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	07/21/81-07/21/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	07/21/81-07/21/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	07/21/81-07/21/81	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	07/21/81-07/21/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/21/81-07/21/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/21/81-07/21/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/21/81-07/21/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**

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

Parameter Inventory for Station: APIS0118

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	07/21/81-07/21/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	07/21/81-07/21/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/21/81-07/21/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39755	MIREX, TOTAL (UG/L)	07/21/81-07/21/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	07/21/81-07/21/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
70330	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .031MM	07/27/82-07/27/82	1	32.	32.	32.	32.	0.	0.	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/21/81-07/21/81	3	0.03	0.04	0.06	0.03	0.	0.017	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	07/21/81-07/27/82	5 ##	0.05	0.06	0.1	0.05	0.001	0.022	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/21/81-07/27/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/27/82-07/27/82	1	50.	50.	50.	50.	0.	0.	**	**	**	**
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/27/82-07/27/82	1	69.	69.	69.	69.	0.	0.	**	**	**	**
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/27/82-07/27/82	1	93.	93.	93.	93.	0.	0.	**	**	**	**
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/27/82-07/27/82	1	100.	100.	100.	100.	0.	0.	**	**	**	**
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	07/21/81-07/21/81	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: APIS0118

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400	PH	Fresh Chronic	9.	3	0	0.00	3	0	0.00									
		Other-Lo Lim.	6.5	3	0	0.00	3	0	0.00									
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	3	0	0.00	3	0	0.00									
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	3	0	0.00	3	0	0.00									
		Drinking Water	0.2	3	0	0.00	3	0	0.00									
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	3	0	0.00	3	0	0.00									
		Drinking Water	2.	3	0	0.00	3	0	0.00									
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	3	0	0.00	3	0	0.00									
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	3	0	0.00	3	0	0.00									
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	3	0	0.00	3	0	0.00									
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	3	0	0.00	3	0	0.00									
39388	ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute	0.22	3	0	0.00	3	0	0.00									
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	3	0	0.00	3	0	0.00									
		Drinking Water	2.	3	0	0.00	3	0	0.00									
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	3	0	0.00	3	0	0.00									
		Drinking Water	3.	3	0	0.00	3	0	0.00									
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	3	0	0.00	3	0	0.00									
		Drinking Water	0.4	3	0	0.00	3	0	0.00									
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	3	0	0.00	3	0	0.00									
		Drinking Water	0.2	3	0	0.00	3	0	0.00									
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	3	0	0.00	3	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	5	0	0.00	5	0	0.00									
		Drinking Water	2.	5	0	0.00	5	0	0.00									

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

Station Inventory for Station: APIS0119

NPS Station ID: APIS0119
LAT/LON: 46.958214/ -90.725686
Agency: 11NPSWRD
Date Created: 10/17/98
Location: OAK ISLAND SITE #7A
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): APIS_USGS_7A
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 603
Water Body Id:
Minor Basin: MONTREAL
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE OAK ISLAND WI 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. OAK ISLAND SITE #7A IS AT A STREAM AND IS LOCATED INSIDE THE APOSTLE ISLANDS NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE USGS WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY W.J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVES OF THE REPORT WERE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY DURING 1979-1984 WATER YEARS AND TO PROVIDEA QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE." LATITUDE AND LONGITUDE COORDINATE VALUES WERE OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP USING FIGURE 3 IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WI 54814 (TEL. 715-779-3397). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NPSWRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0119

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/84-07/18/84	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/18/84-07/18/84	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/18/84-07/18/84	1	112.	112.	112.	112.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/18/84-07/18/84	1	10.2	10.2	10.2	10.2	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/18/84-07/18/84	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/18/84-07/18/84	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/18/84-07/18/84	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	1	47.	47.	47.	47.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0119

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									

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

EPA Water Quality Criteria Analysis for Station: APIS0119

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400 PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0120

NPS Station ID: APIS0120
LAT/LON: 46.958059/ -90.725560
Agency: 112WRD
Date Created: 01/21/84
Location: OAK ISLAND STREAM #7
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 04026218
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0120

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-06/23/83	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	06/23/83-06/23/83	1	750.	750.	750.	750.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-06/23/83	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-06/23/83	1	84.	84.	84.	84.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/23/83-06/23/83	1	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/23/83-06/23/83	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/23/83-06/23/83	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/23/83-06/23/83	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	06/23/83-06/23/83	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/23/83-06/23/83	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/23/83-06/23/83	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/23/83-06/23/83	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/23/83-06/23/83	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/23/83-06/23/83	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/23/83-06/23/83	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/23/83-06/23/83	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/23/83-06/23/83	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/23/83-06/23/83	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/23/83-06/23/83	1	13.	13.	13.	13.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/23/83-06/23/83	1	77.	77.	77.	77.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0120

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00										1	0	0.00
00400	PH	Fresh Chronic	9.	1	0	0.00										1	0	0.00
		Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00										1	0	0.00
		Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00										1	0	0.00
		Drinking Water	250.	1	0	0.00										1	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00										1	0	0.00

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

EPA Water Quality Criteria Analysis for Station: APIS0120

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00950 FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: APIS0121

NPS Station ID: APIS0121 | LAT/LON: 46.957337/ -90.726003 | Agency: 11NPSWRD | Date Created: 10/17/98
Location: OAK ISLAND SITE #7B | FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): APIS_USGS_7B
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301 | Depth of Water: 0 | Aquifer:
Major Basin: LAKE SUPERIOR | Elevation: 640 | Water Body Id:
Minor Basin: MONTREAL | ECO Region:
RF1 Index: 04010301 | RF1 Mile Point: 0.000 | Distance from RF1: 13.80 | On/Off RF1:
RF3 Index: 04010301001007.02 | RF3 Mile Point: 10.66 | Distance from RF3: 1.27 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE OAK ISLAND WI 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. OAK ISLAND SITE #7B IS AT A STREAM AND IS LOCATED INSIDE THE APOSTLE ISLANDS NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE USGS WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY W.J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVES OF THE REPORT WERE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY DURING 1979-1984 WATER YEARS AND TO PROVIDEA QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE." LATITUDE AND LONGITUDE COORDINATE VALUES WERE OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP USING FIGURE 3 IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WI 54814 (TEL. 715-779-3397). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NPSWRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0121

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-07/18/84	2	13.5	13.5	14.5	12.5	2.	1.414	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-07/18/84	2	0.08	0.08	0.1	0.06	0.001	0.028	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-07/18/84	2	74.5	74.5	82.	67.	112.5	10.607	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/23/83-07/18/84	2	9.95	9.95	10.2	9.7	0.125	0.354	**	**	**	**
00400	PH (STANDARD UNITS)	06/23/83-07/18/84	2	7.1	7.1	7.5	6.7	0.32	0.566	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/23/83-07/18/84	2	6.937	6.937	7.5	6.7	0.373	0.611	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/23/83-07/18/84	2	0.116	0.116	0.2	0.032	0.014	0.119	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	1	34.	34.	34.	34.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0121

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00							1	0	0.00

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

EPA Water Quality Criteria Analysis for Station: APIS0121

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400 PH	Fresh Chronic	9.	2	0	0.00	1	0	0.00							1	0	0.00
	Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00							1	0	0.00

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

Station Inventory for Station: APIS0122

NPS Station ID: APIS0122
LAT/LON: 46.954726/ -90.726143
Agency: 11NPSWRD
Date Created: 10/17/98
Location: OAK ISLAND SITE #7C
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): APIS_USGS_7C
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 680
Water Body Id:
Minor Basin: MONTREAL
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE OAK ISLAND WI 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. OAK ISLAND SITE #7C IS AT A STREAM AND IS LOCATED INSIDE THE APOSTLE ISLANDS NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE USGS WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY W.J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVES OF THE REPORT WERE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY DURING 1979-1984 WATER YEARS AND TO PROVIDEA QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE." LATITUDE AND LONGITUDE COORDINATE VALUES WERE OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP USING FIGURE 3 IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WI 54814 (TEL. 715-779-3397). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NPSWRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0122

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-07/18/84	2	13.75	13.75	14.5	13.	1.125	1.061	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-07/18/84	2	0.075	0.075	0.09	0.06	0.	0.021	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-07/18/84	2	48.5	48.5	55.	42.	84.5	9.192	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/23/83-07/18/84	2	9.95	9.95	10.3	9.6	0.245	0.495	**	**	**	**
00400	PH (STANDARD UNITS)	06/23/83-07/18/84	2	6.9	6.9	7.4	6.4	0.5	0.707	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/23/83-07/18/84	2	6.66	6.66	7.4	6.4	0.616	0.785	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/23/83-07/18/84	2	0.219	0.219	0.398	0.04	0.064	0.253	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	1	20.	20.	20.	20.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0122

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00							1	0	0.00

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

EPA Water Quality Criteria Analysis for Station: APIS0122

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400 PH	Fresh Chronic	9.	2	0	0.00	1	0	0.00							1	0	0.00
	Other-Lo Lim.	6.5	2	1	0.50	1	0	0.00							1	1	1.00

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

Station Inventory for Station: APIS0123

NPS Station ID: APIS0123
LAT/LON: 46.951865/ -90.726810
Agency: 11NPSWRD
Date Created: 10/17/98
Location: OAK ISLAND SITE #7D
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): APIS_USGS_7D
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 740
Water Body Id:
Minor Basin: MONTREAL
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE OAK ISLAND WI 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. OAK ISLAND SITE #7D IS AT A STREAM AND IS LOCATED INSIDE THE APOSTLE ISLANDS NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE USGS WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY W.J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVES OF THE REPORT WERE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY DURING 1979-1984 WATER YEARS AND TO PROVIDEA QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE." LATITUDE AND LONGITUDE COORDINATE VALUES WERE OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP USING FIGURE 3 IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WI 54814 (TEL. 715-779-3397). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NPSWRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0123

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-07/18/84	2	12.75	12.75	13.	12.5	0.125	0.354	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-07/18/84	2	0.04	0.04	0.05	0.03	0.	0.014	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-07/18/84	2	40.	40.	42.	38.	8.	2.828	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/23/83-07/18/84	2	9.75	9.75	10.	9.5	0.125	0.354	**	**	**	**
00400	PH (STANDARD UNITS)	06/23/83-07/18/84	2	6.6	6.6	7.2	6.	0.72	0.849	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/23/83-07/18/84	2	6.274	6.274	7.2	6.	0.932	0.965	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/23/83-07/18/84	2	0.532	0.532	1.	0.063	0.439	0.662	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	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: APIS0123

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00							1	0	0.00

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

EPA Water Quality Criteria Analysis for Station: APIS0123

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400 PH	Fresh Chronic	9.	2	0	0.00	1	0	0.00							1	0	0.00
	Other-Lo Lim.	6.5	2	1	0.50	1	0	0.00							1	1	1.00

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

Station Inventory for Station: APIS0124

NPS Station ID: APIS0124
LAT/LON: 46.958142/ -90.727392
Agency: 11NPSWRD
Date Created: 10/17/98
Location: OAK ISLAND SITE #6A
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): APIS_USGS_6A
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 602
Water Body Id:
Minor Basin: MONTREAL
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE OAK ISLAND WI 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. OAK ISLAND SITE #6A IS AT A STREAM AND IS LOCATED INSIDE THE APOSTLE ISLANDS NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE USGS WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY W.J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVES OF THE REPORT WERE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY DURING 1979-1984 WATER YEARS AND TO PROVIDEA QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE." LATITUDE AND LONGITUDE COORDINATE VALUES WERE OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP USING FIGURE 3 IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WI 54814 (TEL. 715-779-3397). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NPSWRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0124

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/84-07/18/84	1	11.5	11.5	11.5	11.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/18/84-07/18/84	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/18/84-07/18/84	1	145.	145.	145.	145.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/18/84-07/18/84	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/18/84-07/18/84	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/18/84-07/18/84	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/18/84-07/18/84	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	1	65.	65.	65.	65.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0124

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									

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

EPA Water Quality Criteria Analysis for Station: APIS0124

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400 PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0125

NPS Station ID: APIS0125
LAT/LON: 46.958059/ -90.727505
Agency: 112WRD
Date Created: 01/21/84
Location: OAK ISLAND STREAM #6
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 04026217
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0125

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-06/23/83	1	11.6	11.6	11.6	11.6	0.	0.	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	06/23/83-06/23/83	1	745.	745.	745.	745.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-06/23/83	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-06/23/83	1	111.	111.	111.	111.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/23/83-06/23/83	1	10.1	10.1	10.1	10.1	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/23/83-06/23/83	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/23/83-06/23/83	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/23/83-06/23/83	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	06/23/83-06/23/83	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/23/83-06/23/83	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/23/83-06/23/83	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/23/83-06/23/83	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/23/83-06/23/83	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/23/83-06/23/83	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/23/83-06/23/83	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/23/83-06/23/83	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/23/83-06/23/83	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/23/83-06/23/83	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/23/83-06/23/83	1	13.	13.	13.	13.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/23/83-06/23/83	1	84.	84.	84.	84.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0125

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00										1	0	0.00
00400	PH	Fresh Chronic	9.	1	0	0.00										1	0	0.00
		Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00										1	0	0.00
		Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00										1	0	0.00
		Drinking Water	250.	1	0	0.00										1	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00										1	0	0.00

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

EPA Water Quality Criteria Analysis for Station: APIS0125

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00950 FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: APIS0126

NPS Station ID: APIS0126 LAT/LON: 46.957643/ -90.727616 Agency: 11NPSWRD Date Created: 04/04/98
Location: STREAM ON NORTH OAK ISLAND IN LAKE SUPERIOR FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): APIS_UW_OAKSTRM
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE OAK ISLAND WISCONSIN 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON AN UNNAMED PERENNIAL STREAM ON THE NORTH END OF OAK ISLAND APPROXIMATELY 500 FEET UPSTREAM FROM LAKE SUPERIOR. SAMPLES FOR THIS SITE WERE COLLECTED FROM MID MAY TO SEPTEMBER OF 1986. SAMPLES WERE ANALYZED FOR TEMPERATURE; PH; CONDUCTIVITY; AND ALKALINITY. THE RESULTS ARE IN "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE 1986-1988" BY MARY BALCER AND DENNIS MCCAULEY WITH THE CENTER FOR LAKE SUPERIOR ENVIRONMENTAL STUDIES; UNIVERSITY OF WISCONSIN-SUPERIOR (MARCH 1989). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0126

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/13/86-09/01/86	16	11.	11.206	14.	9.	1.901	1.379	9.35	10.	12.	13.3
00072	STAGE, STREAM (METERS)	05/13/86-09/08/86	17	0.24	0.336	1.1	0.2	0.062	0.249	0.216	0.22	0.3	0.908
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/13/86-09/08/86	14	75.	72.643	95.	35.	302.247	17.385	40.	66.25	86.25	93.5
00406	PH, FIELD, STANDARD UNITS SU	05/13/86-09/08/86	17	7.2	7.153	7.6	6.1	0.168	0.409	6.26	7.05	7.5	7.52
00406	CONVERTED PH, FIELD, STANDARD UNITS	05/13/86-09/08/86	17	7.2	6.894	7.6	6.1	0.239	0.489	6.26	7.05	7.5	7.52
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/13/86-09/08/86	17	0.063	0.128	0.794	0.025	0.042	0.204	0.03	0.032	0.09	0.56
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/13/86-09/08/86	17	58.	54.471	68.	22.	142.39	11.933	33.2	49.5	63.	64.8

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

EPA Water Quality Criteria Analysis for Station: APIS0126

				Total	Exceed	Prop.	----------7/15-11/30----------			----------12/01-2/29----------			----------3/01-4/14----------			----------4/15-7/14----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00406	PH, FIELD	Fresh Chronic	9.	17	0	0.00	8	0	0.00							9	0	0.00
		Other-Lo Lim.	6.5	17	2	0.12	8	1	0.13							9	1	0.11

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

Station Inventory for Station: APIS0127

NPS Station ID: APIS0127
LAT/LON: 46.652337/ -90.727671
Agency: 21WIL
Date Created: 08/29/92
Location: KAKAGON SLOUGH
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 024006 /8280AG024006/4803W104006
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010301
Depth of Water: 6
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 55
Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 5.50
On/Off RF1:
RF3 Index: 04010301036500.00
RF3 Mile Point: 0.00
Distance from RF3: 0.32
On/Off RF3:
Description:
STATION FOR BONNIE GOODWEILER OF MADISON (608)266-3484 NR BUREAU OF RESEARCH RICHARD LILLIE 1979 RANDOM LAKES SURVEY

Parameter Inventory for Station: APIS0127

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/18/79-07/18/79	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	07/18/79-07/18/79	1	73.	73.	73.	73.	0.	0.	**	**	**	**
00032	CLOUD COVER (PERCENT)	07/18/79-07/18/79	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/18/79-07/18/79	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
00077	TRANSPARENCY, SECCHI DISC (INCHES)	07/18/79-07/18/79	1	48.	48.	48.	48.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/18/79-07/18/79	1	112.	112.	112.	112.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/18/79-07/18/79	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/18/79-07/18/79	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/18/79-07/18/79	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/18/79-07/18/79	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/79-07/18/79	1	42.	42.	42.	42.	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	07/18/79-07/18/79	1	1.26	1.26	1.26	1.26	0.	0.	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	07/18/79-07/18/79	1	0.75	0.75	0.75	0.75	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	07/18/79-07/18/79	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	07/18/79-07/18/79	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	07/18/79-07/18/79	1	0.11	0.11	0.11	0.11	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/18/79-07/18/79	1	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/18/79-07/18/79	1	0.019	0.019	0.019	0.019	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	07/18/79-07/18/79	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/18/79-07/18/79	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	07/18/79-07/18/79	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	07/18/79-07/18/79	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/18/79-07/18/79	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/18/79-07/18/79	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	07/18/79-07/18/79	1	3.25	3.25	3.25	3.25	0.	0.	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	07/18/79-07/18/79	1	1.04	1.04	1.04	1.04	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0127

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0128

NPS Station ID: APIS0128
LAT/LON: 46.950282/ -90.728255
Agency: 11NPSWRD
Date Created: 10/17/98
Location: OAK ISLAND SITE #7E
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): APIS_USGS_7E
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 780
Water Body Id:
Minor Basin: MONTREAL
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE OAK ISLAND WI 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. OAK ISLAND SITE #7E IS AT A STREAM AND IS LOCATED INSIDE THE APOSTLE ISLANDS NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE USGS WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY W.J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVES OF THE REPORT WERE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY DURING 1979-1984 WATER YEARS AND TO PROVIDEA QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE." LATITUDE AND LONGITUDE COORDINATE VALUES WERE OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP USING FIGURE 3 IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WI 54814 (TEL. 715-779-3397). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NPSWRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0128

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-07/18/84	2	13.5	13.5	14.	13.	0.5	0.707	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-07/18/84	2 ##	0.015	0.015	0.025	0.005	0.	0.014	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-07/18/84	2	50.5	50.5	59.	42.	144.5	12.021	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/23/83-07/18/84	2	9.	9.	9.2	8.8	0.08	0.283	**	**	**	**
00400	PH (STANDARD UNITS)	06/23/83-07/18/84	2	6.45	6.45	7.	5.9	0.605	0.778	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/23/83-07/18/84	2	6.168	6.168	7.	5.9	0.764	0.874	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/23/83-07/18/84	2	0.679	0.679	1.259	0.1	0.672	0.819	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	1	20.	20.	20.	20.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0128

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00							1	0	0.00

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

EPA Water Quality Criteria Analysis for Station: APIS0128

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400 PH	Fresh Chronic	9.	2	0	0.00	1	0	0.00							1	0	0.00
	Other-Lo Lim.	6.5	2	1	0.50	1	0	0.00							1	1	1.00

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

Station Inventory for Station: APIS0129

NPS Station ID: APIS0129
LAT/LON: 46.954726/ -90.729365
Agency: 11NPSWRD
Date Created: 10/17/98
Location: OAK ISLAND SITE #6B
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): APIS_USGS_6B
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 660
Water Body Id:
Minor Basin: MONTREAL
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE OAK ISLAND WI 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. OAK ISLAND SITE #6B IS AT A STREAM AND IS LOCATED INSIDE THE APOSTLE ISLANDS NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE USGS WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY W.J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVES OF THE REPORT WERE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY DURING 1979-1984 WATER YEARS AND TO PROVIDEA QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE." LATITUDE AND LONGITUDE COORDINATE VALUES WERE OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP USING FIGURE 3 IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WI 54814 (TEL. 715-779-3397). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NPSWRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0129

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-07/18/84	2	11.25	11.25	11.5	11.	0.125	0.354	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-07/18/84	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-07/18/84	2	116.5	116.5	130.	103.	364.5	19.092	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/23/83-07/18/84	2	10.15	10.15	10.3	10.	0.045	0.212	**	**	**	**
00400	PH (STANDARD UNITS)	06/23/83-07/18/84	2	7.25	7.25	7.7	6.8	0.405	0.636	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/23/83-07/18/84	2	7.05	7.05	7.7	6.8	0.485	0.697	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/23/83-07/18/84	2	0.089	0.089	0.158	0.02	0.01	0.098	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	1	59.	59.	59.	59.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0129

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00							1	0	0.00

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

EPA Water Quality Criteria Analysis for Station: APIS0129

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400 PH	Fresh Chronic	9.	2	0	0.00	1	0	0.00							1	0	0.00
	Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00							1	0	0.00

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

Station Inventory for Station: APIS0130

NPS Station ID: APIS0130
LAT/LON: 46.958806/ -90.731892
Agency: 11NPSWRD
Date Created: 10/17/98
Location: OAK ISLAND SITE #5A
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): APIS_USGS_5A
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 602
Water Body Id:
Minor Basin: MONTREAL
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE OAK ISLAND WI 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. OAK ISLAND SITE #5A IS AT A STREAM AND IS LOCATED INSIDE THE APOSTLE ISLANDS NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE USGS WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY W.J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVES OF THE REPORT WERE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY DURING 1979-1984 WATER YEARS AND TO PROVIDEA QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE." LATITUDE AND LONGITUDE COORDINATE VALUES WERE OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP USING FIGURE 3 IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WI 54814 (TEL. 715-779-3397). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NPSWRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0130

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/84-07/18/84	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/18/84-07/18/84	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/18/84-07/18/84	1	86.	86.	86.	86.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/18/84-07/18/84	1	9.3	9.3	9.3	9.3	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/18/84-07/18/84	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/18/84-07/18/84	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/18/84-07/18/84	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	1	36.	36.	36.	36.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0130

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									

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

EPA Water Quality Criteria Analysis for Station: APIS0130

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400 PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0131

NPS Station ID: APIS0131
LAT/LON: 46.958808/ -90.731948
Agency: 112WRD
Date Created: 01/21/84
Location: OAK ISLAND STREAM #5
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 04026216
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0131

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-06/23/83	1	14.5	14.5	14.5	14.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-06/23/83	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-06/23/83	1	59.	59.	59.	59.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/23/83-06/23/83	1	9.4	9.4	9.4	9.4	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/23/83-06/23/83	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/23/83-06/23/83	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/23/83-06/23/83	1	0.398	0.398	0.398	0.398	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	06/23/83-06/23/83	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/23/83-06/23/83	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/23/83-06/23/83	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/23/83-06/23/83	1	8.8	8.8	8.8	8.8	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/23/83-06/23/83	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/23/83-06/23/83	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/23/83-06/23/83	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/23/83-06/23/83	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/23/83-06/23/83	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/23/83-06/23/83	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/23/83-06/23/83	1	11.	11.	11.	11.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/23/83-06/23/83	1	58.	58.	58.	58.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0131

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00										1	0	0.00
00400	PH	Fresh Chronic	9.	1	0	0.00										1	0	0.00
		Other-Lo Lim.	6.5	1	1	1.00										1	1	1.00
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00										1	0	0.00
		Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00										1	0	0.00
		Drinking Water	250.	1	0	0.00										1	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00										1	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: APIS0132

NPS Station ID: APIS0132
LAT/LON: 46.953670/ -90.732003
Agency: 11NPSWRD
Date Created: 10/17/98
Location: OAK ISLAND SITE #6C
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): APIS_USGS_6C
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 700
Water Body Id:
Minor Basin: MONTREAL
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE OAK ISLAND WI 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. OAK ISLAND SITE #6C IS AT A STREAM AND IS LOCATED INSIDE THE APOSTLE ISLANDS NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE USGS WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY W.J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVES OF THE REPORT WERE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY DURING 1979-1984 WATER YEARS AND TO PROVIDEA QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE." LATITUDE AND LONGITUDE COORDINATE VALUES WERE OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP USING FIGURE 3 IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WI 54814 (TEL. 715-779-3397). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NPSWRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0132

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-07/18/84	2	12.75	12.75	13.	12.5	0.125	0.354	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-07/18/84	2	0.03	0.03	0.04	0.02	0.	0.014	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-07/18/84	2	45.	45.	50.	40.	50.	7.071	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/23/83-07/18/84	2	10.	10.	10.	10.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/23/83-07/18/84	2	6.8	6.8	7.5	6.1	0.98	0.99	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/23/83-07/18/84	2	6.384	6.384	7.5	6.1	1.326	1.152	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/23/83-07/18/84	2	0.413	0.413	0.794	0.032	0.291	0.539	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	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: APIS0132

				Total	Exceed	Prop.	7/15-11/30			12/01-2/29			3/01-4/14			4/15-7/14		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00							1	0	0.00

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

EPA Water Quality Criteria Analysis for Station: APIS0132

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400 PH	Fresh Chronic	9.	2	0	0.00	1	0	0.00							1	0	0.00
	Other-Lo Lim.	6.5	2	1	0.50	1	0	0.00							1	1	1.00

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

Station Inventory for Station: APIS0133

NPS Station ID: APIS0133 | LAT/LON: 46.958226/ -90.733309 | Agency: 11NPSWRD | Date Created: 10/17/98
Location: OAK ISLAND SITE #5B | FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): APIS_USGS_5B
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301 | Depth of Water: 0 | Aquifer:
Major Basin: LAKE SUPERIOR | Elevation: 630 | Water Body Id:
Minor Basin: MONTREAL | ECO Region:
RF1 Index: 04010301 | RF1 Mile Point: 0.000 | Distance from RF1: 13.80 | On/Off RF1:
RF3 Index: 04010301001007.02 | RF3 Mile Point: 10.66 | Distance from RF3: 1.27 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE OAK ISLAND WI 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. OAK ISLAND SITE #5B IS AT A STREAM AND IS LOCATED INSIDE THE APOSTLE ISLANDS NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE USGS WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY W.J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVES OF THE REPORT WERE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY DURING 1979-1984 WATER YEARS AND TO PROVIDEA QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE." LATITUDE AND LONGITUDE COORDINATE VALUES WERE OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP USING FIGURE 3 IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WI 54814 (TEL. 715-779-3397). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NPSWRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0133

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-07/18/84	2	12.5	12.5	13.5	11.5	2.	1.414	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-07/18/84	2	0.035	0.035	0.05	0.02	0.	0.021	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-07/18/84	2	89.5	89.5	94.	85.	40.5	6.364	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/23/83-07/18/84	2	9.9	9.9	10.2	9.6	0.18	0.424	**	**	**	**
00400	PH (STANDARD UNITS)	06/23/83-07/18/84	2	6.85	6.85	7.3	6.4	0.405	0.636	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/23/83-07/18/84	2	6.65	6.65	7.3	6.4	0.485	0.697	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/23/83-07/18/84	2	0.224	0.224	0.398	0.05	0.061	0.246	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	1	36.	36.	36.	36.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0133

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00							1	0	0.00

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

EPA Water Quality Criteria Analysis for Station: APIS0133

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400 PH	Fresh Chronic	9.	2	0	0.00	1	0	0.00							1	0	0.00
	Other-Lo Lim.	6.5	2	1	0.50	1	0	0.00							1	1	1.00

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

Station Inventory for Station: APIS0134

NPS Station ID: APIS0134
LAT/LON: 46.661115/ -90.733337
Agency: 21WIDNR
Date Created: 08/03/78
Location: LAKE SUPERIOR NEAR KAKAGON SLOU.
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 117
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010301
Depth of Water: 999
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: WISC + MINN DRAINAGE
ECO Region:
RF1 Index: 04010301033
RF1 Mile Point: 0.300
Distance from RF1: 16.70
On/Off RF1: OFF
RF3 Index: 04010301000209.21
RF3 Mile Point: 9.21
Distance from RF3: 1.62
On/Off RF3:
Description:
DATA FROM WISCONSIN DEPARTMENT OF NATURAL RESOURCES FISH SAMPLING PROGRAMS FOR MERCURY, PCBS, AND PESTICIDES
SAMPLE TAKEN FROM LAKE SUPERIOR NEAR KAKAGON SLOU.

Parameter Inventory for Station: APIS0134

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/30/70-09/17/74	17	122.	340.294	1041.	101.	84316.471	290.373	101.	102.	631.	713.8
00024	SAMPLE LENGTH IN INCHES	06/30/70-09/17/74	17	6.5	10.506	23.6	5.	36.061	6.005	6.2	6.5	16.5	21.36
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	08/16/74-08/16/74	6	0.105	0.11	0.19	0.03	0.004	0.065	**	**	**	**
01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	08/16/74-08/16/74	6 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	08/16/74-08/16/74	6	0.18	0.225	0.4	0.15	0.009	0.095	**	**	**	**
34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	08/16/74-08/16/74	6	0.02	0.02	0.04	0.01	0.	0.011	**	**	**	**
39105	PERCENT FAT HEXANE EXTRACTION	08/16/74-09/17/74	7	3.8	3.357	4.2	0.5	1.67	1.292	**	**	**	**
39302	P P DDT IN TISSUE WET WGT (UG/G)	08/16/74-08/16/74	6	0.004	0.005	0.008	0.002	0.	0.002	**	**	**	**
39312	P P DDD IN TISSUE WET WGT (UG/G)	08/16/74-08/16/74	6	0.002	0.003	0.005	0.001	0.	0.002	**	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	08/16/74-08/16/74	6	0.01	0.013	0.03	0.009	0.	0.008	**	**	**	**
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	08/16/74-08/16/74	6 ##	0.001	0.001	0.003	0.001	0.	0.001	**	**	**	**
39515	PCBS (MG/KG) FISH TISSUE MG/KG	08/16/74-09/17/74	10	0.01	0.018	0.066	0.	0.	0.022	0.	0.	0.031	0.063
39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	08/16/74-08/16/74	6 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	08/12/70-08/16/74	12	0.185	0.191	0.66	0.01	0.029	0.172	0.013	0.065	0.23	0.543
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/16/74-08/16/74	6 ##	0.01	0.022	0.05	0.01	0.	0.018	**	**	**	**
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/16/74-08/16/74	6	0.425	0.445	0.61	0.31	0.019	0.138	**	**	**	**
71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/16/74-08/16/74	6	15.5	19.667	39.	15.	91.067	9.543	**	**	**	**
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	08/16/74-08/16/74	6	0.075	0.072	0.08	0.06	0.	0.01	**	**	**	**
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	08/16/74-08/16/74	6	0.045	0.05	0.09	0.03	0.001	0.023	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	06/30/70-09/17/74	16	3.	4.438	10.	1.	14.929	3.864	1.	1.	9.75	10.
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	08/16/74-08/16/74	6 ##	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

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

Station Inventory for Station: APIS0135

NPS Station ID: APIS0135
LAT/LON: 46.950420/ -90.733532
Agency: 11NPSWRD
Date Created: 10/17/98
Location: OAK ISLAND SITE #6E
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): APIS_USGS_6E
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 840
Water Body Id:
Minor Basin: MONTREAL
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE OAK ISLAND WI 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. OAK ISLAND SITE #6E IS AT A STREAM AND IS LOCATED INSIDE THE APOSTLE ISLANDS NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE USGS WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY W.J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVES OF THE REPORT WERE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY DURING 1979-1984 WATER YEARS AND TO PROVIDEA QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE." LATITUDE AND LONGITUDE COORDINATE VALUES WERE OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP USING FIGURE 3 IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WI 54814 (TEL. 715-779-3397). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NPSWRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0135

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-07/18/84	2	11.75	11.75	12.	11.5	0.125	0.354	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-07/18/84	2 ##	0.013	0.013	0.02	0.005	0.	0.011	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-07/18/84	2	44.	44.	51.	37.	98.	9.899	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/23/83-07/18/84	2	9.1	9.1	10.1	8.1	2.	1.414	**	**	**	**
00400	PH (STANDARD UNITS)	06/23/83-07/18/84	2	6.4	6.4	7.2	5.6	1.28	1.131	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/23/83-07/18/84	2	5.89	5.89	7.2	5.6	1.8	1.342	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/23/83-07/18/84	2	1.287	1.287	2.512	0.063	2.998	1.732	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	1	15.	15.	15.	15.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0135

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00							1	0	0.00

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

EPA Water Quality Criteria Analysis for Station: APIS0135

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400 PH	Fresh Chronic	9.	2	0	0.00	1	0	0.00							1	0	0.00
	Other-Lo Lim.	6.5	2	1	0.50	1	0	0.00							1	1	1.00

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

Station Inventory for Station: APIS0136

NPS Station ID: APIS0136
LAT/LON: 46.956809/ -90.733782
Agency: 11NPSWRD
Date Created: 10/17/98
Location: OAK ISLAND SITE #5C
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): APIS_USGS_5C
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 700
Water Body Id:
Minor Basin: MONTREAL
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE OAK ISLAND WI 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. OAK ISLAND SITE #5C IS AT A STREAM AND IS LOCATED INSIDE THE APOSTLE ISLANDS NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE USGS WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY W.J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVES OF THE REPORT WERE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY DURING 1979-1984 WATER YEARS AND TO PROVIDEA QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE." LATITUDE AND LONGITUDE COORDINATE VALUES WERE OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP USING FIGURE 3 IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WI 54814 (TEL. 715-779-3397). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NPSWRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0136

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-06/23/83	1	11.9	11.9	11.9	11.9	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-07/18/84	2	0.002	0.002	0.003	0.	0.	0.002	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-06/23/83	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/23/83-06/23/83	1	9.3	9.3	9.3	9.3	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/23/83-06/23/83	1	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/23/83-06/23/83	1	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/23/83-06/23/83	1	2.512	2.512	2.512	2.512	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0136

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00										1	0	0.00
00400	PH	Fresh Chronic	9.	1	0	0.00										1	0	0.00
		Other-Lo Lim.	6.5	1	1	1.00										1	1	1.00

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

Station Inventory for Station: APIS0137

NPS Station ID: APIS0137
LAT/LON: 46.951476/ -90.733616
Agency: 11NPSWRD
Date Created: 10/17/98
Location: OAK ISLAND SITE #6D
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): APIS_USGS_6D
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 790
Water Body Id:
Minor Basin: MONTREAL
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE OAK ISLAND WI 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. OAK ISLAND SITE #6D IS AT A STREAM AND IS LOCATED INSIDE THE APOSTLE ISLANDS NATIONAL LAKESHORE BOUNDARIES. DATA ARE FROM THE USGS WATER RESOURCES INVESTIGATIONS REPORT 87-4220; "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE; NORTHERN WISCONSIN" BY W.J. ROSE (1988); PREPARED BY THE U.S. GEOLOGICAL SURVEY. THE OBJECTIVES OF THE REPORT WERE "TO SUMMARIZE WATER-RESOURCES DATA THAT WERE COLLECTED BY THE U.S. GEOLOGICAL SURVEY DURING 1979-1984 WATER YEARS AND TO PROVIDEA QUALITATIVE DESCRIPTION OF SELECTED HYDROLOGIC COMPONENTS OF LAKESHORE." LATITUDE AND LONGITUDE COORDINATE VALUES WERE OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP USING FIGURE 3 IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WI 54814 (TEL. 715-779-3397). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NPSWRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: APIS0137

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/83-07/18/84	2	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/83-07/18/84	2	0.045	0.045	0.05	0.04	0.	0.007	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/83-07/18/84	2	43.	43.	48.	38.	50.	7.071	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/23/83-07/18/84	2	9.65	9.65	9.9	9.4	0.125	0.354	**	**	**	**
00400	PH (STANDARD UNITS)	06/23/83-07/18/84	2	6.7	6.7	7.3	6.1	0.72	0.849	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/23/83-07/18/84	2	6.374	6.374	7.3	6.1	0.932	0.965	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/23/83-07/18/84	2	0.422	0.422	0.794	0.05	0.277	0.526	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/84-07/18/84	1	15.	15.	15.	15.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0137

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00							1	0	0.00

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

EPA Water Quality Criteria Analysis for Station: APIS0137

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400 PH	Fresh Chronic	9.	2	0	0.00	1	0	0.00							1	0	0.00
	Other-Lo Lim.	6.5	2	1	0.50	1	0	0.00							1	1	1.00

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

Station Inventory for Station: APIS0138

NPS Station ID: APIS0138
LAT/LON: 46.661254/ -90.737698
Agency: 21WITIS
Date Created: 12/17/88
Location: KAKAGON SLOUGH
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE/TISSUE
STORET Station ID(s): 025021 /8280MA025021/4803W105021
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 55
Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 2.20
On/Off RF1:
RF3 Index: 04010301000209.21
RF3 Mile Point: 9.74
Distance from RF3: 0.04
On/Off RF3:
Description:
STATION FOR LEE LIEBENSTEIN OF BUR WATER RES MGT (608)266-0164 FISH TOXICS MONITORING
LEE LIEBENSTEIN (608) 266-0164 BUREAU WATER RES MAN

Parameter Inventory for Station: APIS0138

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: APIS0139

NPS Station ID: APIS0139 LAT/LON: 46.963615/ -90.745948 Agency: 11NPSWRD Date Created: 04/04/98
Location: LAKE SUPERIOR 1/4 MILE NORTH OF OAK ISLAND FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): APIS_UW_OAKSED
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE OAK ISLAND WISCONSIN 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON LAKE SUPERIOR APPROXIMATELY 1/4 MILE NORTH OF OAK ISLAND. SEDIMENT SAMPLES FOR THIS SITE WERE COLLECTED ON JULY 22 1986 AND AUGUST 14 1987. SAMPLES WERE ANALYZED FOR SEVERAL CHEMICAL CONCENTRATIONS ON A DRY WEIGHT BASIS. VALUES ARE REPORTED AS THE MEAN OF 2 TO 3 REPLICATE SAMPLES. THE RESULTS ARE IN "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE 1986-1988" BY MARY BALCER AND DENNIS MCCAULEY WITH THE CENTER FOR LAKE SUPERIOR ENVIRONMENTAL STUDIES; UNIVERSITY OF WISCONSIN-SUPERIOR (MARCH 1989). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0139

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/22/86-08/14/87	2	112.55	112.55	183.	42.1	9926.405	99.631	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/22/86-08/14/87	2 ##	0.075	0.075	0.1	0.05	0.001	0.035	**	**	**	**
81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	07/22/86-08/14/87	2	83.6	83.6	84.1	83.1	0.5	0.707	**	**	**	**
81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	07/22/86-08/14/87	2	1704.5	1704.5	2319.	1090.	755220.5	869.034	**	**	**	**

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

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

Station Inventory for Station: APIS0140

NPS Station ID: APIS0140
LAT/LON: 46.750005/ -90.750005
Agency: 21WITIS
Date Created: 02/11/89
Location: LAKE SUPERIOR 14 GRID 1409
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE/TISSUE
STORET Station ID(s): 025015 /8280MA025015
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 55
Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
STATION FOR LEE LIEBENSTEIN OF BUR WATER RES MGT (608)266-0164

Parameter Inventory for Station: APIS0140

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/26/82-08/11/92	11	801.	592.455	852.	291.	79838.473	282.557	291.2	301.	851.	852.
00023	SAMPLE WEIGHT IN POUNDS	10/26/82-08/11/92	11	2.54	2.804	6.17	0.07	7.61	2.759	0.078	0.11	5.73	6.148
00024	SAMPLE LENGTH IN INCHES	10/26/82-08/11/92	11	21.95	17.714	29.5	6.7	97.905	9.895	6.92	7.8	27.6	29.18
34690	PCB - 1254 WET WGTTISMG/KG	07/28/92-08/11/92	2	0.059	0.059	0.071	0.047	0.	0.017	**	**	**	**
34691	TOXAPHENE WET WGTTISMG/KG	10/26/82-10/26/82	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/17/87-08/11/92	7 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/17/87-08/11/92	7 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39302	P P DDT IN TISSUE WET WGT (UG/G)	10/17/87-08/11/92	7 ##	0.025	0.034	0.09	0.025	0.001	0.025	**	**	**	**
39307	O P DDT IN TISSUE WET WGT (UG/G)	10/17/87-08/11/92	7 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39312	P P DDD IN TISSUE WET WGT (UG/G)	10/17/87-08/11/92	7 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	10/17/87-08/11/92	7 ##	0.025	0.069	0.3	0.025	0.011	0.103	**	**	**	**
39325	O,P DDD IN TISSUE WET WGT (UG/G)	10/17/87-08/11/92	7 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39329	O,P DDE IN TISSUE, WET WGT(UG/G)	10/17/87-08/11/92	7 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	10/17/87-08/11/92	7	0.02	0.026	0.06	0.01	0.	0.019	**	**	**	**
39407	TOXAPHENE IN FISH OR ANIMAL(UG/KG WET WEIGHT)	08/05/88-08/18/88	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39515	PCBS (MG/KG) FISH TISSUE MG/KG	10/26/82-08/18/88	5 ##	0.1	0.512	1.4	0.1	0.355	0.596	**	**	**	**
71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	08/05/88-08/11/92	4	0.05	0.079	0.2	0.015	0.007	0.083	**	**	**	**
78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	10/17/87-08/11/92	7 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	10/17/87-08/11/92	7 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
78926	FAT, PERCENT, IN TISSUE, WET WEIGHT %	10/26/82-08/11/92	9	9.6	8.789	20.	0.6	31.706	5.631	0.6	3.85	11.	20.
78929	PCB 1254/1260, TISSUE, WET WEIGHT MG/KG	10/17/87-10/17/87	2	0.57	0.57	0.93	0.21	0.259	0.509	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	10/17/87-08/11/92	9	10.	6.111	10.	1.	21.361	4.622	1.	1.	10.	10.

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

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

Seasonal Analysis for Season #1: 7/15 to 11/30 - Station APIS0140

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/26/82-08/11/92	11	801.	592.455	852.	291.	79838.473	282.557	291.2	301.	851.	852.
00023	SAMPLE WEIGHT IN POUNDS	10/26/82-08/11/92	11	2.54	2.804	6.17	0.07	7.61	2.759	0.078	0.11	5.73	6.148
00024	SAMPLE LENGTH IN INCHES	10/26/82-08/11/92	11	21.95	17.714	29.5	6.7	97.905	9.895	6.92	7.8	27.6	29.18
78926	FAT, PERCENT, IN TISSUE, WET WEIGHT %	10/26/82-08/11/92	9	9.6	8.789	20.	0.6	31.706	5.631	0.6	3.85	11.	20.

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

Station Inventory for Station: APIS0141

NPS Station ID: APIS0141
LAT/LON: 46.651838/ -90.750005
Agency: 21WITIS
Date Created: 08/06/88
Location: LAKE SUPERIOR 15 KAKAGON SLOUGH
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE/TISSUE
STORET Station ID(s): 025009 /8280MA025009
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 55
Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 1.30
On/Off RF1:
RF3 Index: 04010301000209.21
RF3 Mile Point: 11.08
Distance from RF3: 0.02
On/Off RF3:
Description:
STATION FOR LEE LIEBENSTEIN OF BUR WATER RES MGT (608)266-0164

Parameter Inventory for Station: APIS0141

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: APIS0142

NPS Station ID: APIS0142
LAT/LON: 46.916670/ -90.750005
Agency: 21WITIS
Date Created: 10/22/88
Location: LAKE SUPERIOR 13 GRID 1309
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE/TISSUE
STORET Station ID(s): 045025 /8280MA045025
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 55
Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 0.60
On/Off RF1:
RF3 Index: 04010301000300.00
RF3 Mile Point: 0.02
Distance from RF3: 0.00
On/Off RF3:
Description:
STATION FOR LEE LIEBENSTEIN OF BUR WATER RES MGT (608)266-0164 FISH TOXICS MONITORING
LEE LIEBENSTEIN (608) 266-0164 BUREAU WATER RES MAN

Parameter Inventory for Station: APIS0142

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/29/85-05/02/89	3	821.	651.	831.	301.	91900.	303.15	**	**	**	**
00023	SAMPLE WEIGHT IN POUNDS	07/29/85-05/02/89	3	1.15	3.72	10.01	0.	30.004	5.478	**	**	**	**
00024	SAMPLE LENGTH IN INCHES	07/29/85-05/02/89	3	19.	21.923	30.1	16.67	51.501	7.176	**	**	**	**
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	07/29/85-05/02/89	3 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	07/29/85-05/02/89	3 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	07/29/85-07/29/85	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	07/29/85-07/29/85	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39302	P P DDT IN TISSUE WET WGT (UG/G)	07/29/85-05/02/89	3 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39307	O P DDT IN TISSUE WET WGT (UG/G)	07/29/85-05/02/89	3 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39312	P P DDD IN TISSUE WET WGT (UG/G)	07/29/85-05/02/89	3 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	07/29/85-05/02/89	3 ##	0.025	0.033	0.05	0.025	0.	0.014	**	**	**	**
39325	O,P DDD IN TISSUE WET WGT (UG/G)	07/29/85-05/02/89	3 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39329	O,P DDE IN TISSUE, WET WGT(UG/G)	07/29/85-05/02/89	3 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	07/29/85-05/02/89	3 ##	0.01	0.013	0.02	0.01	0.	0.006	**	**	**	**
39407	TOXAPHENE IN FISH OR ANIMAL(UG/KG WET WEIGHT)	07/27/88-07/27/88	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39515	PCBS (MG/KG) FISH TISSUE MG/KG	07/29/85-05/02/89	3 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/29/85-07/29/85	1	0.13	0.13	0.13	0.13	0.	0.	**	**	**	**
71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	07/27/88-05/02/89	2	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	07/27/88-05/02/89	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	07/27/88-05/02/89	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
78926	FAT, PERCENT, IN TISSUE, WET WEIGHT %	07/29/85-05/02/89	3	2.4	5.	12.	0.6	37.56	6.129	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	07/27/88-05/02/89	2	2.	2.	3.	1.	2.	1.414	**	**	**	**

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

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

Station Inventory for Station: APIS0143

NPS Station ID: APIS0143
LAT/LON: 47.083338/ -90.750005
Agency: 21WITIS
Date Created: 02/11/89
Location: LAKE SUPERIOR 12 GRID 1209
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE/TISSUE
STORET Station ID(s): 025013 /8280MA025013
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 55
Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
STATION FOR LEE LIEBENSTEIN OF BUR WATER RES MGT (608)266-0164

Parameter Inventory for Station: APIS0143

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/20/88-08/06/92	10	851.5	795.8	854.	291.	31460.622	177.371	347.	851.	852.25	853.9
00023	SAMPLE WEIGHT IN POUNDS	07/20/88-08/06/92	10	0.31	1.371	9.94	0.09	9.242	3.04	0.09	0.105	0.853	9.089
00024	SAMPLE LENGTH IN INCHES	07/20/88-08/06/92	10	10.4	12.82	31.4	7.7	53.12	7.288	7.7	7.925	15.025	29.95
34670	PCB - 1260 WET WGTTISMG/KG	05/08/91-05/08/91	1	0.87	0.87	0.87	0.87	0.	0.	**	**	**	**
34690	PCB - 1254 WET WGTTISMG/KG	07/21/92-08/06/92	2	0.059	0.059	0.064	0.053	0.	0.008	**	**	**	**
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	07/20/88-08/06/92	8 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	07/20/88-08/06/92	8 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39302	P P DDT IN TISSUE WET WGT (UG/G)	07/20/88-08/06/92	8 ##	0.025	0.031	0.07	0.025	0.	0.016	**	**	**	**
39307	O P DDT IN TISSUE WET WGT (UG/G)	07/20/88-08/06/92	8 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39312	P P DDD IN TISSUE WET WGT (UG/G)	07/20/88-08/06/92	8 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	07/20/88-08/06/92	8 ##	0.025	0.048	0.21	0.025	0.004	0.065	**	**	**	**
39325	O,P DDD IN TISSUE WET WGT (UG/G)	07/20/88-08/06/92	8 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39329	O,P DDE IN TISSUE, WET WGT(UG/G)	07/20/88-08/06/92	8 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	07/20/88-08/06/92	8 ##	0.01	0.019	0.04	0.01	0.	0.012	**	**	**	**
39407	TOXAPHENE IN FISH OR ANIMAL(UG/KG WET WEIGHT)	07/20/88-07/27/88	5 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39515	PCBS (MG/KG) FISH TISSUE MG/KG	07/20/88-07/27/88	5 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	07/20/88-08/06/92	7	0.04	0.04	0.1	0.015	0.001	0.029	**	**	**	**
78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	07/20/88-08/06/92	8 ##	0.025	0.031	0.07	0.025	0.	0.016	**	**	**	**
78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	07/20/88-08/06/92	8 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
78926	FAT, PERCENT, IN TISSUE, WET WEIGHT %	07/20/88-08/06/92	8	5.4	6.313	14.	0.3	16.458	4.057	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	07/20/88-08/06/92	10	3.5	5.1	10.	1.	19.211	4.383	1.	1.	10.	10.

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

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

Station Inventory for Station: APIS0144

NPS Station ID: APIS0144 LAT/LON: 46.928892/ -90.752503 Agency: 112WRD Date Created: 11/07/81
Location: LAKE SUPERIOR AT DOCK ON OAK ISLAND, WI FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 465544090450900
RMI-Indexes: Within Park Boundary: Yes
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: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0144

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/81-07/23/81	1	17.5	17.5	17.5	17.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/23/81-07/23/81	1	97.	97.	97.	97.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/23/81-07/23/81	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/23/81-07/23/81	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/23/81-07/23/81	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/81-07/23/81	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	07/23/81-09/09/81	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	07/23/81-09/09/81	2 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			0.5								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/23/81-09/09/81	2 ##	21.25	21.25	42.	0.5	861.125	29.345	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/23/81-09/09/81	2 ##	0.661	0.661	1.623	-0.301	1.851	1.361	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			4.583								
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/23/81-07/23/81	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0144

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: APIS0145

NPS Station ID: APIS0145 LAT/LON: 46.866115/ -90.760837 Agency: 112WRD Date Created: 11/07/81
Location: LAKE SUPERIOR SITE 4 NR RED CLIFF & BASSWOOD IS FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 465158090453900
RMI-Indexes: Within Park Boundary: No
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: 11.60 On/Off RF1:
RF3 Index: 04010301000425.85 RF3 Mile Point: 27.59 Distance from RF3: 1.29 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0145

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/21/81-07/26/82	12	52.5	48.833	98.	0.	1466.152	38.29	0.	5.	85.	95.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/21/81-07/26/82	9	18.8	13.922	19.5	4.8	43.477	6.594	4.8	6.	19.25	19.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/21/81-07/21/81	6	83.	83.	83.	83.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/21/81-07/26/82	9	7.4	7.344	7.6	7.1	0.04	0.201	7.1	7.1	7.5	7.6
00400	CONVERTED PH (STANDARD UNITS)	07/21/81-07/26/82	9	7.4	7.303	7.6	7.1	0.042	0.205	7.1	7.1	7.5	7.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/21/81-07/26/82	9	0.04	0.05	0.079	0.025	0.001	0.023	0.025	0.032	0.079	0.079
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/21/81-07/26/82	9 ##	0.005	0.007	0.01	0.005	0.	0.003	0.005	0.005	0.01	0.01
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/21/81-07/26/82	3	58.	87.	160.	43.	4053.	63.663	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/21/81-07/26/82	9	2.	1.956	2.5	1.6	0.088	0.296	1.6	1.65	2.15	2.5
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/21/81-07/26/82	3	0.1	0.117	0.2	0.05	0.006	0.076	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	07/21/81-07/21/81	2	4.	4.	4.2	3.8	0.08	0.283	**	**	**	**
00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/21/81-07/26/82	3	4.3	4.533	5.3	4.	0.463	0.681	**	**	**	**
39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	6 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39250	NAPTHALENES, POLYCHLORINATED (UG/L)	07/21/81-07/21/81	6 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	07/21/81-07/21/81	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	6 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	07/21/81-07/21/81	6 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	07/21/81-07/21/81	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	07/21/81-07/21/81	6 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	07/21/81-07/21/81	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	6 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	6 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	2 ##	0.075	0.075	0.1	0.05	0.001	0.035	**	**	**	**
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	6 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	2 ##	0.175	0.175	0.3	0.05	0.031	0.177	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	6 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/21/81-07/21/81	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	6 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/21/81-07/21/81	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	6 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	6 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/21/81-07/21/81	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	6 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	07/21/81-07/21/81	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	6 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**

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

Parameter Inventory for Station: APIS0145

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	07/21/81-07/21/81	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	6 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	07/21/81-07/21/81	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	07/21/81-07/21/81	6 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/21/81-07/21/81	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39755	MIREX, TOTAL (UG/L)	07/21/81-07/21/81	6 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	07/21/81-07/21/81	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
70330	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .031MM	07/26/82-07/26/82	1	9.	9.	9.	9.	0.	0.	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/21/81-07/26/82	7	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	07/21/81-07/26/82	9 ##	0.05	0.061	0.1	0.05	0.	0.022	0.05	0.05	0.075	0.1
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/21/81-07/26/82	3	0.	0.002	0.005	0.	0.	0.003	**	**	**	**
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/26/82-07/26/82	1	19.	19.	19.	19.	0.	0.	**	**	**	**
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/26/82-07/26/82	1	38.	38.	38.	38.	0.	0.	**	**	**	**
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/26/82-07/26/82	1	64.	64.	64.	64.	0.	0.	**	**	**	**
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/26/82-07/26/82	1	84.	84.	84.	84.	0.	0.	**	**	**	**
80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	07/26/82-07/26/82	1	98.	98.	98.	98.	0.	0.	**	**	**	**
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	07/26/82-07/26/82	1	100.	100.	100.	100.	0.	0.	**	**	**	**
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	07/21/81-07/21/81	2 ##	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: APIS0145

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400	PH	Fresh Chronic	9.	9	0	0.00	9	0	0.00									
		Other-Lo Lim.	6.5	9	0	0.00	9	0	0.00									
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	6	0	0.00	6	0	0.00									
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	6	0	0.00	6	0	0.00									
		Drinking Water	0.2	6	0	0.00	6	0	0.00									
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	6	0	0.00	6	0	0.00									
		Drinking Water	2.	6	0	0.00	6	0	0.00									
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	6	0	0.00	6	0	0.00									
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	6	0	0.00	6	0	0.00									
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	6	0	0.00	6	0	0.00									
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	6	0	0.00	6	0	0.00									
39388	ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute	0.22	6	0	0.00	6	0	0.00									
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	6	0	0.00	6	0	0.00									
		Drinking Water	2.	6	0	0.00	6	0	0.00									
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	6	0	0.00	6	0	0.00									
		Drinking Water	3.	6	0	0.00	6	0	0.00									
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	6	0	0.00	6	0	0.00									
		Drinking Water	0.4	6	0	0.00	6	0	0.00									
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	6	0	0.00	6	0	0.00									
		Drinking Water	0.2	6	0	0.00	6	0	0.00									
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	6	0	0.00	6	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	9	0	0.00	9	0	0.00									
		Drinking Water	2.	9	0	0.00	9	0	0.00									

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

Station Inventory for Station: APIS0146

NPS Station ID: APIS0146 LAT/LON: 46.720753/ -90.766366 Agency: 11NPSWRD Date Created: 04/04/98
Location: LAKE SUPERIOR EAST OF SOUTH PART OF LONG ISLAND FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): APIS_UW_LONGA
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE LONG ISLAND WISCONSIN 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON LAKE SUPERIOR APPROXIMATELY 1/4 MILE EAST OF THE SOUTH PART OF LONG ISLAND. SAMPLES FOR THIS SITE WERE COLLECTED IN MIDSUMMER OF 1988. SAMPLES WERE ANALYZED FOR FECAL COLIFORM AND FECAL STREPTOCOCCUS. THE RESULTS ARE IN "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE 1986-1987" BY MARY BALCER AND DENNIS MCCAULEY WITH THE CENTER FOR LAKE SUPERIOR ENVIRONMENTAL STUDIES; UNIVERSITY OF WISCONSIN-SUPERIOR (MARCH 1989). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0146

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/15/88-08/23/88	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/15/88-08/23/88	2 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			0.5								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/15/88-08/23/88	2	27.	27.	52.	2.	1250.	35.355	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/15/88-08/23/88	2	1.009	1.009	1.716	0.301	1.001	1.001	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			10.198								

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

EPA Water Quality Criteria Analysis for Station: APIS0146

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: APIS0147

NPS Station ID: APIS0147
LAT/LON: 46.658337/ -90.766670
Agency: 21WIDNR
Date Created: 08/03/78
Location: LAKE SUPERIOR-OAK POINT
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 180
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010301
Depth of Water: 999
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: WISC & MINN DRAINAGE
ECO Region:
RF1 Index: 04010301002
RF1 Mile Point: 0.430
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 040103010000101.35
RF3 Mile Point: 1.99
Distance from RF3: 0.01
On/Off RF3:
Description:
DATA FROM WISCONSIN DEPARTMENT OF NATURAL RESOURCES FISH SAMPLING PROGRAMS FOR MERCURY, PCBS, AND PESTICIDES
SAMPLE TAKEN FROM LAKE SUPERIOR - OAK POINT

Parameter Inventory for Station: APIS0147

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/22/70-06/22/70	9	551.	517.222	555.	471.	1801.944	42.449	471.	472.5	553.5	555.
00024	SAMPLE LENGTH IN INCHES	06/22/70-06/22/70	9	18.	18.333	23.1	14.6	8.64	2.939	14.6	15.85	20.8	23.1
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	06/22/70-06/22/70	9	0.4	0.436	0.84	0.22	0.037	0.192	0.22	0.28	0.53	0.84
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	06/22/70-06/22/70	9	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.

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

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

Station Inventory for Station: APIS0148

NPS Station ID: APIS0148 LAT/LON: 46.883615/ -90.774170 Agency: 112WRD Date Created: 11/07/81
Location: LAKE SUPERIOR AT FLOATING DOCK AT RED CLIFF BAY FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 465301090462700
RMI-Indexes: Within Park Boundary: No
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: 0.40 On/Off RF1:
RF3 Index: 04010301000427.21 RF3 Mile Point: 27.20 Distance from RF3: 0.12 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0148

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/81-09/09/81	2	18.25	18.25	19.5	17.	3.125	1.768	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/23/81-07/23/81	1	106.	106.	106.	106.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/09/81-09/09/81	1	9.4	9.4	9.4	9.4	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/81-09/09/81	1	101.	101.	101.	101.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/23/81-07/23/81	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/23/81-07/23/81	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/23/81-07/23/81	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/81-07/23/81	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	07/23/81-09/09/81	2	11.	11.	19.	3.	128.	11.314	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	07/23/81-09/09/81	2	0.878	0.878	1.279	0.477	0.321	0.567	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			7.55								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/23/81-09/09/81	2	96.5	96.5	190.	3.	17484.5	132.229	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/23/81-09/09/81	2	1.378	1.378	2.279	0.477	1.623	1.274	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			23.875								
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/23/81-07/23/81	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0148

				Total	Exceed	Prop.	7/15-11/30			12/01-2/29			3/01-4/14			4/15-7/14		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: APIS0149

NPS Station ID: APIS0149 LAT/LON: 46.716809/ -90.775892 Agency: 11NPSWRD Date Created: 04/04/98
Location: LAKE SUPERIOR 1/4 MILE SOUTHWEST OF LONG ISLAND FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): APIS_UW_LONGE
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE LONG ISLAND WISCONSIN 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON LAKE SUPERIOR APPROXIMATELY 1/4 MILE SOUTHWEST OF THE SOUTH PART OF LONG ISLAND. SAMPLES FOR THIS SITE WERE COLLECTED IN MIDSUMMER OF 1988. SAMPLES WERE ANALYZED FOR FECAL COLIFORM AND FECAL STREPTOCOCCUS. THE RESULTS ARE IN "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE 1986-1987" BY MARY BALCER AND DENNIS MCCAULEY WITH THE CENTER FOR LAKE SUPERIOR ENVIRONMENTAL STUDIES; UNIVERSITY OF WISCONSIN-SUPERIOR (MARCH 1989). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0149

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/15/88-08/23/88	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/15/88-08/23/88	2 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			0.5								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/15/88-08/23/88	2	42.5	42.5	79.	6.	2664.5	51.619	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/15/88-08/23/88	2	1.338	1.338	1.898	0.778	0.627	0.792	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			21.772								

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

EPA Water Quality Criteria Analysis for Station: APIS0149

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: APIS0150

NPS Station ID: APIS0150 | LAT/LON: 46.731504/ -90.783698 | Agency: 11NPSWRD | Date Created: 04/04/98
Location: LAKE SUPERIOR NORTH OF LONG ISLAND | FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE | STORET Station ID(s): APIS_UW_LONGB
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 04010301 | Depth of Water: 0 | Aquifer:
Major Basin: LAKE SUPERIOR | Elevation: 0 | Water Body Id:
Minor Basin: MONTREAL | ECO Region:
RF1 Index: 04010301 | RF1 Mile Point: 0.000 | Distance from RF1: 13.80 | On/Off RF1:
RF3 Index: 04010301001007.02 | RF3 Mile Point: 10.66 | Distance from RF3: 1.27 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE LONG ISLAND WISCONSIN 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON LAKE SUPERIOR APPROXIMATELY 1/4 MILE NORTH OF THE NORTHEAST PART OF LONG ISLAND. SAMPLES FOR THIS SITE WERE COLLECTED IN MIDSUMMER OF 1988. SAMPLES WERE ANALYZED FOR FECAL COLIFORM AND FECAL STREPTOCOCCUS. THE RESULTS ARE IN "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE 1986-1987" BY MARY BALCER AND DENNIS MCCAULEY WITH THE CENTER FOR LAKE SUPERIOR ENVIRONMENTAL STUDIES; UNIVERSITY OF WISCONSIN-SUPERIOR (MARCH 1989). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0150

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/15/88-08/23/88	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/15/88-08/23/88	2 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			0.5								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/15/88-08/23/88	2 ##	16.75	16.75	33.	0.5	528.125	22.981	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/15/88-08/23/88	2 ##	0.609	0.609	1.519	-0.301	1.655	1.287	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			4.062								

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

EPA Water Quality Criteria Analysis for Station: APIS0150

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: APIS0151

NPS Station ID: APIS0151
LAT/LON: 46.852504/ -90.786115
Agency: 112WRD
Date Created: 11/07/81
Location: LAKE SUPERIOR AT DOCK IN RED CLIFF, WI
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 465109090471000
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020100
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04020100
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 04010301074300.00
RF3 Mile Point: 3.08
Distance from RF3: 0.21
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0151

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/81-09/09/81	2	18.25	18.25	19.	17.5	1.125	1.061	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/23/81-07/23/81	1	100.	100.	100.	100.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/09/81-09/09/81	1	9.2	9.2	9.2	9.2	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/81-09/09/81	1	99.	99.	99.	99.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/23/81-07/23/81	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/23/81-07/23/81	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/23/81-07/23/81	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/81-07/23/81	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	07/23/81-09/09/81	2	11.	11.	19.	3.	128.	11.314	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	07/23/81-09/09/81	2	0.878	0.878	1.279	0.477	0.321	0.567	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			7.55								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/23/81-09/09/81	2	120.5	120.5	240.	1.	28560.5	168.999	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/23/81-09/09/81	2	1.19	1.19	2.38	0.	2.833	1.683	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			15.492								
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/23/81-07/23/81	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0151

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: APIS0152

NPS Station ID: APIS0152 LAT/LON: 46.722892/ -90.786477 Agency: 11NPSWRD Date Created: 04/04/98
Location: LAKE SUPERIOR 1/4 MILE SOUTH OF LONG ISLAND FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): APIS_UW_LONGD
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE LONG ISLAND WISCONSIN 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON LAKE SUPERIOR APPROXIMATELY 1/4 MILE SOUTH OF THE MIDDLE PART OF LONG ISLAND. SAMPLES FOR THIS SITE WERE COLLECTED IN MIDSUMMER OF 1988. SAMPLES WERE ANALYZED FOR FECAL COLIFORM AND FECAL STREPTOCOCCUS. THE RESULTS ARE IN "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE 1986-1987" BY MARY BALCER AND DENNIS MCCAULEY WITH THE CENTER FOR LAKE SUPERIOR ENVIRONMENTAL STUDIES; UNIVERSITY OF WISCONSIN-SUPERIOR (MARCH 1989). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0152

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/15/88-08/23/88	2 ##	1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/15/88-08/23/88	2 ##	0.	0.	0.301	-0.301	0.181	0.426	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/15/88-08/23/88	2	12.	12.	22.	2.	200.	14.142	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/15/88-08/23/88	2	0.822	0.822	1.342	0.301	0.542	0.736	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			6.633								

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

EPA Water Quality Criteria Analysis for Station: APIS0152

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: APIS0153

NPS Station ID: APIS0153
LAT/LON: 46.887226/ -90.788337
Agency: 112WRD
Date Created: 08/24/84
Location: RED CLIFF CREEK NEAR RED CLIFF, WI
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 040262189
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 04010301067400.00
RF3 Mile Point: 1.31
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0153

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/08/84-07/16/84	2	18.	18.	19.5	16.5	4.5	2.121	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/08/84-06/08/84	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	07/16/84-07/16/84	1	744.	744.	744.	744.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/08/84-07/16/84	2	24.15	24.15	48.	0.3	1137.645	33.729	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/08/84-07/16/84	2	143.5	143.5	215.	72.	10224.5	101.116	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/84-07/16/84	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/08/84-07/16/84	2	7.6	7.6	7.9	7.3	0.18	0.424	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/08/84-07/16/84	2	7.504	7.504	7.9	7.3	0.199	0.446	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/08/84-07/16/84	2	0.031	0.031	0.05	0.013	0.001	0.027	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	06/08/84-07/16/84	2	7.35	7.35	7.8	6.9	0.405	0.636	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/08/84-07/16/84	2	7.15	7.15	7.8	6.9	0.485	0.697	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/08/84-07/16/84	2	0.071	0.071	0.126	0.016	0.006	0.078	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/16/84-07/16/84	1	99.	99.	99.	99.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	06/08/84-07/16/84	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	06/08/84-07/16/84	2 ##	0.013	0.013	0.02	0.005	0.	0.011	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	06/08/84-07/16/84	2	1.5	1.5	2.8	0.2	3.38	1.838	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/08/84-07/16/84	2 ##	0.125	0.125	0.2	0.05	0.011	0.106	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/08/84-07/16/84	2	0.05	0.05	0.08	0.02	0.002	0.042	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/08/84-07/16/84	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/08/84-07/16/84	2	18.3	18.3	27.	9.6	151.38	12.304	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/08/84-07/16/84	2	4.75	4.75	7.1	2.4	11.045	3.323	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/08/84-07/16/84	2	2.65	2.65	3.6	1.7	1.805	1.344	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/08/84-07/16/84	2	1.65	1.65	1.9	1.4	0.125	0.354	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/08/84-07/16/84	2	3.5	3.5	5.	2.	4.5	2.121	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/08/84-07/16/84	2 ##	5.55	5.55	11.	0.1	59.405	7.707	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/08/84-07/16/84	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/08/84-07/16/84	2	6.95	6.95	7.3	6.6	0.245	0.495	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/08/84-07/16/84	2	113.5	113.5	133.	94.	760.5	27.577	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	06/08/84-07/16/84	2	41.5	41.5	69.	14.	1512.5	38.891	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/08/84-07/16/84	2	286.	286.	565.	7.	155682.	394.566	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0153

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Fresh Chronic	9.	2	0	0.00	1	0	0.00							1	0	0.00
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00							1	0	0.00
00403	PH, LAB	Fresh Chronic	9.	2	0	0.00	1	0	0.00							1	0	0.00
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00							1	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	2	0	0.00	1	0	0.00							1	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	2	0	0.00	1	0	0.00							1	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	1	0	0.00							1	0	0.00
		Drinking Water	250.	2	0	0.00	1	0	0.00							1	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00							1	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	1	0	0.00							1	0	0.00

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

Station Inventory for Station: APIS0154

NPS Station ID: APIS0154
LAT/LON: 46.778892/ -90.788892
Agency: 1115GLSB
Date Created: 08/25/78
Location: LA POINTE HARBOR
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): LPT752 /LPT75-02
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 999
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: WISC. & MINN. DRAINAGE
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
USEPA REGION 5 LAPOINTE HARBOR, WISCONSIN 12-11-75

Parameter Inventory for Station: APIS0154

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	12/11/75-12/11/75	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	12/11/75-12/11/75	1	4300.	4300.	4300.	4300.	0.	0.	**	**	**	**
00557	OIL & GREASE,SED,DRY WT,FREON EXTR-GRAV METH,MG/KG	12/11/75-12/11/75	1	800.	800.	800.	800.	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	12/11/75-12/11/75	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	12/11/75-12/11/75	1	68.	68.	68.	68.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	12/11/75-12/11/75	1	180.	180.	180.	180.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	12/11/75-12/11/75	1	650.	650.	650.	650.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	12/11/75-12/11/75	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	12/11/75-12/11/75	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	12/11/75-12/11/75	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	12/11/75-12/11/75	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	12/11/75-12/11/75	1	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	12/11/75-12/11/75	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	12/11/75-12/11/75	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	12/11/75-12/11/75	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	12/11/75-12/11/75	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	12/11/75-12/11/75	1	1700.	1700.	1700.	1700.	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	12/11/75-12/11/75	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	12/11/75-12/11/75	1	73.4	73.4	73.4	73.4	0.	0.	**	**	**	**
85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	12/11/75-12/11/75	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0155

NPS Station ID: APIS0155 LAT/LON: 46.970837/ -90.788892 Agency: 112WRD Date Created: 11/07/81
Location: LAKE SUPERIOR AT RASPBERRY ISLAND SPIT, WI FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 465815090472000
RMI-Indexes: Within Park Boundary: No
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: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0155

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/81-09/09/81	2	16.75	16.75	17.	16.5	0.125	0.354	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/23/81-07/23/81	1	96.	96.	96.	96.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/09/81-09/09/81	1	9.3	9.3	9.3	9.3	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/09/81-09/09/81	1	99.	99.	99.	99.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/23/81-07/23/81	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/23/81-07/23/81	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/23/81-07/23/81	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/81-07/23/81	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	07/23/81-09/09/81	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	07/23/81-09/09/81	2 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			0.5								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/23/81-09/09/81	2 ##	2.75	2.75	5.	0.5	10.125	3.182	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/23/81-09/09/81	2 ##	0.199	0.199	0.699	-0.301	0.5	0.707	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			1.581								
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/23/81-07/23/81	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0155

				Total	Exceed	Prop.	----------7/15-11/30----------			----------12/01-2/29----------			----------3/01-4/14----------			----------4/15-7/14----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: APIS0156

NPS Station ID: APIS0156
LAT/LON: 46.779170/ -90.789170
Agency: 1115GLSB
Date Created: 08/25/78
Location: LA POINTE HARBOR
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): LPT751 /LPT75-01
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 999
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: WISC. & MINN. DRAINAGE
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
USEPA REGION 5 LAPOINTE HARBOR, WISCONSIN 12-11-75

Parameter Inventory for Station: APIS0156

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	12/11/75-12/11/75	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	12/11/75-12/11/75	1	19000.	19000.	19000.	19000.	0.	0.	**	**	**	**
00557	OIL & GREASE,SED,DRY WT,FREON EXTR-GRAV METH,MG/KG	12/11/75-12/11/75	1	800.	800.	800.	800.	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	12/11/75-12/11/75	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	12/11/75-12/11/75	1	340.	340.	340.	340.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	12/11/75-12/11/75	1	200.	200.	200.	200.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	12/11/75-12/11/75	1	1000.	1000.	1000.	1000.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	12/11/75-12/11/75	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	12/11/75-12/11/75	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	12/11/75-12/11/75	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	12/11/75-12/11/75	1	9.4	9.4	9.4	9.4	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	12/11/75-12/11/75	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	12/11/75-12/11/75	1	37.	37.	37.	37.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	12/11/75-12/11/75	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	12/11/75-12/11/75	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	12/11/75-12/11/75	1	32.	32.	32.	32.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	12/11/75-12/11/75	1	3700.	3700.	3700.	3700.	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	12/11/75-12/11/75	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	12/11/75-12/11/75	1	70.9	70.9	70.9	70.9	0.	0.	**	**	**	**
85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	12/11/75-12/11/75	1	1.38	1.38	1.38	1.38	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0157

NPS Station ID: APIS0157
LAT/LON: 46.778892/ -90.789170
Agency: 1115GLSB
Date Created: 08/25/78
Location: LA POINTE HARBOR
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): LPT754 /LPT75-04
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 999
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: WISC. & MINN. DRAINAGE
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
USEPA REGION 5 LAPOINTE HARBOR, WISCONSIN 12-11-75

Parameter Inventory for Station: APIS0157

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	12/11/75-12/11/75	2	9.	9.	9.	9.	0.	0.	**	**	**	**
00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	12/11/75-12/11/75	2	3600.	3600.	3700.	3500.	20000.	141.421	**	**	**	**
00557	OIL & GREASE,SED,DRY WT,FREON EXTR-GRAV METH,MG/KG	12/11/75-12/11/75	2	550.	550.	600.	500.	5000.	70.711	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	12/11/75-12/11/75	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	12/11/75-12/11/75	2	45.5	45.5	62.	29.	544.5	23.335	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	12/11/75-12/11/75	2	40.	40.	41.	39.	2.	1.414	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	12/11/75-12/11/75	2	175.	175.	180.	170.	50.	7.071	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	12/11/75-12/11/75	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	12/11/75-12/11/75	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	12/11/75-12/11/75	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	12/11/75-12/11/75	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	12/11/75-12/11/75	2	2.3	2.3	2.4	2.2	0.02	0.141	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	12/11/75-12/11/75	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	12/11/75-12/11/75	2	13.	13.	14.	12.	2.	1.414	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	12/11/75-12/11/75	2 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	12/11/75-12/11/75	2	6.	6.	6.	6.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	12/11/75-12/11/75	2	1200.	1200.	1200.	1200.	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	12/11/75-12/11/75	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	12/11/75-12/11/75	2	77.45	77.45	78.1	76.8	0.845	0.919	**	**	**	**
85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	12/11/75-12/11/75	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0158

NPS Station ID: APIS0158
LAT/LON: 46.778892/ -90.789449
Agency: 1115GLSB
Date Created: 08/25/78
Location: LA POINTE HARBOR
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): LPT753 /LPT75-03
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 999
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: WISC. & MINN. DRAINAGE
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
USEPA REGION 5 LAPOINTE HARBOR, WISCONSIN 12-11-75

Parameter Inventory for Station: APIS0158

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	12/11/75-12/11/75	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	12/11/75-12/11/75	1	2000.	2000.	2000.	2000.	0.	0.	**	**	**	**
00557	OIL & GREASE,SED,DRY WT,FREON EXTR-GRAV METH,MG/KG	12/11/75-12/11/75	1	800.	800.	800.	800.	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	12/11/75-12/11/75	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	12/11/75-12/11/75	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	12/11/75-12/11/75	1	52.	52.	52.	52.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	12/11/75-12/11/75	1	370.	370.	370.	370.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	12/11/75-12/11/75	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	12/11/75-12/11/75	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	12/11/75-12/11/75	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	12/11/75-12/11/75	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	12/11/75-12/11/75	1	3.2	3.2	3.2	3.2	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	12/11/75-12/11/75	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	12/11/75-12/11/75	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	12/11/75-12/11/75	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	12/11/75-12/11/75	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	12/11/75-12/11/75	1	1700.	1700.	1700.	1700.	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	12/11/75-12/11/75	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	12/11/75-12/11/75	1	77.4	77.4	77.4	77.4	0.	0.	**	**	**	**
85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	12/11/75-12/11/75	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0159

NPS Station ID: APIS0159
LAT/LON: 46.778892/ -90.789726
Agency: 112WRD
Date Created: 12/11/78
Location: LAKE SUPERIOR AT MADELINE ISLAND
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 464644090472301
RMI-Indexes:
Within Park Boundary: No
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: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0159

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/78-09/28/78	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/28/78-09/28/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/78-09/28/78	1	100.	100.	100.	100.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/28/78-09/28/78	1	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/28/78-09/28/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/28/78-09/28/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/78-09/28/78	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/28/78-09/28/78	1	40.	40.	40.	40.	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	09/28/78-09/28/78	1	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	09/28/78-09/28/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/28/78-09/28/78	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	09/28/78-09/28/78	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	09/28/78-09/28/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/28/78-09/28/78	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/28/78-09/28/78	1	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/28/78-09/28/78	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/28/78-09/28/78	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	09/28/78-09/28/78	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	09/28/78-09/28/78	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/78-09/28/78	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/78-09/28/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/78-09/28/78	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/78-09/28/78	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/28/78-09/28/78	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/28/78-09/28/78	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/28/78-09/28/78	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/78-09/28/78	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/78-09/28/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/28/78-09/28/78	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/78-09/28/78	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/28/78-09/28/78	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/28/78-09/28/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01001	ARSENIC, SUSPENDED (UG/L AS AS)	09/28/78-09/28/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	09/28/78-09/28/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	09/28/78-09/28/78	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01006	BARIUM, SUSPENDED (UG/L AS BA)	09/28/78-09/28/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	09/28/78-09/28/78	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/28/78-09/28/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: APIS0159

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01026	CADMIUM, SUSPENDED (UG/L AS CD)	09/28/78-09/28/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	09/28/78-09/28/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/28/78-09/28/78	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01031	CHROMIUM, SUSPEND (UG/L AS CR)	09/28/78-09/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/28/78-09/28/78	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	09/28/78-09/28/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01036	COBALT, SUSPENDED (UG/L AS CO)	09/28/78-09/28/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	09/28/78-09/28/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/28/78-09/28/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01041	COPPER, SUSPENDED (UG/L AS CU)	09/28/78-09/28/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	09/28/78-09/28/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	09/28/78-09/28/78	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	09/28/78-09/28/78	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/28/78-09/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/28/78-09/28/78	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01050	LEAD, SUSPENDED (UG/L AS PB)	09/28/78-09/28/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	09/28/78-09/28/78	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	09/28/78-09/28/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	09/28/78-09/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/28/78-09/28/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	09/28/78-09/28/78	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01076	SILVER, SUSPENDED (UG/L AS AG)	09/28/78-09/28/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	09/28/78-09/28/78	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/28/78-09/28/78	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01091	ZINC, SUSPENDED (UG/L ZN)	09/28/78-09/28/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/28/78-09/28/78	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/28/78-09/28/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01146	SELENIUM, SUSPENDED (UG/L AS SE)	09/28/78-09/28/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	09/28/78-09/28/78	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/78-09/28/78	1	57.	57.	57.	57.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/28/78-09/28/78	1	44.	44.	44.	44.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/28/78-09/28/78	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	09/28/78-09/28/78	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	09/28/78-09/28/78	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71895	MERCURY, SUSPENDED (UG/L AS HG)	09/28/78-09/28/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	09/28/78-09/28/78	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0159

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01001	ARSENIC, SUSPENDED	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01006	BARIUM, SUSPENDED	Drinking Water	2000.	1	0	0.00	1	0	0.00									

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

EPA Water Quality Criteria Analysis for Station: APIS0159

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
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	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									
01031	CHROMIUM, SUSPENDED	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									
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.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01050	LEAD, SUSPENDED	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01076	SILVER, SUSPENDED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01091	ZINC, SUSPENDED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01146	SELENIUM, SUSPENDED	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
71895	MERCURY, SUSPENDED	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0160

NPS Station ID: APIS0160 LAT/LON: 46.718503/ -90.793143 Agency: 11NPSWRD Date Created: 04/04/98
Location: LAKE SUPERIOR INSIDE CHEQUAMEGON BAY FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): APIS_UW_LONGIN
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE LONG ISLAND WISCONSIN 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON LAKE SUPERIOR INSIDE CHEQUAMEGON BAY APPROXIMATELY 3/4 OF A MILE SOUTH OF LONG ISLAND. SAMPLES FOR THIS SITE WERE COLLECTED TWICE WEEKLY BETWEEN MID MAY AND SEPTEMBER OF 1987. SAMPLES WERE ANALYZED FOR FECAL COLIFORM AND FECAL STREPTOCOCCUS. THE RESULTS ARE IN "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE 1986-1987" BY MARY BALCER AND DENNIS MCCAULEY WITH THE CENTER FOR LAKE SUPERIOR ENVIRONMENTAL STUDIES; UNIVERSITY OF WISCONSIN-SUPERIOR (MARC 1989). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAU MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0160

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/26/87-09/04/87	20 ##	0.5	10.475	108.	0.5	823.144	28.69	0.5	0.5	2.5	70.8
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/26/87-09/04/87	20 ##	-0.301	0.102	2.033	-0.301	0.533	0.73	-0.301	-0.301	0.358	1.781
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.266								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/26/87-09/04/87	19	98.	335.632	2277.	10.	336747.801	580.3	28.	54.	380.	1486.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/26/87-09/04/87	19	1.991	2.117	3.357	1.	0.343	0.585	1.447	1.732	2.58	3.172
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			130.961								

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

EPA Water Quality Criteria Analysis for Station: APIS0160

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	20	0	0.00	12	0	0.00							8	0	0.00

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

Station Inventory for Station: APIS0161

NPS Station ID: APIS0161 LAT/LON: 46.732504/ -90.796309 Agency: 11NPSWRD Date Created: 04/04/98
Location: LAKE SUPERIOR OUTSIDE CHEQUAMEGON BAY FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): APIS_UW_LONGOUT
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE LONG ISLAND WISCONSIN 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON LAKE SUPERIOR OUTSIDE CHEQUAMEGON BAY APPROXIMATELY 1000 FEET NORTH OF LONG ISLAND. SAMPLES FOR THIS SITE WERE COLLECTED TWICE WEEKLY BETWEEN MID MAY AND SEPTEMBER OF 1987. SAMPLES WERE ANALYZED FOR FECAL COLIFORM AND FECAL STREPTOCOCCUS. THE RESULTS ARE IN "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE 1986-1987" BY MARY BALCER AND DENNIS MCCAULEY WITH THE CENTER FOR LAKE SUPERIOR ENVIRONMENTAL STUDIES; UNIVERSITY OF WISCONSIN-SUPERIOR (MARC 1989). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAU MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0161

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/08/87-09/04/87	19 ##	0.5	18.579	320.	0.5	5335.007	73.041	0.5	0.5	2.	12.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/08/87-09/04/87	19 ##	-0.301	0.15	2.505	-0.301	0.493	0.702	-0.301	-0.301	0.301	1.079
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.414								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/08/87-09/04/87	19	44.	166.316	1245.	12.	83572.45	289.089	17.	23.	212.	395.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/08/87-09/04/87	19	1.643	1.827	3.095	1.079	0.32	0.566	1.23	1.362	2.326	2.597
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			67.086								

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

EPA Water Quality Criteria Analysis for Station: APIS0161

				Total	Exceed	Prop.	----------7/15-11/30----------			----------12/01-2/29----------			----------3/01-4/14----------			----------4/15-7/14----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	19	1	0.05	12	0	0.00							7	1	0.14

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

Station Inventory for Station: APIS0162

NPS Station ID: APIS0162 LAT/LON: 46.695226/ -90.796171 Agency: 11NPSWRD Date Created: 03/28/98
Location: LAKE SUPERIOR 2 MILES SOUTH OF LONG ISLAND FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): APIS_LONG_IS
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE LONG ISLAND WISCONSIN 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON LAKE SUPERIOR APPROXIMATELY 2 MILES SOUTH OF LONG ISLAND. SAMPLES FOR THIS SITE WERE COLLECTED MONTHLY OVER THE SUMMER OF 1996. SAMPLES WERE ANALYZED FOR PHYSICAL PARAMETERS AND NUTRIENT CONCENTRATIONS. THE RESULTS ARE IN "LAKE SUPERIOR FOOD WEB - APOSTLE ISLANDS ONRW" BY LAKE SUPERIOR ECOSYSTEM RESEARCH CENTER; MICHIGAN TECHNOLOGY UNIVERSITY (JUNE 1997). THE DATA WERE RECEIVED IN DIGITAL FORMAT FROM NATURAL RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE. LAT/LONG COORDINATES ARE THE CENTROID OF THREE LORAN READINGS (1 FOR EACH MONTH SAMPLED). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0162

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/11/96-08/21/96	29	13.	12.103	19.	0.	45.953	6.779	0.	7.	18.	19.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/11/96-08/21/96	20	17.3	16.28	20.4	8.4	15.341	3.917	9.21	12.125	19.8	20.4
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	06/11/96-08/21/96	20	65.1	65.285	70.	60.	17.023	4.126	60.	60.	70.	70.
00078	TRANSPARENCY, SECCHI DISC (METERS)	06/11/96-08/21/96	3	4.34	3.987	4.57	3.05	0.671	0.819	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/11/96-08/21/96	20	100.	99.8	105.	93.	20.484	4.526	94.	94.	104.75	105.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/11/96-08/21/96	20	9.6	9.965	12.4	9.1	0.92	0.959	9.11	9.325	10.775	11.88
00406	PH, FIELD, STANDARD UNITS SU	06/11/96-08/21/96	20	7.865	7.838	8.11	7.49	0.035	0.186	7.571	7.64	7.98	8.07
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/11/96-08/21/96	20	7.865	7.798	8.11	7.49	0.036	0.191	7.571	7.64	7.98	8.07
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/11/96-08/21/96	20	0.014	0.016	0.032	0.008	0.	0.007	0.009	0.01	0.023	0.027
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/11/96-08/21/96	9	0.3	0.267	0.3	0.2	0.003	0.05	0.2	0.2	0.3	0.3
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/11/96-08/21/96	9 ##	0.005	0.006	0.01	0.005	0.	0.002	0.005	0.005	0.005	0.01
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/11/96-08/21/96	9	1.9	2.067	3.8	1.2	0.783	0.885	1.2	1.2	2.6	3.8
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/11/96-08/21/96	3	0.5	0.5	0.7	0.3	0.04	0.2	**	**	**	**
46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/11/96-08/21/96	20	321.5	318.4	343.	297.	230.779	15.191	297.1	301.	331.75	336.8
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/11/96-08/21/96	20	64.	63.8	70.	59.	10.168	3.189	59.1	60.	66.75	67.
70971	LIGHT, ATTENUATION COEFFICIENT (ALPHA/M)	06/11/96-08/21/96	2	0.563	0.563	0.564	0.563	0.	0.001	**	**	**	**
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	06/11/96-08/21/96	9 ##	0.005	0.031	0.18	0.005	0.003	0.057	0.005	0.005	0.035	0.18
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/11/96-08/21/96	20	9.5	11.04	24.7	4.3	42.51	6.52	4.51	6.175	12.95	23.8
82127	WIND SPEED KNOTS	06/11/96-08/21/96	20	3.	2.8	5.	0.	4.274	2.067	0.	0.	5.	5.

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

EPA Water Quality Criteria Analysis for Station: APIS0162

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	20	0	0.00	7	0	0.00							13	0	0.00
00406	PH, FIELD	Fresh Chronic	9.	20	0	0.00	7	0	0.00							13	0	0.00
		Other-Lo Lim.	6.5	20	0	0.00	7	0	0.00							13	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	9	0	0.00	3	0	0.00							6	0	0.00
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	20	0	0.00	7	0	0.00							13	0	0.00

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

Station Inventory for Station: APIS0163

NPS Station ID: APIS0163
LAT/LON: 46.676642/ -90.803671
Agency: 21WITIS
Date Created: 10/22/88
Location: LAKE SUPERIOR 15 GRID 1509
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE/TISSUE
STORET Station ID(s): 025020 /8280MA025020
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 55
Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
STATION FOR LEE LIEBENSTEIN OF BUR WATER RES MGT (608)266-0164 FISH TOXICS MONITORING
LEE LIEBENSTEIN (608) 266-0164 BUREAU WATER RES MAN

Parameter Inventory for Station: APIS0163

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/22/78-09/14/88	33	611.	647.152	1913.	61.	200901.508	448.22	183.6	496.	621.5	1543.
00023p	SAMPLE WEIGHT IN POUNDS	08/21/79-09/14/88	24	2.16	3.823	33.07	0.15	41.614	6.451	0.34	1.55	3.723	6.22
00024p	SAMPLE LENGTH IN INCHES	08/22/78-09/14/88	33	18.5	18.595	52.	1.7	66.105	8.13	8.864	15.15	21.3	25.68
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	08/21/79-08/21/84	14 ##	0.25	0.571	1.	0.25	0.148	0.385	0.25	0.25	1.	1.
34670	PCB - 1260 WET WGTTISMG/KG	09/14/88-09/14/88	1	0.21	0.21	0.21	0.21	0.	0.	**	**	**	**
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	08/22/78-08/21/84	17 ##	0.01	0.009	0.01	0.005	0.	0.002	0.005	0.01	0.01	0.01
34691	TOXAPHENE WET WGTTISMG/KG	08/18/86-08/18/86	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	08/22/78-08/21/84	15 ##	0.025	0.024	0.07	0.01	0.	0.014	0.01	0.01	0.025	0.043
39063p	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	08/22/78-09/14/88	24 ##	0.025	0.026	0.05	0.01	0.	0.008	0.023	0.025	0.025	0.038
39066p	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	08/22/78-09/14/88	24 ##	0.025	0.023	0.025	0.005	0.	0.006	0.008	0.025	0.025	0.025
39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	08/21/79-08/21/84	14 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	08/21/79-08/21/84	13 ##	0.025	0.028	0.06	0.025	0.	0.01	0.025	0.025	0.025	0.046
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	08/22/78-08/21/84	16 ##	0.005	0.011	0.03	0.005	0.	0.009	0.005	0.005	0.018	0.03
39075	BHC- GAMMA ISOMER, TISSUE WET WGT (UG/G)	08/22/78-08/21/84	17 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39302p	P P DDT IN TISSUE WET WGT (UG/G)	08/21/79-09/12/88	20 ##	0.025	0.027	0.06	0.025	0.	0.008	0.025	0.025	0.025	0.025
39307p	O P DDT IN TISSUE WET WGT (UG/G)	08/21/79-09/12/88	20 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
39312p	P P DDD IN TISSUE WET WGT (UG/G)	08/21/79-09/12/88	20 ##	0.025	0.027	0.06	0.025	0.	0.008	0.025	0.025	0.025	0.025
39322p	P,P'-DDE IN TISSUE WET WGT MG/KG	08/22/78-09/12/88	23	0.09	0.117	0.32	0.025	0.01	0.101	0.025	0.025	0.16	0.3
39325p	O,P DDD IN TISSUE WET WGT (UG/G)	08/21/79-09/12/88	20 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
39329p	O,P DDE IN TISSUE, WET WGT(UG/G)	08/21/79-09/12/88	20 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
39397	ENDRIN IN SHELLFISH OR ANIMAL (UG/KG WET WEIGHT)	08/22/78-08/21/84	17 ##	0.01	0.009	0.01	0.005	0.	0.002	0.005	0.01	0.01	0.01
39404p	DIELDRIN IN TISSUE WET WGT (UG/G)	08/22/78-09/14/88	24 ##	0.01	0.017	0.08	0.005	0.	0.017	0.008	0.01	0.02	0.045
39407	TOXAPHENE IN FISH OR ANIMAL(UG/KG WET WEIGHT)	08/05/88-09/14/88	7 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39515p	PCBS (MG/KG) FISH TISSUE MG/KG	08/22/78-09/12/88	29 ##	0.15	0.266	0.8	0.1	0.051	0.226	0.1	0.1	0.435	0.7
39703	HEXACHLOROBENZENE IN FISH OR ANIMALS WET WGT UG/K	08/22/78-08/21/84	17 ##	0.005	0.006	0.01	0.005	0.	0.002	0.005	0.005	0.005	0.01
71930p	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	08/22/78-08/18/86	22	0.11	0.16	0.48	0.03	0.013	0.116	0.053	0.078	0.24	0.344
71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	09/10/87-09/14/88	10	0.1	0.171	0.4	0.07	0.015	0.121	0.071	0.08	0.3	0.39
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/21/79-08/21/84	14 ##	2.5	2.5	2.5	2.5	0.	0.	2.5	2.5	2.5	2.5
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/21/79-08/21/84	14	1.55	1.571	3.4	0.9	0.479	0.692	0.9	0.975	1.85	2.85
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	08/21/79-08/21/84	14 ##	0.25	0.25	0.25	0.25	0.	0.	0.25	0.25	0.25	0.25
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	08/21/79-08/21/84	14 ##	0.1	0.1	0.1	0.1	0.	0.	0.1	0.1	0.1	0.1
78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	08/05/88-09/14/88	7 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	08/05/88-09/14/88	7 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: APIS0163

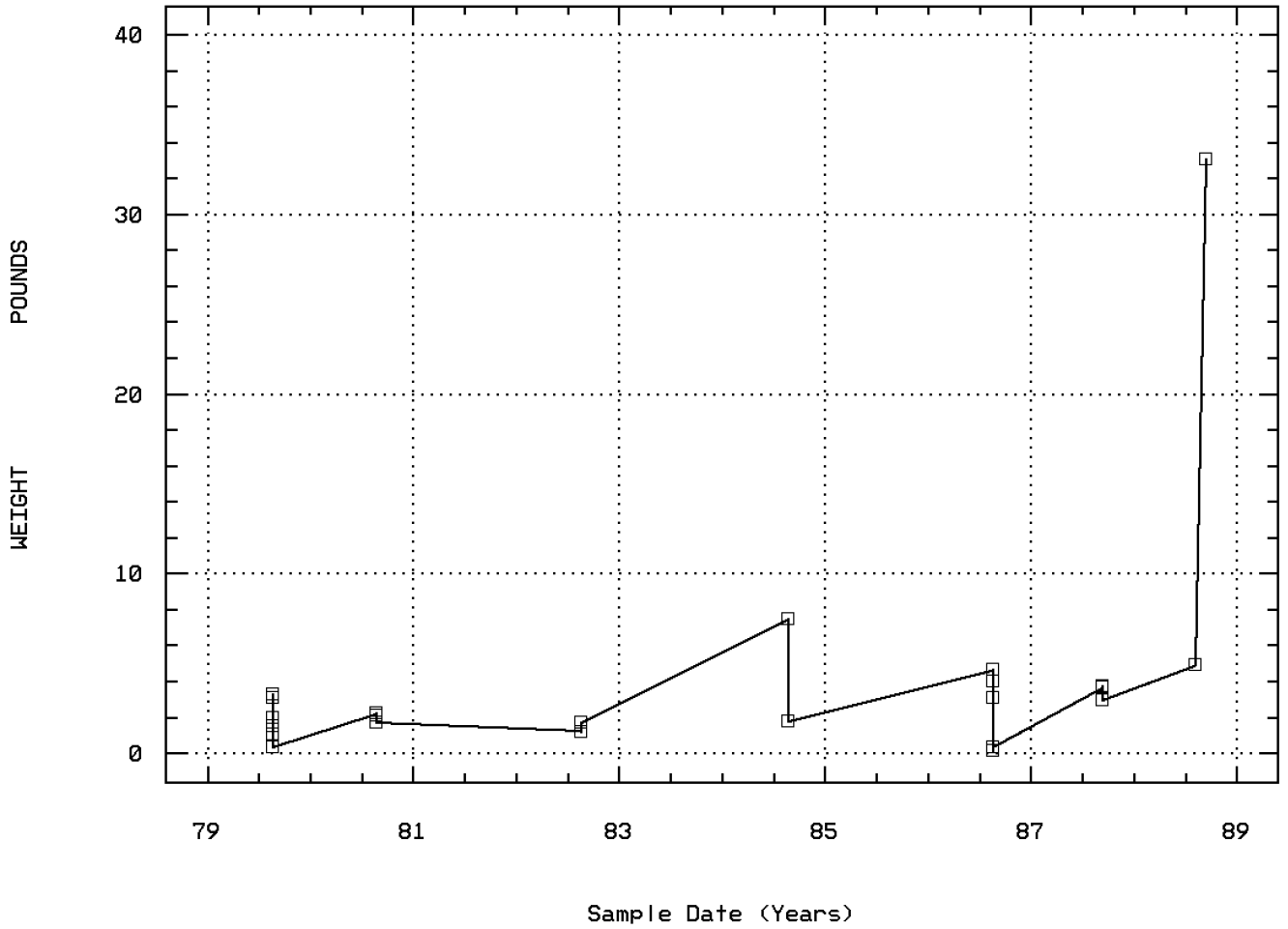
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
78926p	FAT, PERCENT, IN TISSUE, WET WEIGHT %	08/22/78-09/14/88	30	4.15	5.56	20.1	0.5	23.434	4.841	0.92	3.075	6.525	13.53
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	09/10/87-09/14/88	10	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	08/22/78-08/21/84	17 ##	0.025	0.025	0.05	0.005	0.	0.008	0.021	0.025	0.025	0.03

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

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

Station: APIS0163 Parameter Code: 00023

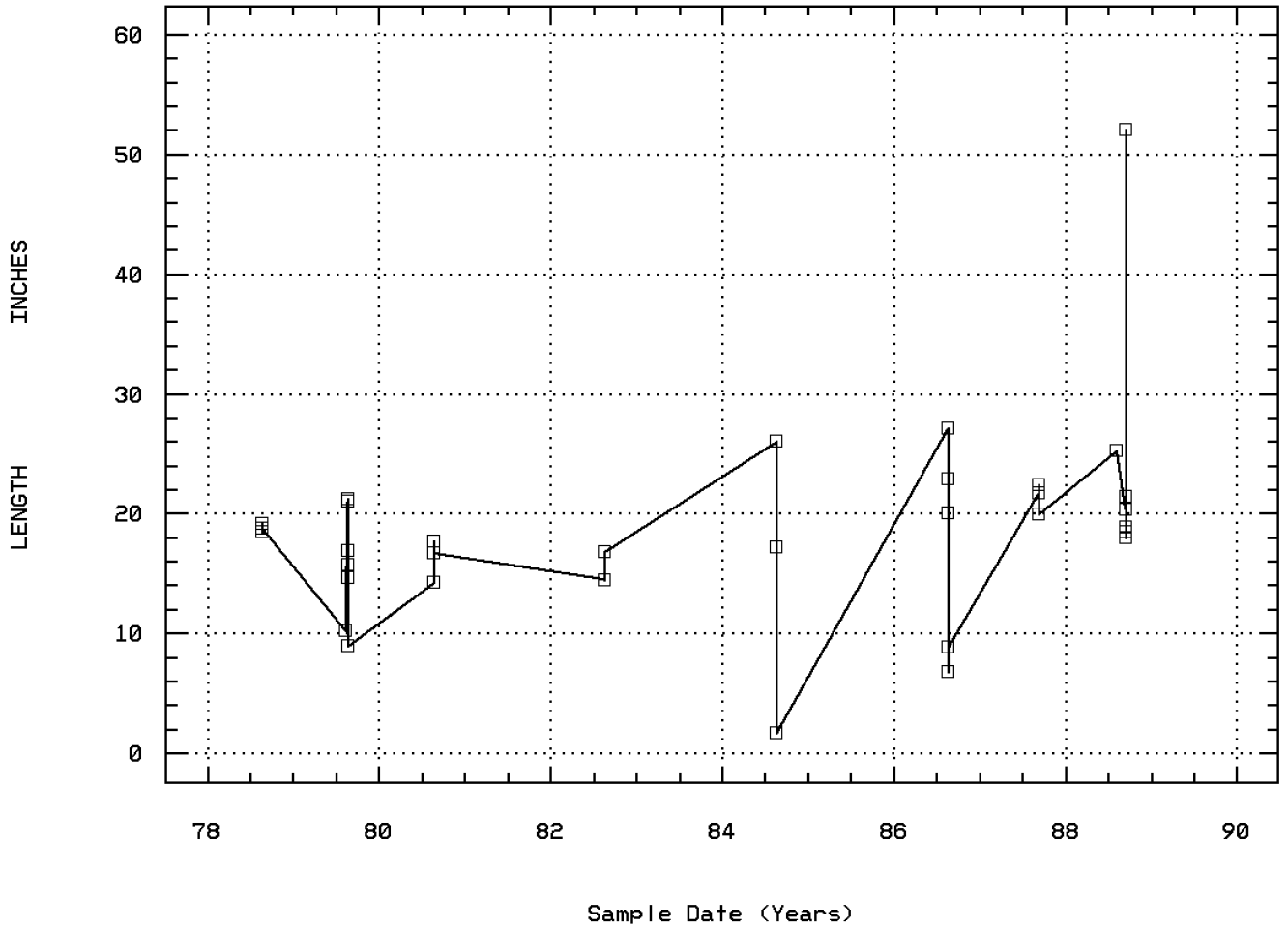
SAMPLE WEIGHT IN POUNDS



LAKE SUPERIOR 15 GRID 1509

Station: APIS0163 Parameter Code: 00024

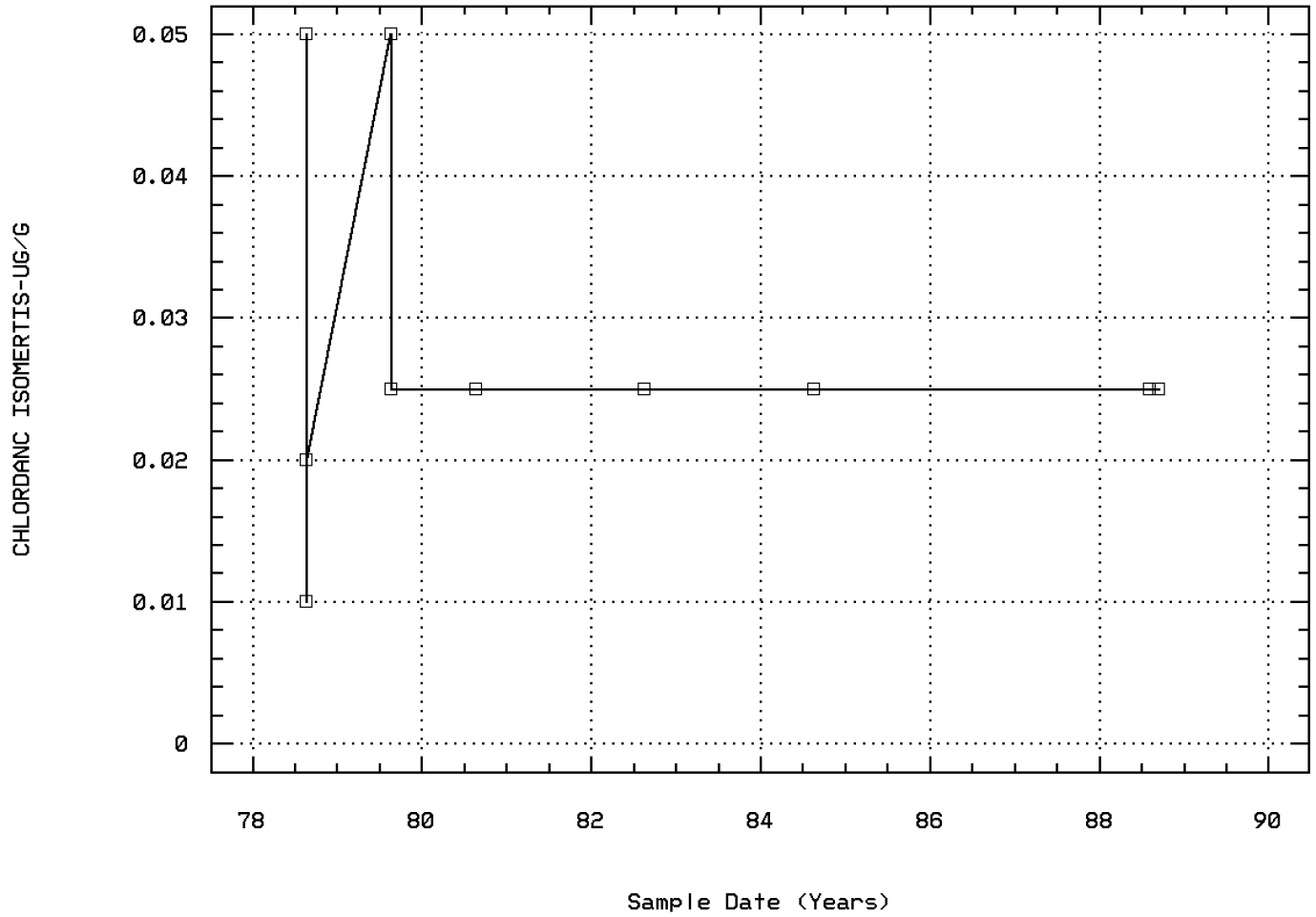
SAMPLE LENGTH IN INCHES



LAKE SUPERIOR 15 GRID 1509

Station: APIS0163 Parameter Code: 39063

CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG

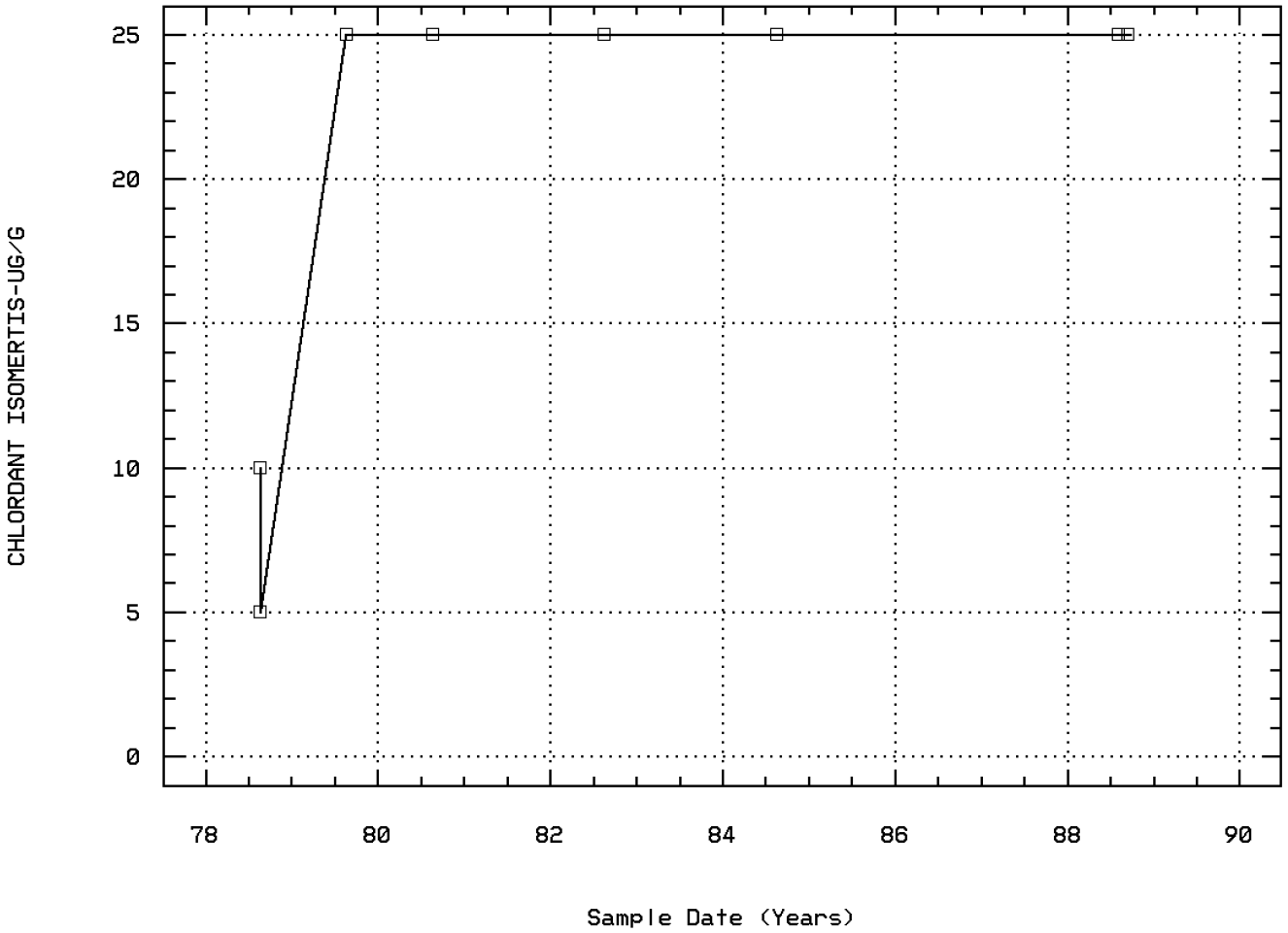


LAKE SUPERIOR 15 GRID 1509

Station: APIS0163 Parameter Code: 39066

CHLORDANE-TRANS ISOMER,TISSUE WET WGT (

(X 0.001)

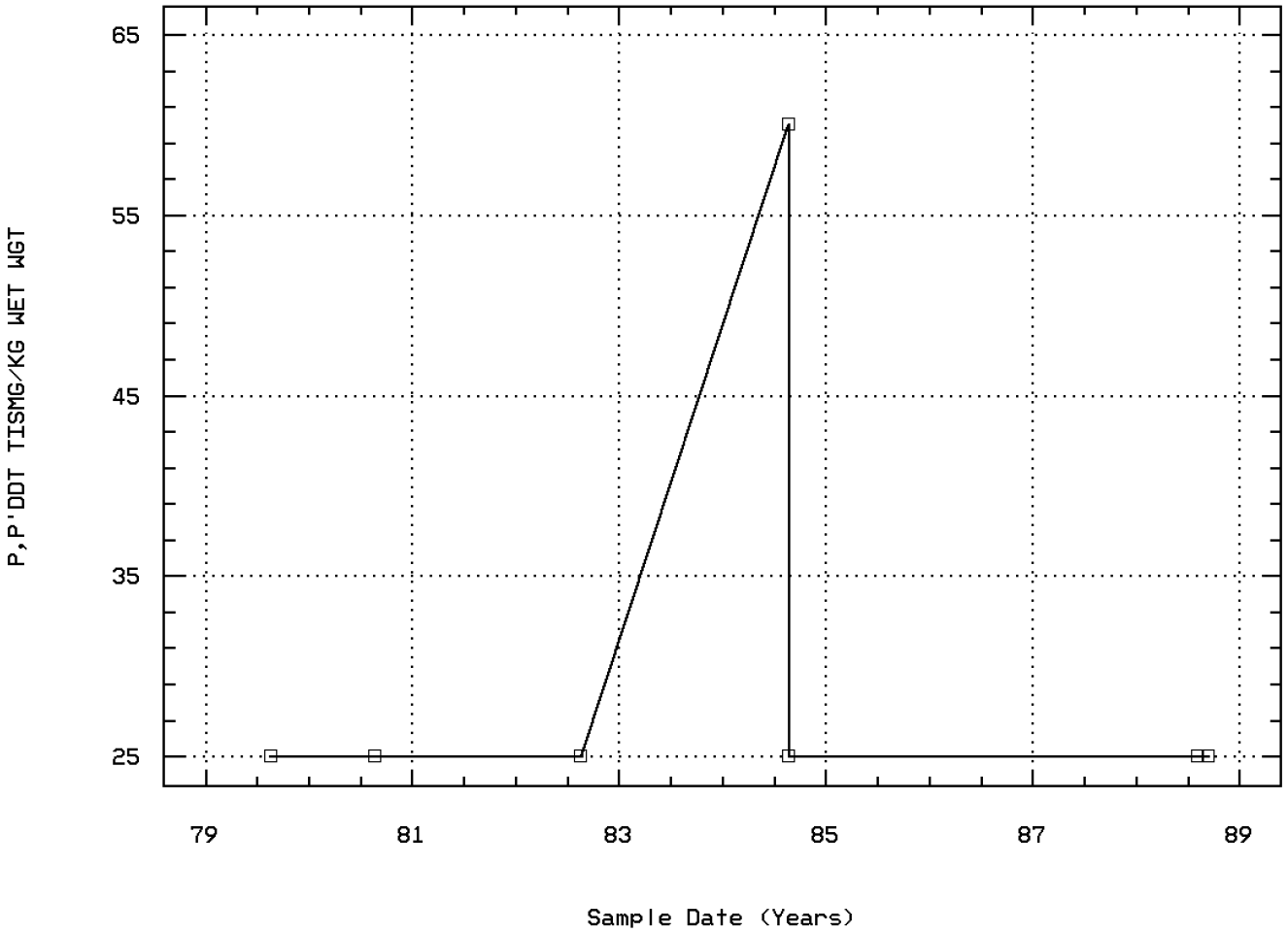


LAKE SUPERIOR 15 GRID 1509

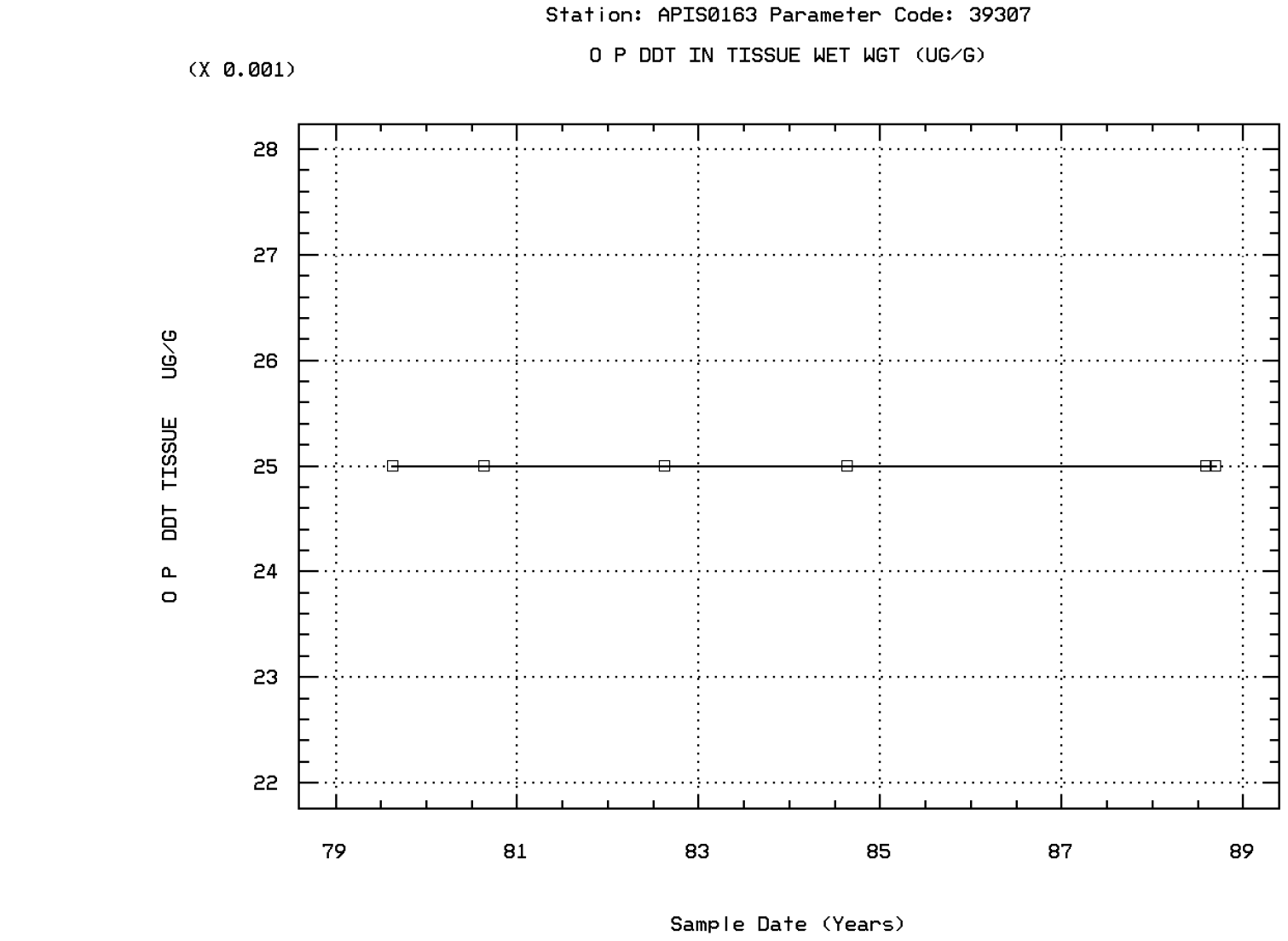
Station: APIS0163 Parameter Code: 39302

P P DDT IN TISSUE WET WGT (UG/G)

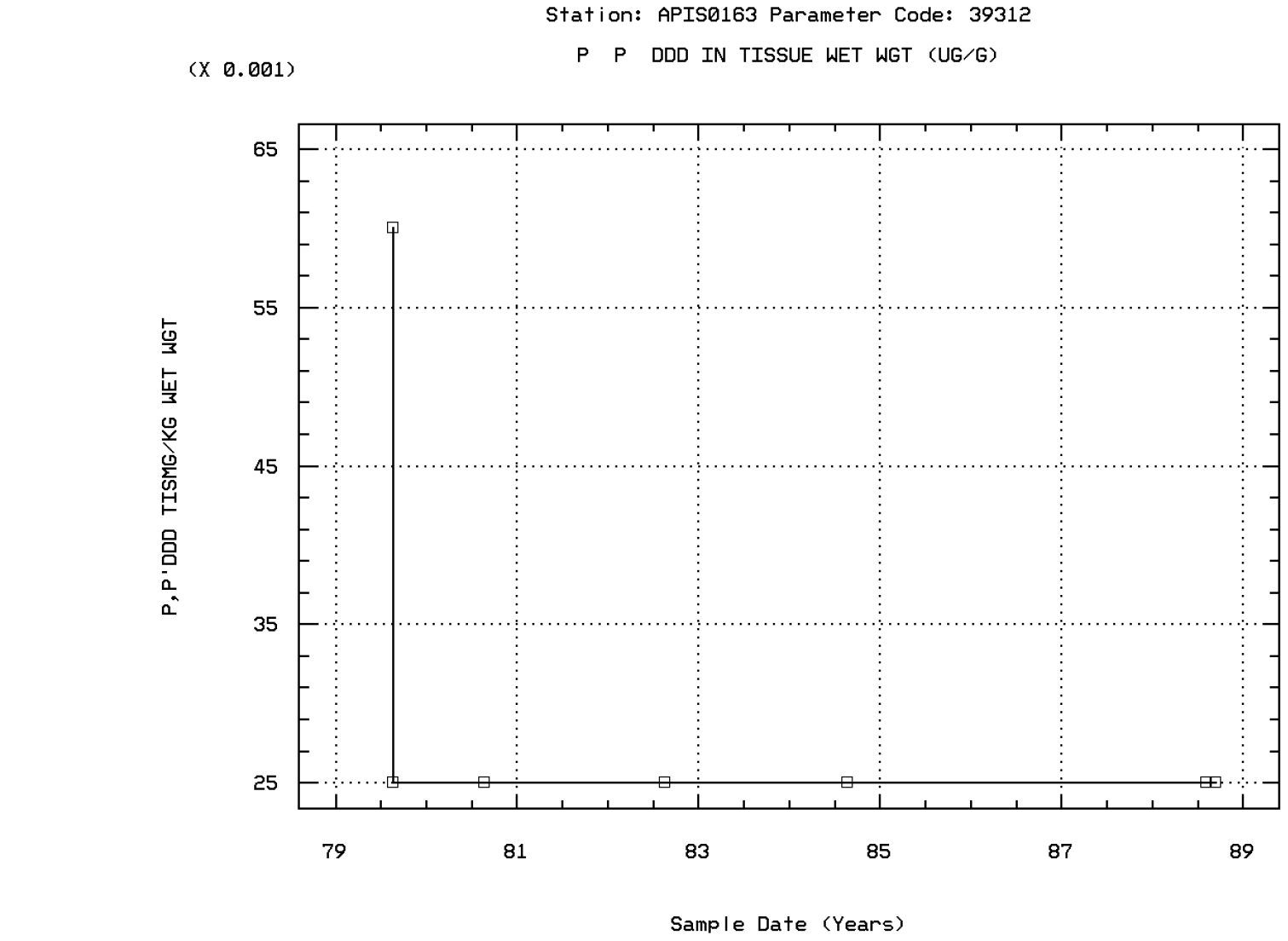
(X 0.001)



LAKE SUPERIOR 15 GRID 1509



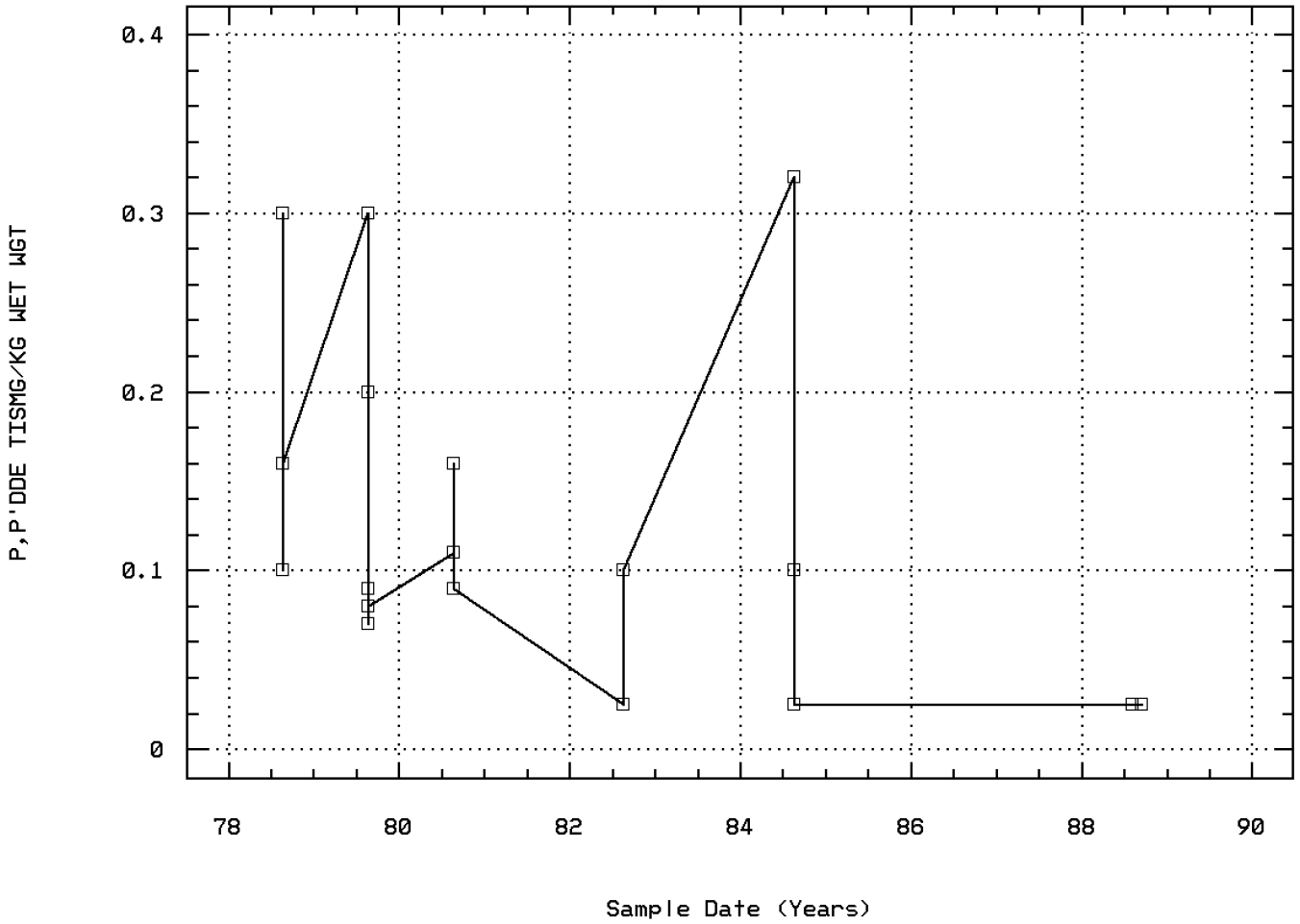
LAKE SUPERIOR 15 GRID 1509



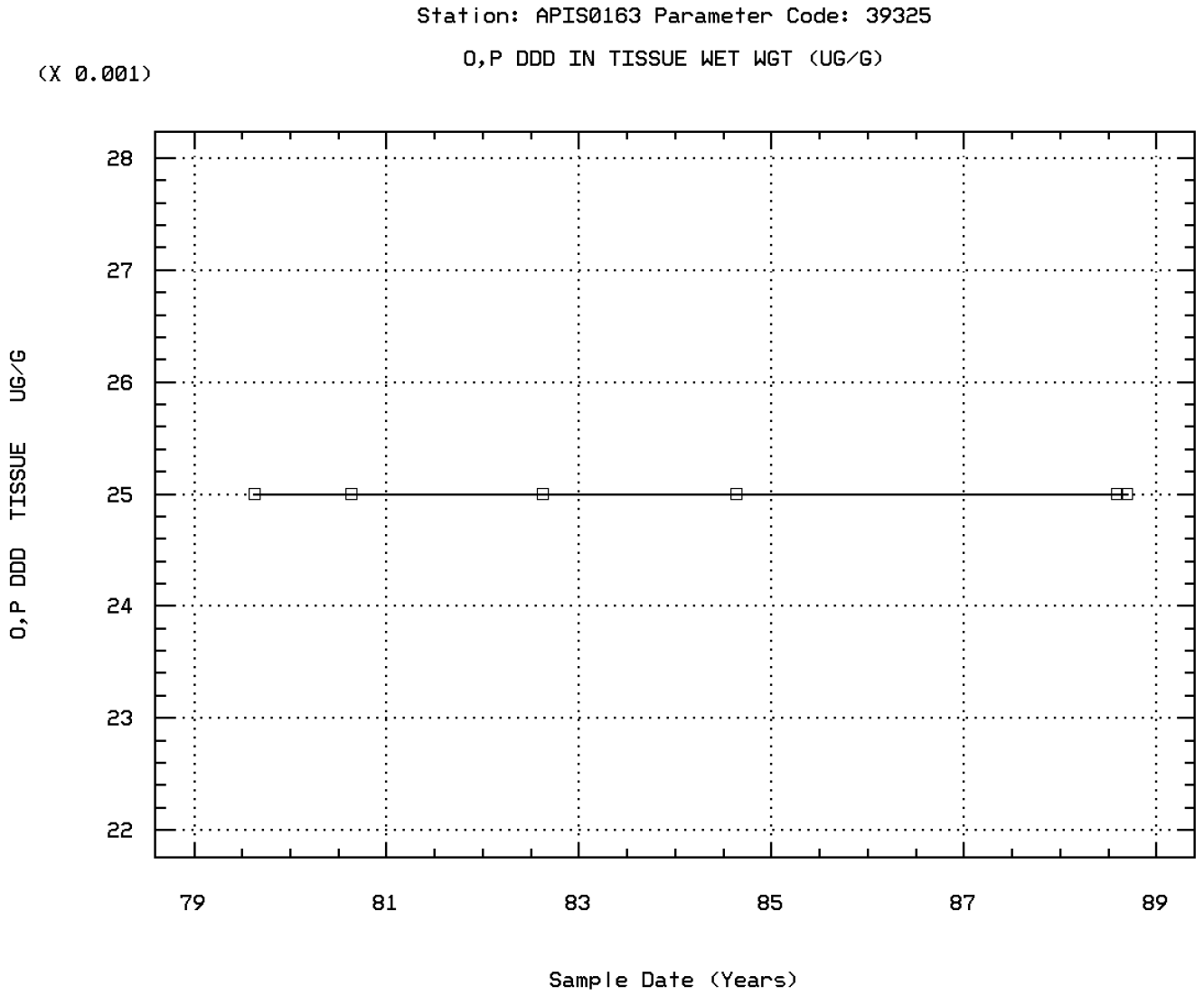
LAKE SUPERIOR 15 GRID 1509

Station: APIS0163 Parameter Code: 39322

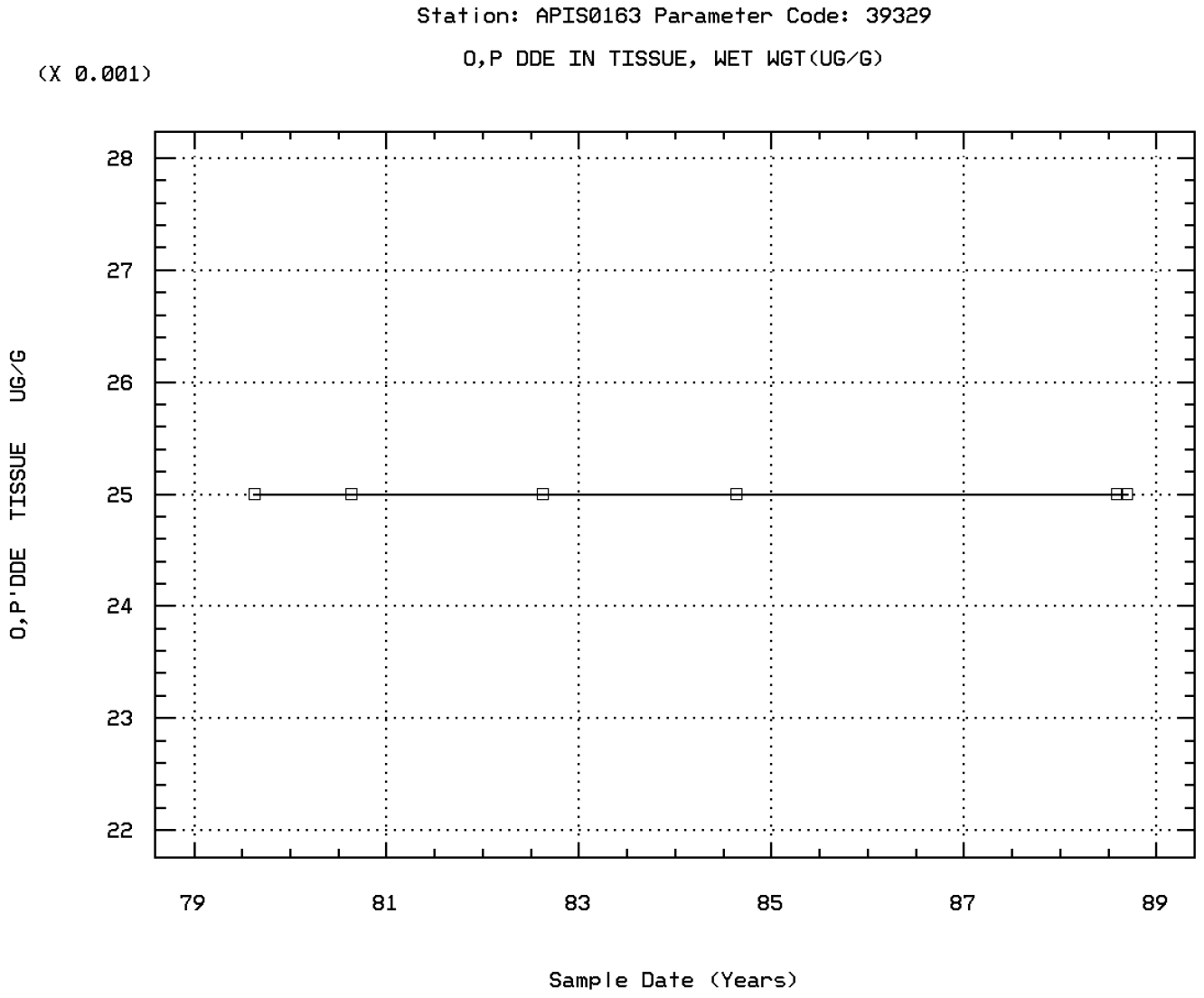
P,P'-DDE IN TISSUE WET WGT MG/KG



LAKE SUPERIOR 15 GRID 1509



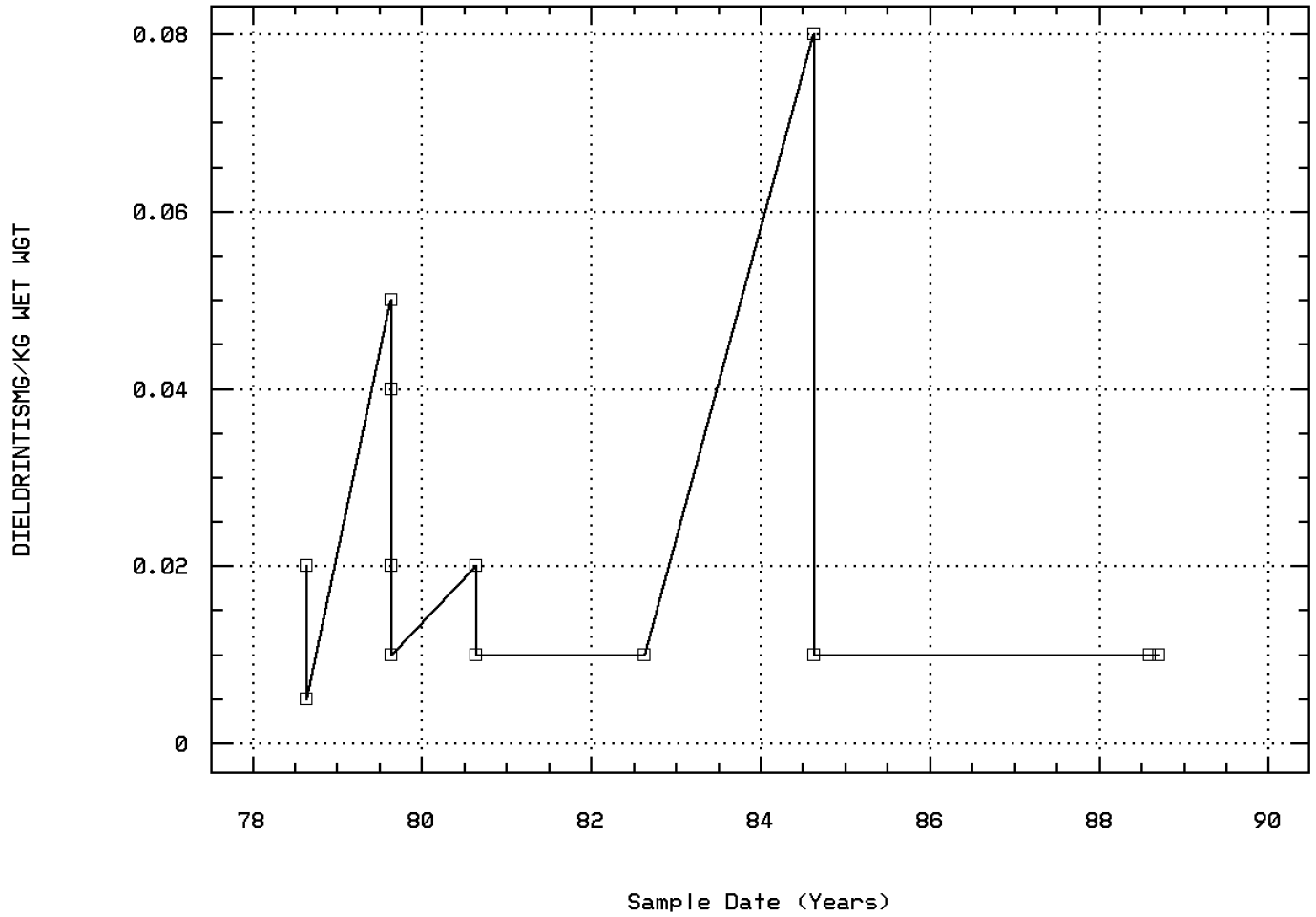
LAKE SUPERIOR 15 GRID 1509



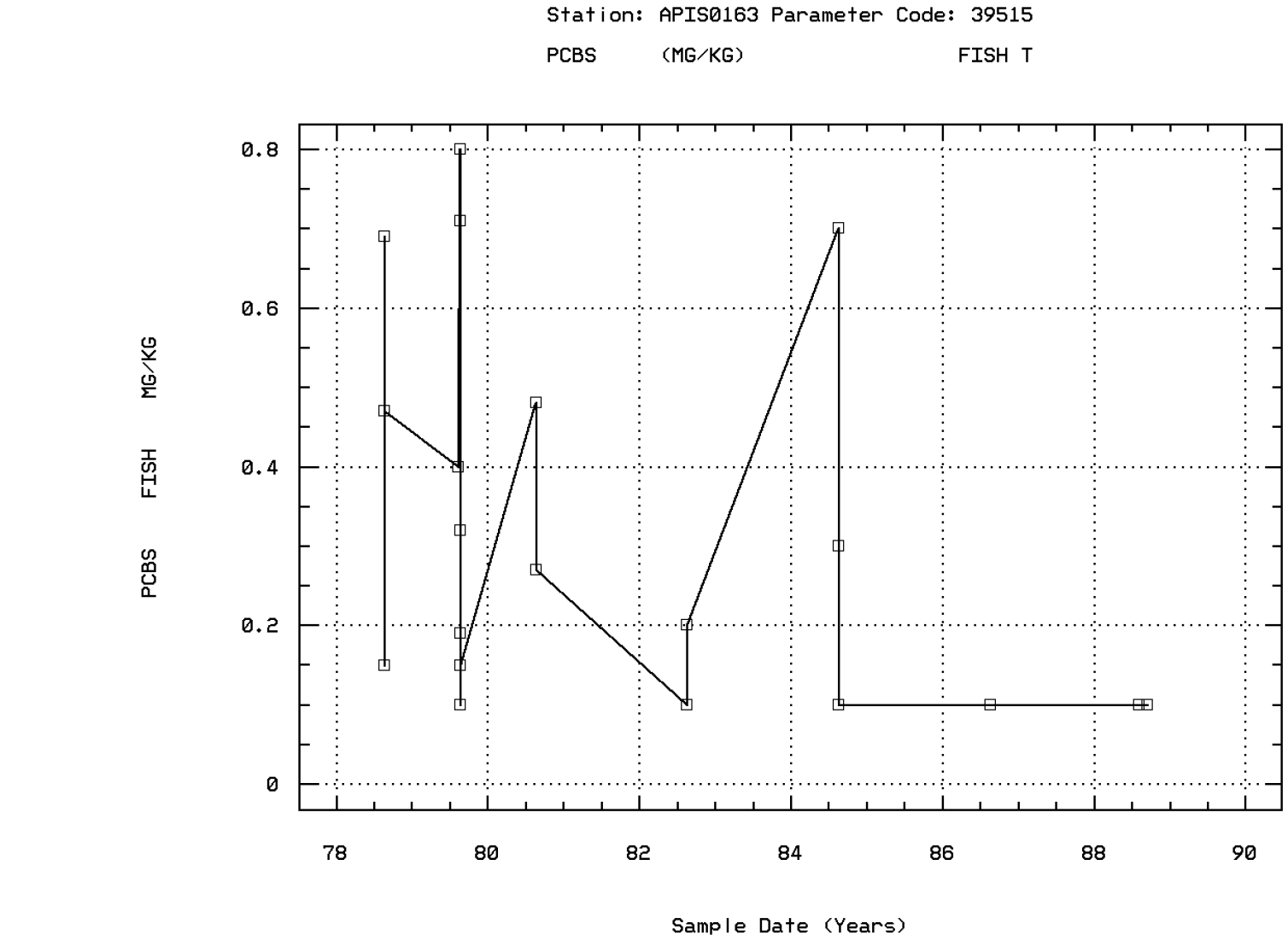
LAKE SUPERIOR 15 GRID 1509

Station: APIS0163 Parameter Code: 39404

DIELDRIN IN TISSUE WET WGT (UG/G)



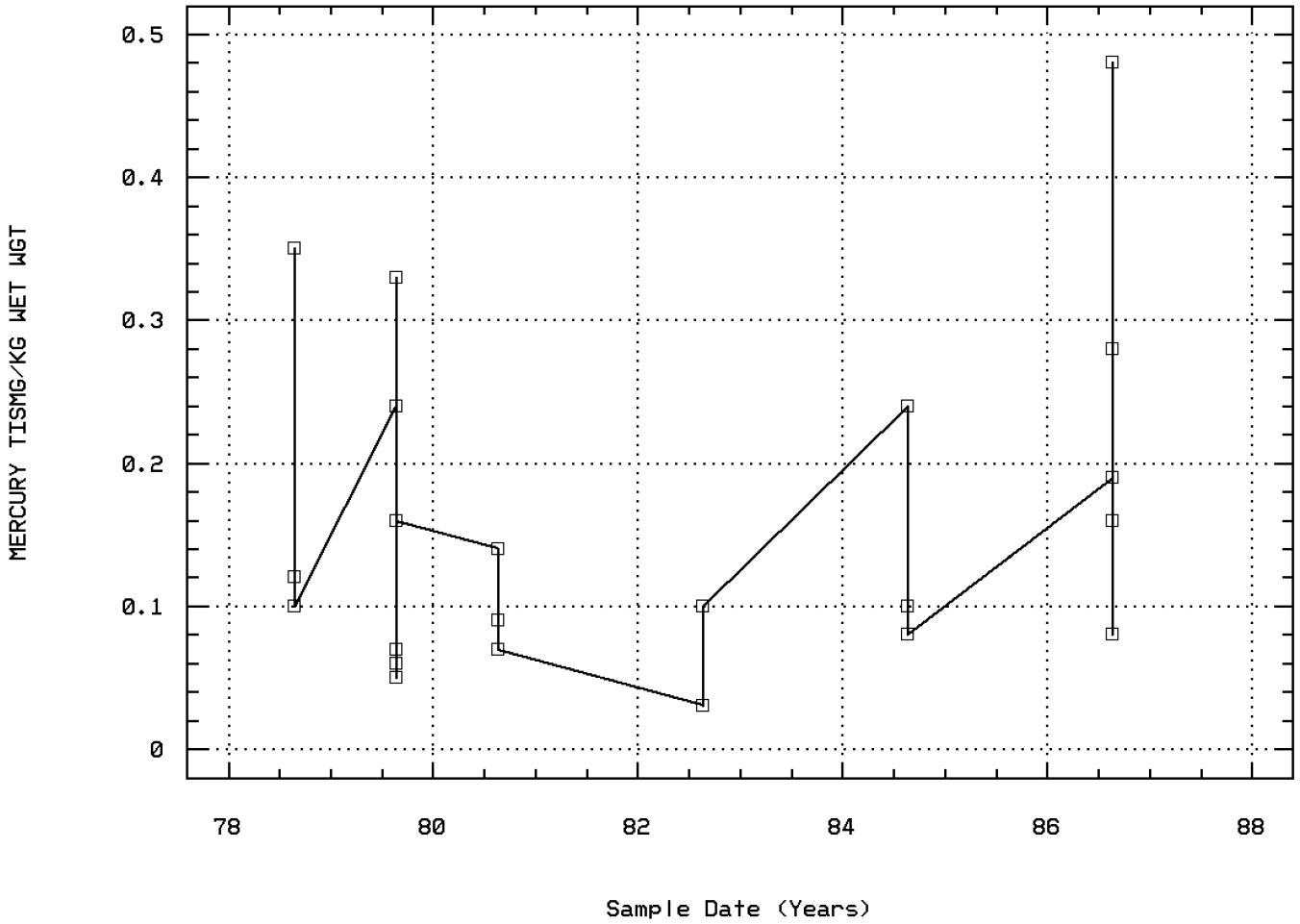
LAKE SUPERIOR 15 GRID 1509



LAKE SUPERIOR 15 GRID 1509

Station: APIS0163 Parameter Code: 71930

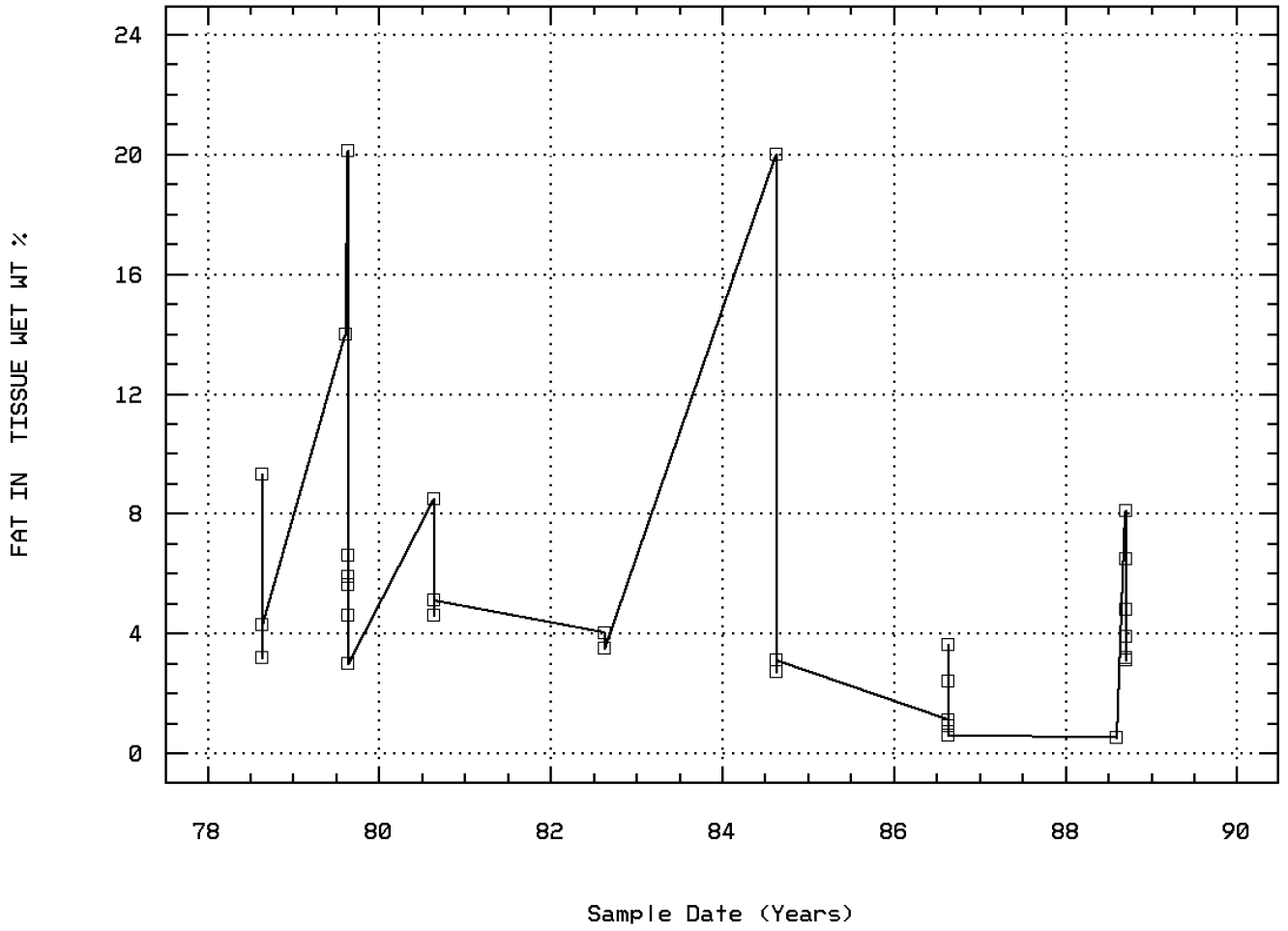
MERCURY,TOTAL IN FISH OR ANIMAL-WET WEI



LAKE SUPERIOR 15 GRID 1509

Station: APIS0163 Parameter Code: 78926

FAT, PERCENT, IN TISSUE, WET WEIGHT



LAKE SUPERIOR 15 GRID 1509

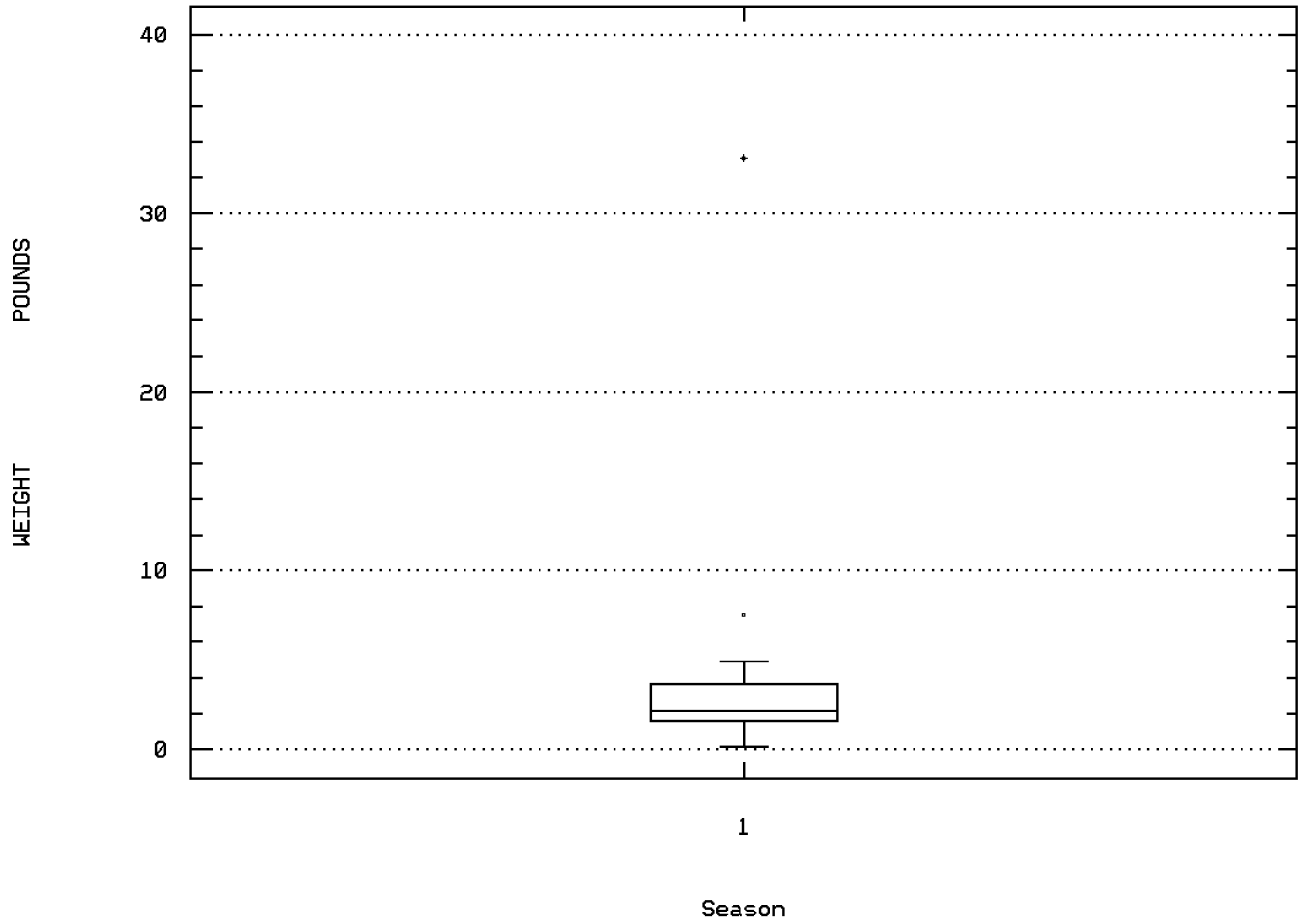
Seasonal Analysis for Season #1: 7/15 to 11/30 - Station APIS0163

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/22/78-09/14/88	33	611.	647.152	1913.	61.	200901.508	448.22	183.6	496.	621.5	1543.
00023p	SAMPLE WEIGHT IN POUNDS	08/21/79-09/14/88	24	2.16	3.823	33.07	0.15	41.614	6.451	0.34	1.55	3.723	6.22
00024p	SAMPLE LENGTH IN INCHES	08/22/78-09/14/88	33	18.5	18.595	52.	1.7	66.105	8.13	8.864	15.15	21.3	25.68
39063p	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	08/22/78-09/14/88	24 ##	0.025	0.026	0.05	0.01	0.	0.008	0.023	0.025	0.025	0.038
39066p	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	08/22/78-09/14/88	24 ##	0.025	0.023	0.025	0.005	0.	0.006	0.008	0.025	0.025	0.025
39302p	P P DDT IN TISSUE WET WGT (UG/G)	08/21/79-09/12/88	20 ##	0.025	0.027	0.06	0.025	0.	0.008	0.025	0.025	0.025	0.025
39307p	O P DDT IN TISSUE WET WGT (UG/G)	08/21/79-09/12/88	20 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
39312p	P P DDD IN TISSUE WET WGT (UG/G)	08/21/79-09/12/88	20 ##	0.025	0.027	0.06	0.025	0.	0.008	0.025	0.025	0.025	0.025
39322p	P,P'-DDE IN TISSUE WET WGT MG/KG	08/22/78-09/12/88	23	0.09	0.117	0.32	0.025	0.01	0.101	0.025	0.025	0.16	0.3
39325p	O,P DDD IN TISSUE WET WGT (UG/G)	08/21/79-09/12/88	20 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
39329p	O,P DDE IN TISSUE, WET WGT(UG/G)	08/21/79-09/12/88	20 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
39404p	DIELDRIN IN TISSUE WET WGT (UG/G)	08/22/78-09/14/88	24 ##	0.01	0.017	0.08	0.005	0.	0.017	0.008	0.01	0.02	0.045
39515p	PCBS (MG/KG) FISH TISSUE MG/KG	08/22/78-09/12/88	29 ##	0.15	0.266	0.8	0.1	0.051	0.226	0.1	0.1	0.435	0.7
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	08/22/78-08/18/86	22	0.11	0.16	0.48	0.03	0.013	0.116	0.053	0.078	0.24	0.344
78926p	FAT, PERCENT, IN TISSUE, WET WEIGHT %	08/22/78-09/14/88	30	4.15	5.56	20.1	0.5	23.434	4.841	0.92	3.075	6.525	13.53

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

Station: APIS0163 Parameter Code: 00023

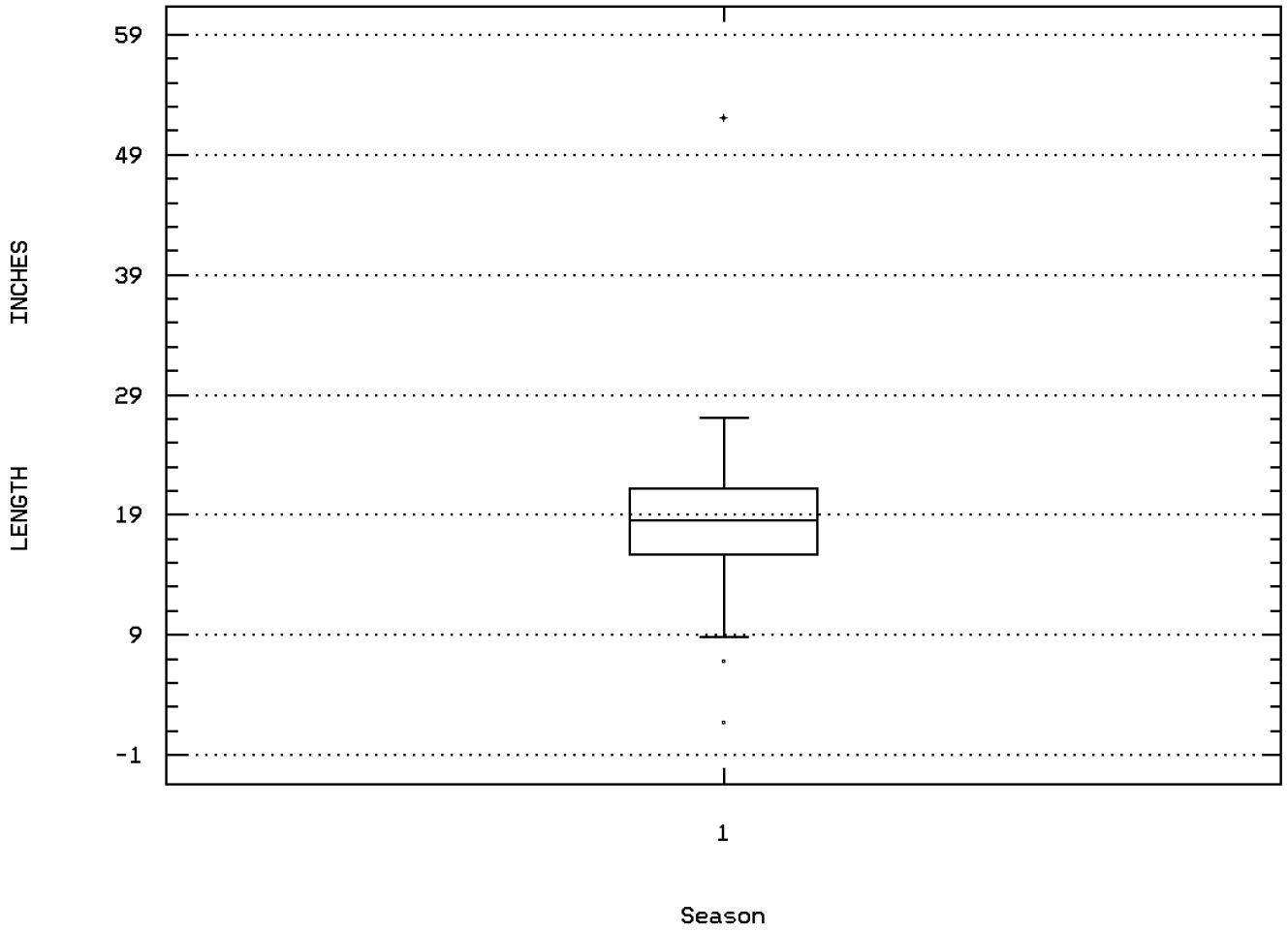
SAMPLE WEIGHT IN POUNDS



LAKE SUPERIOR 15 GRID 1509

Station: APIS0163 Parameter Code: 00024

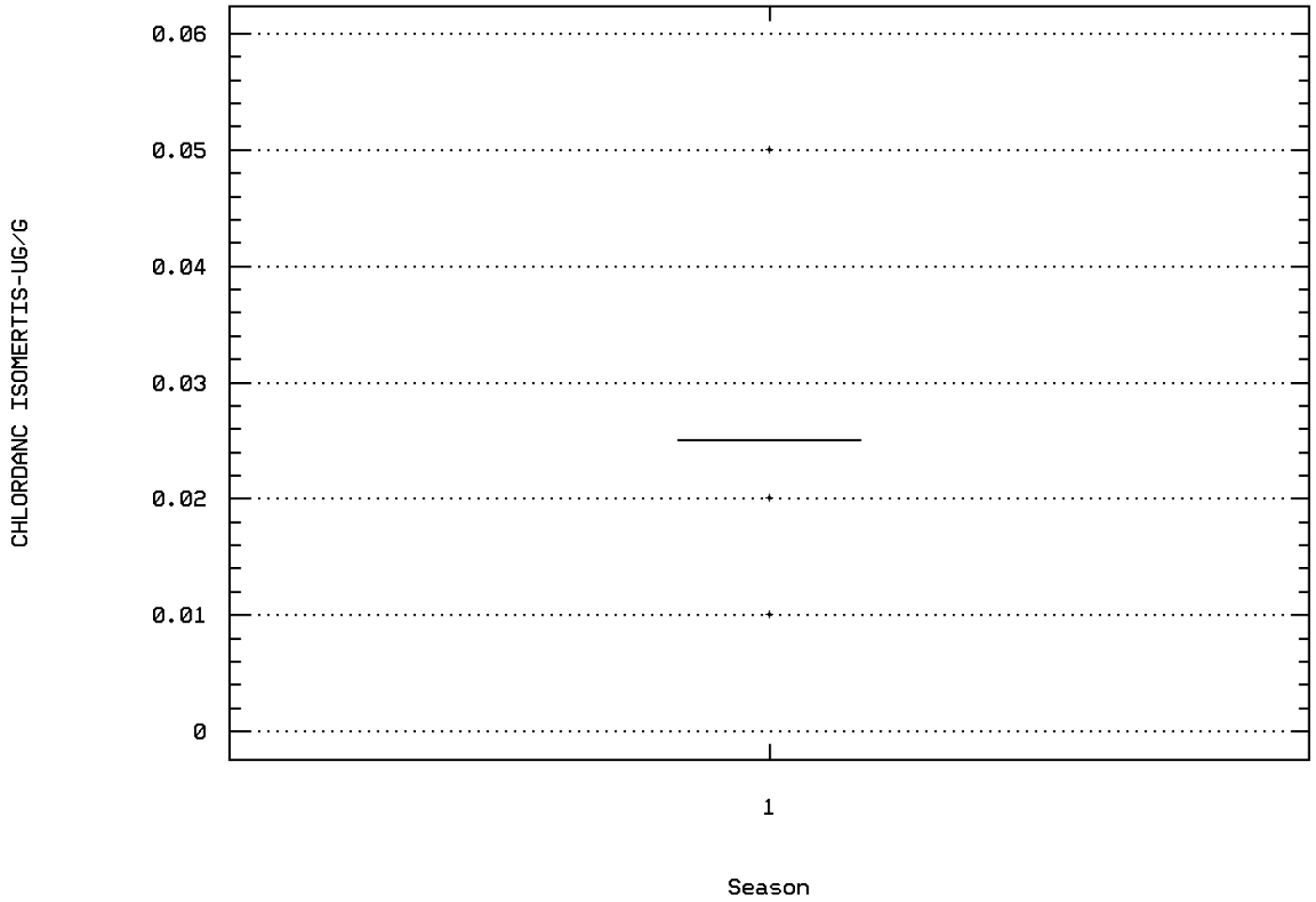
SAMPLE LENGTH IN INCHES



LAKE SUPERIOR 15 GRID 1509

Station: APIS0163 Parameter Code: 39063

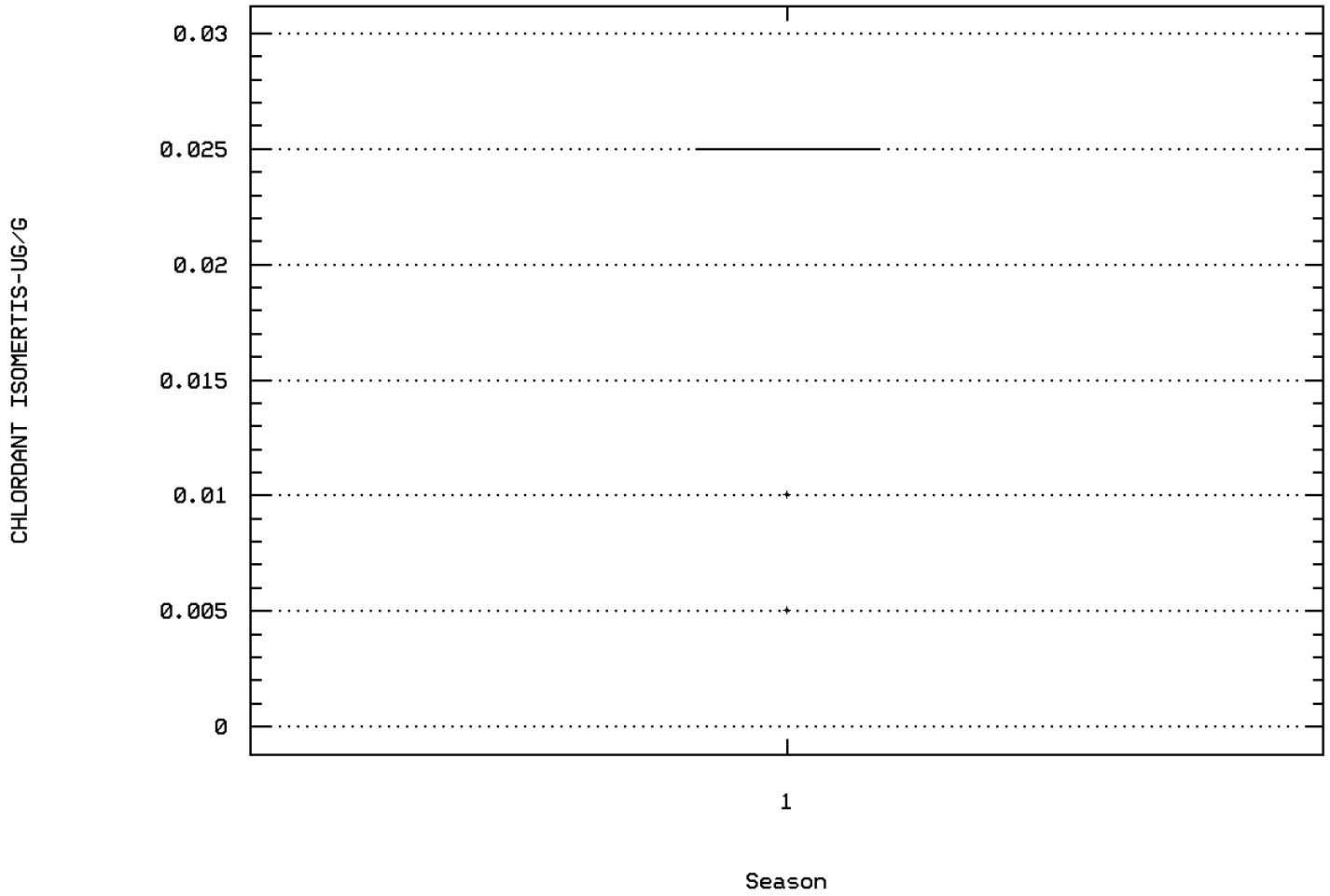
CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG



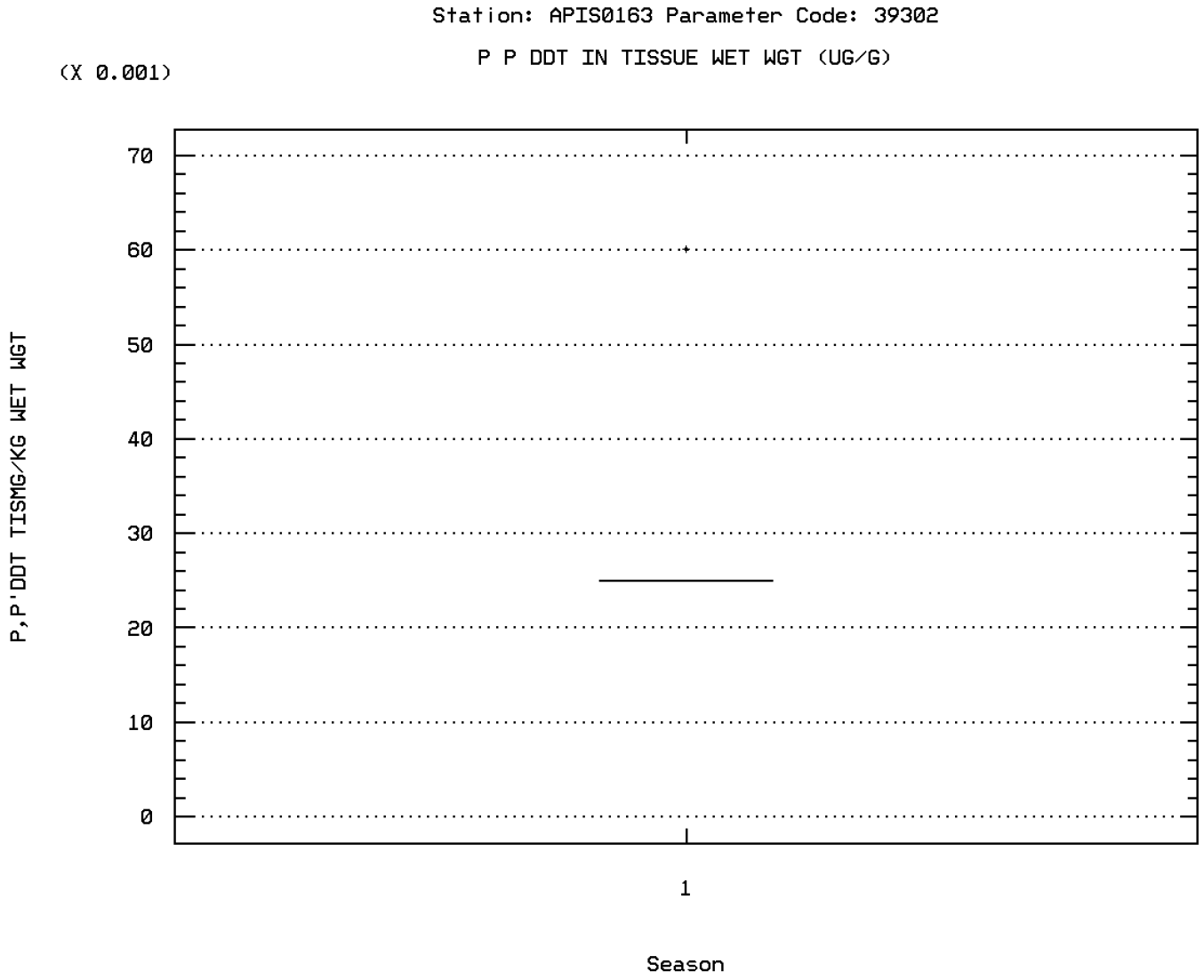
LAKE SUPERIOR 15 GRID 1509

Station: APIS0163 Parameter Code: 39066

CHLORDANE-TRANS ISOMER,TISSUE WET WGT (



LAKE SUPERIOR 15 GRID 1509

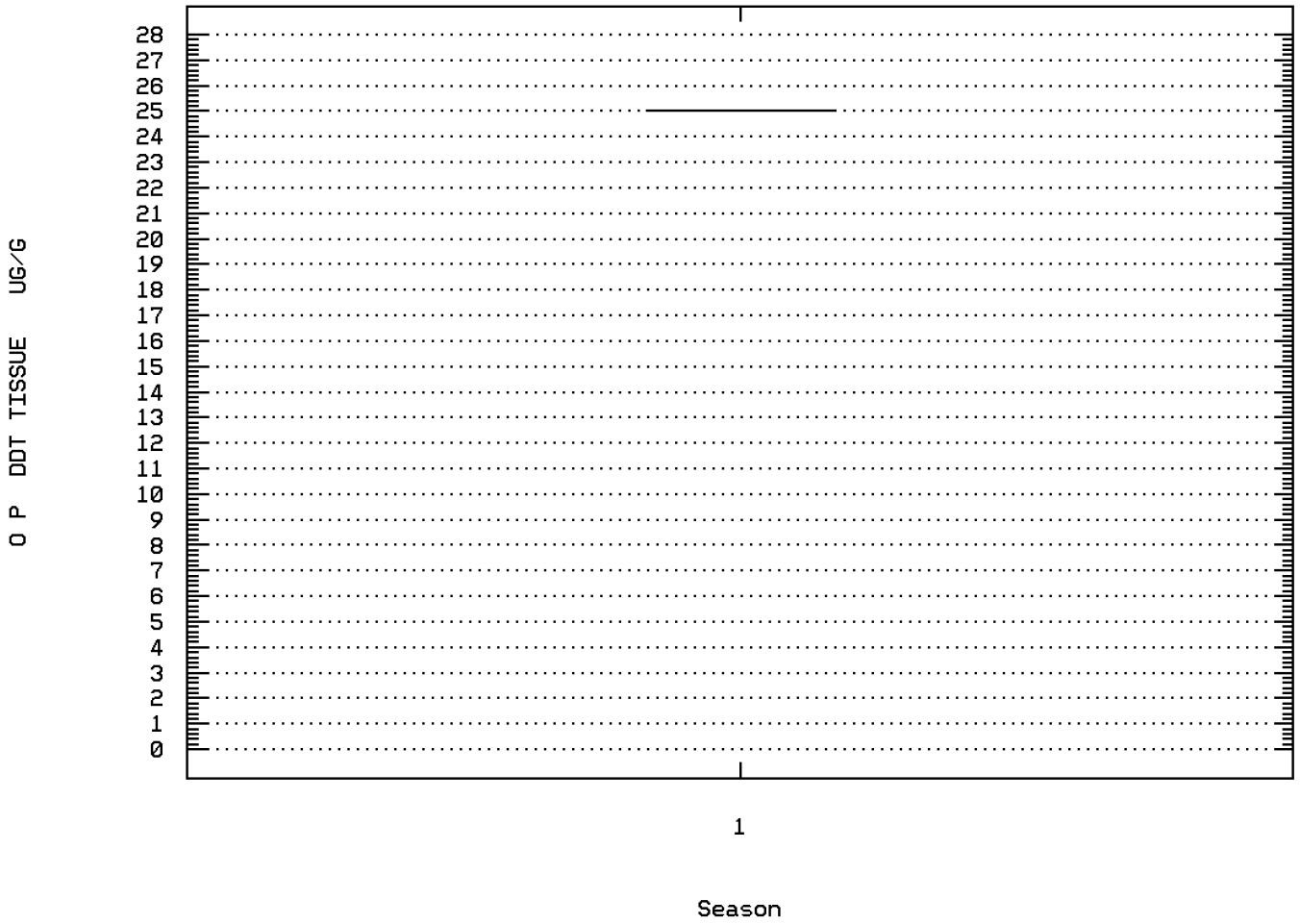


LAKE SUPERIOR 15 GRID 1509

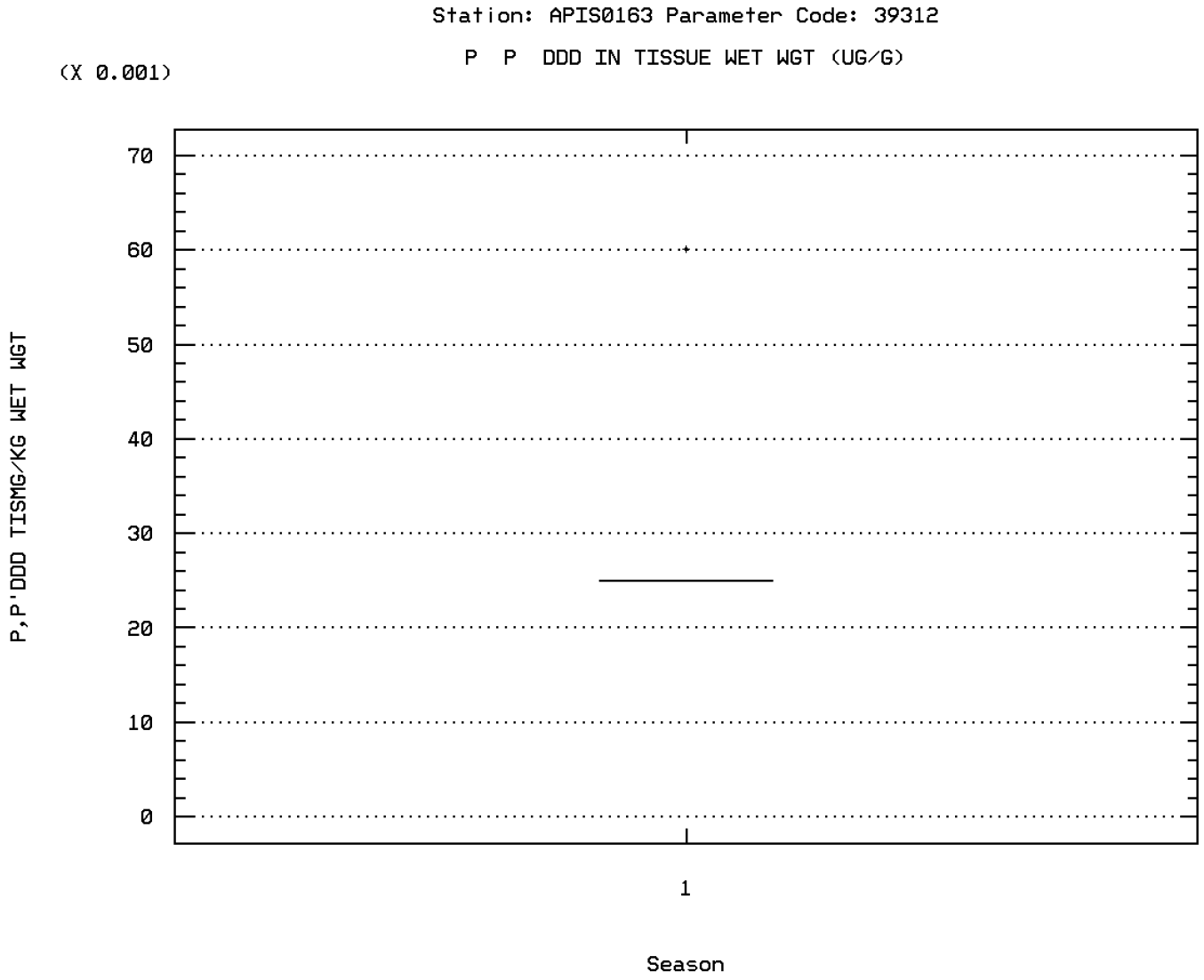
Station: APIS0163 Parameter Code: 39307

O P DDT IN TISSUE WET WGT (UG/G)

(X 0.001)



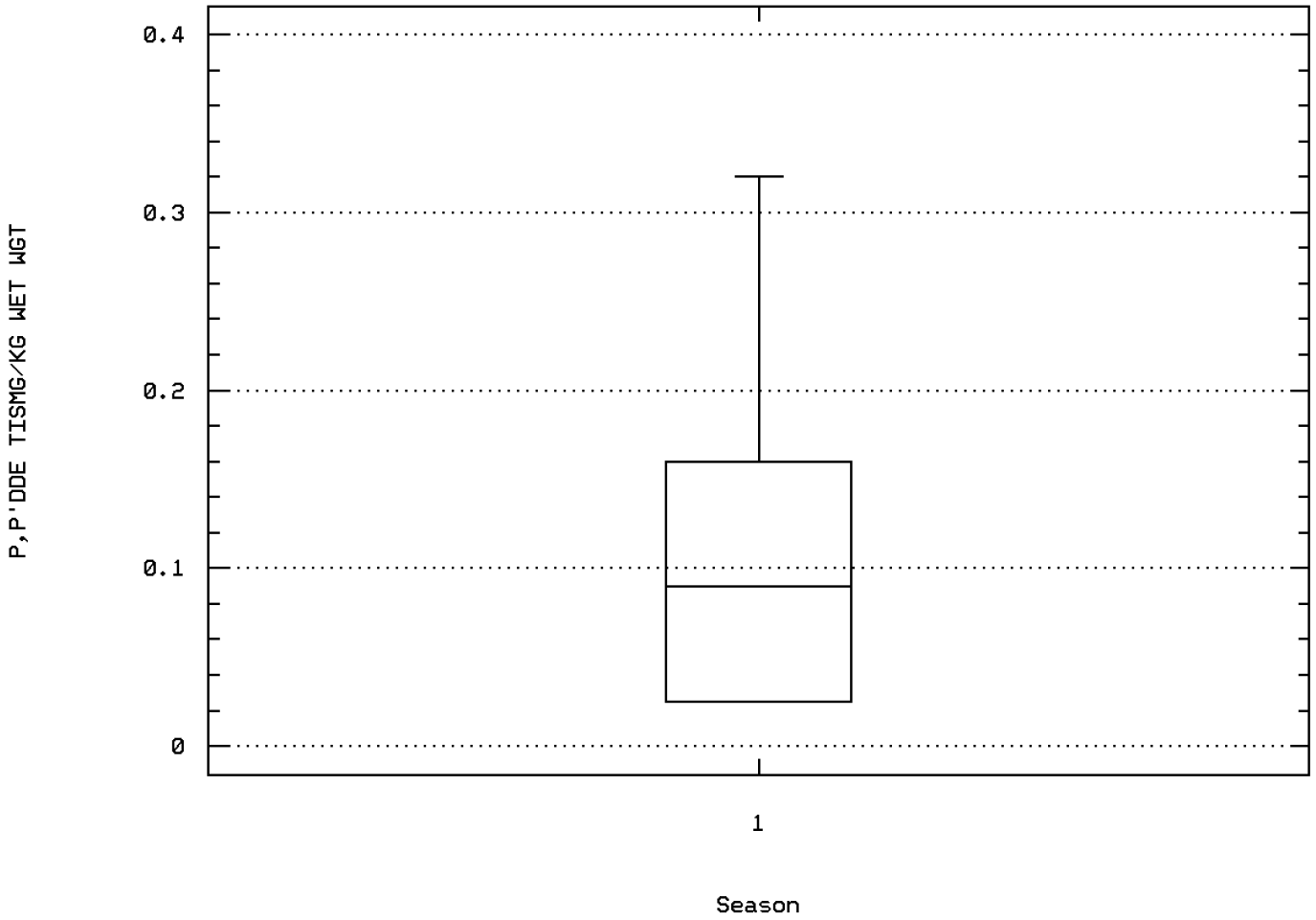
LAKE SUPERIOR 15 GRID 1509



LAKE SUPERIOR 15 GRID 1509

Station: APIS0163 Parameter Code: 39322

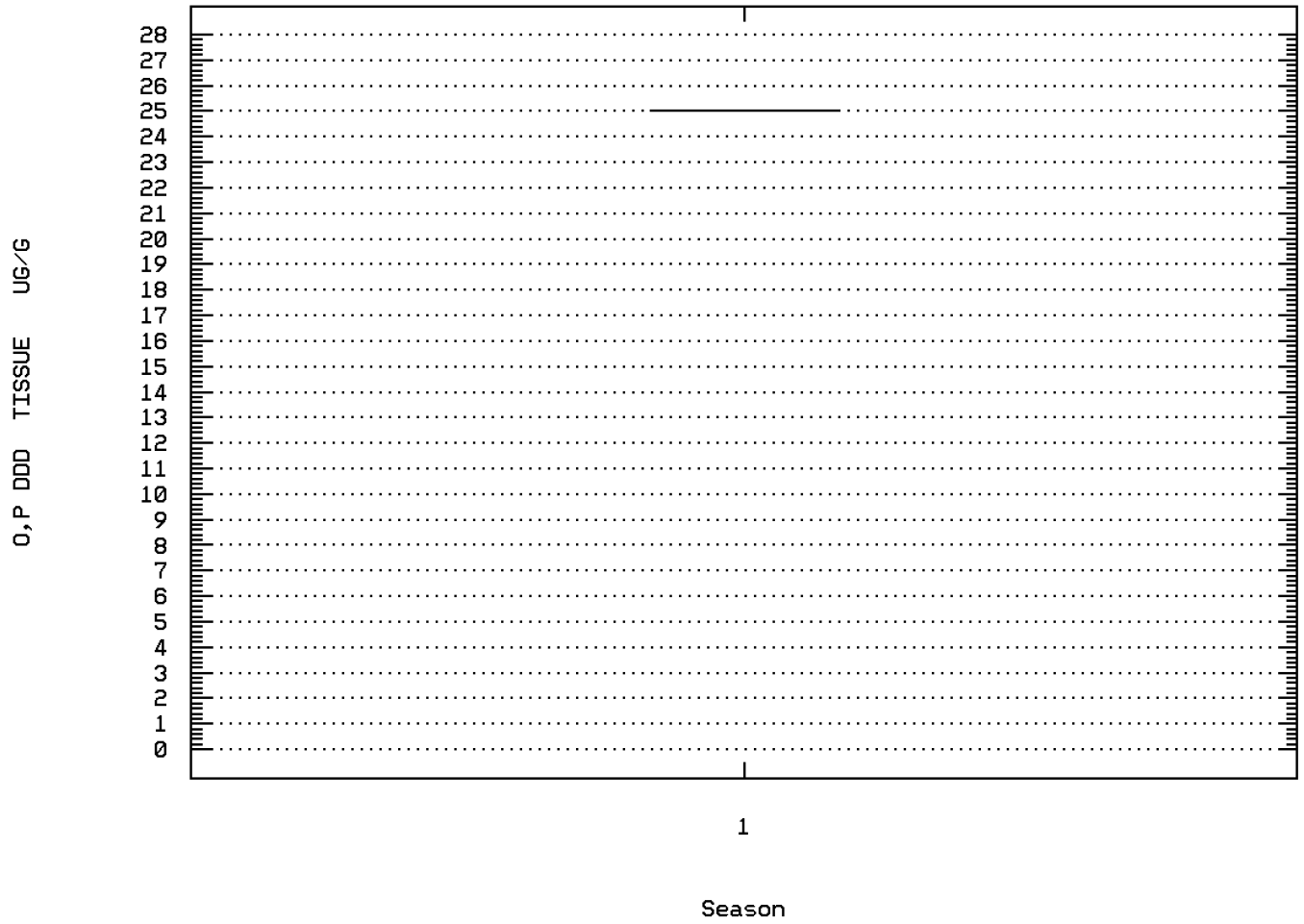
P,P'-DDE IN TISSUE WET WGT MG/KG



LAKE SUPERIOR 15 GRID 1509

Station: APIS0163 Parameter Code: 39325

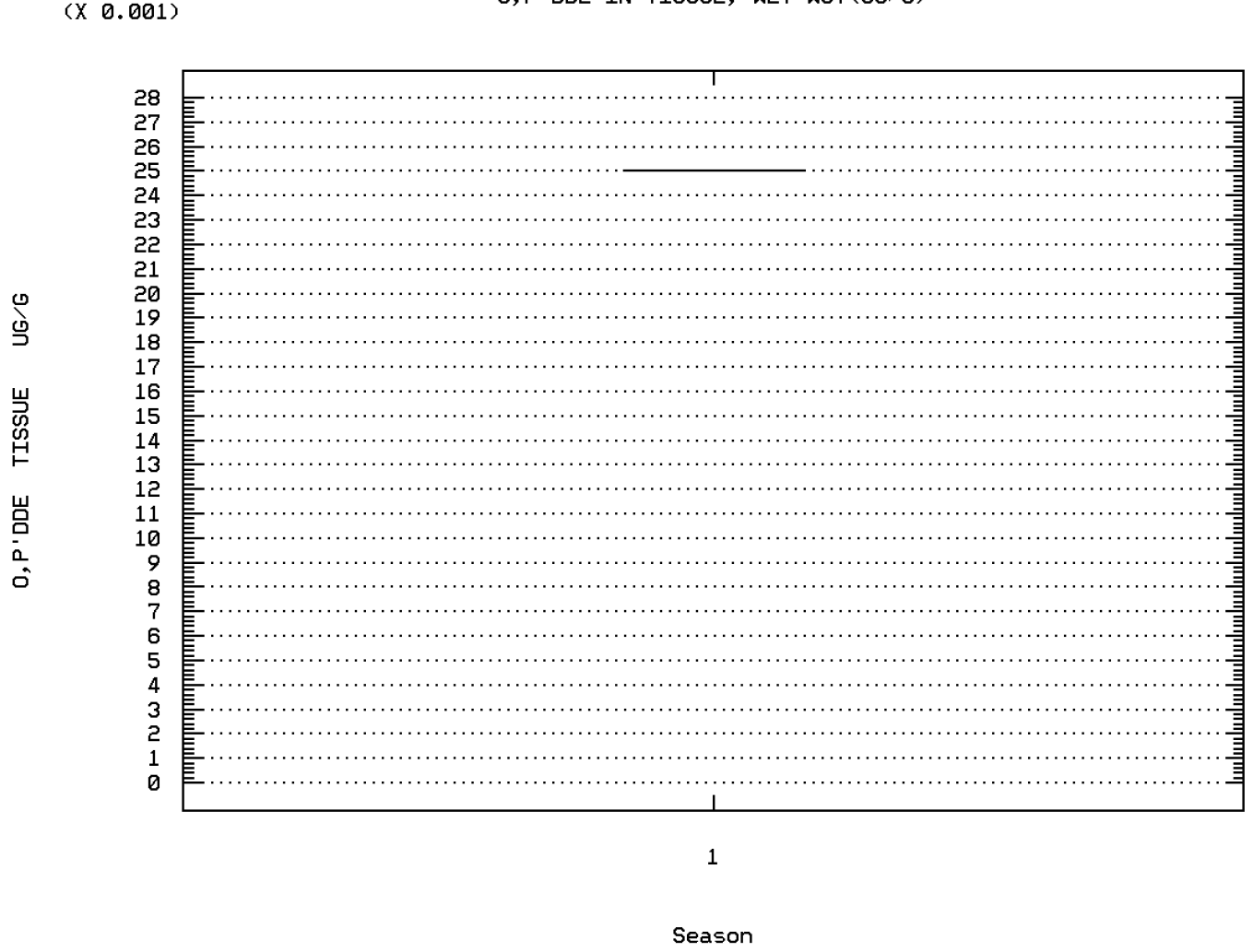
O,P DDD IN TISSUE WET WGT (UG/G)



LAKE SUPERIOR 15 GRID 1509

Station: APIS0163 Parameter Code: 39329

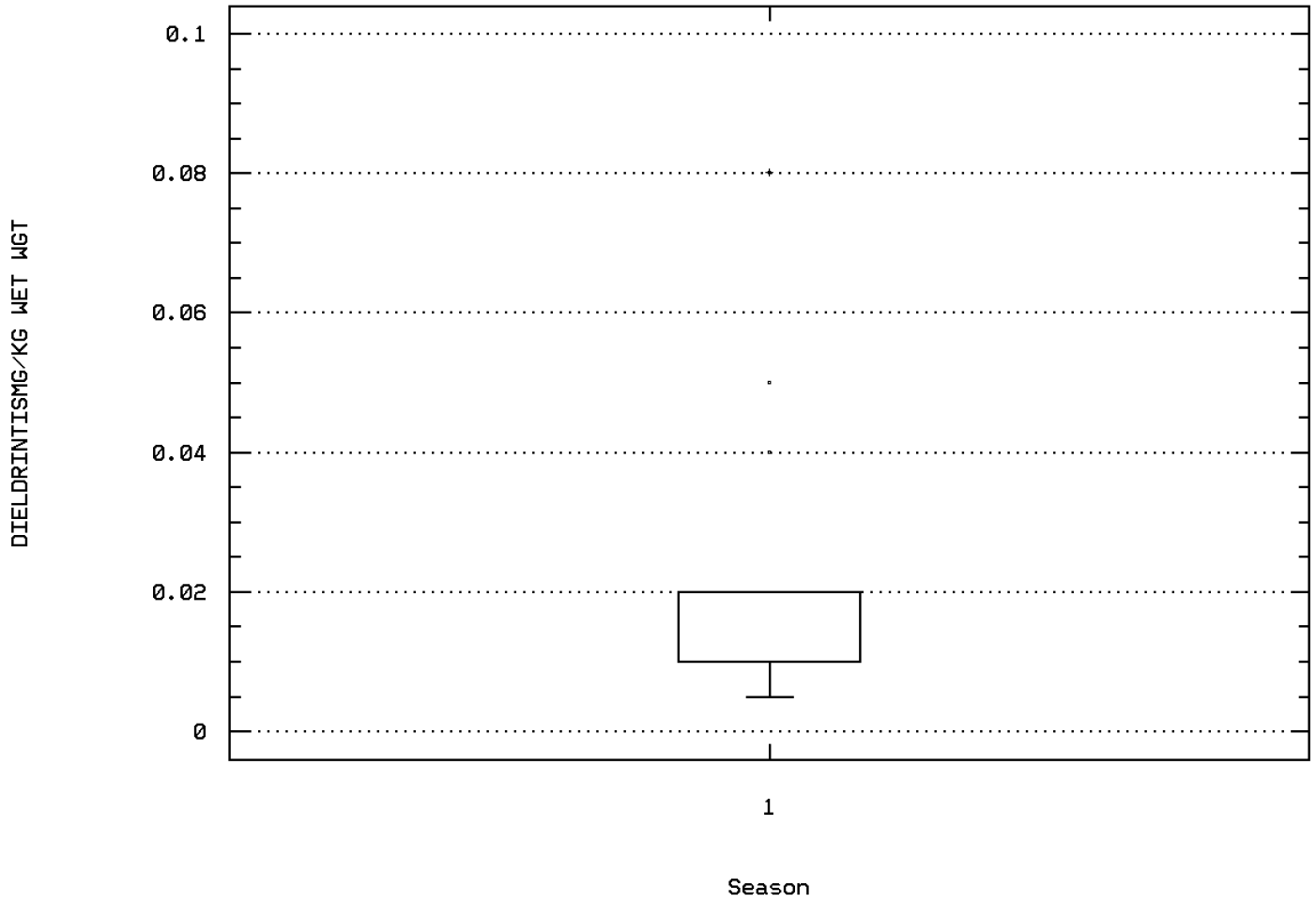
O,P DDE IN TISSUE, WET WGT(UG/G)



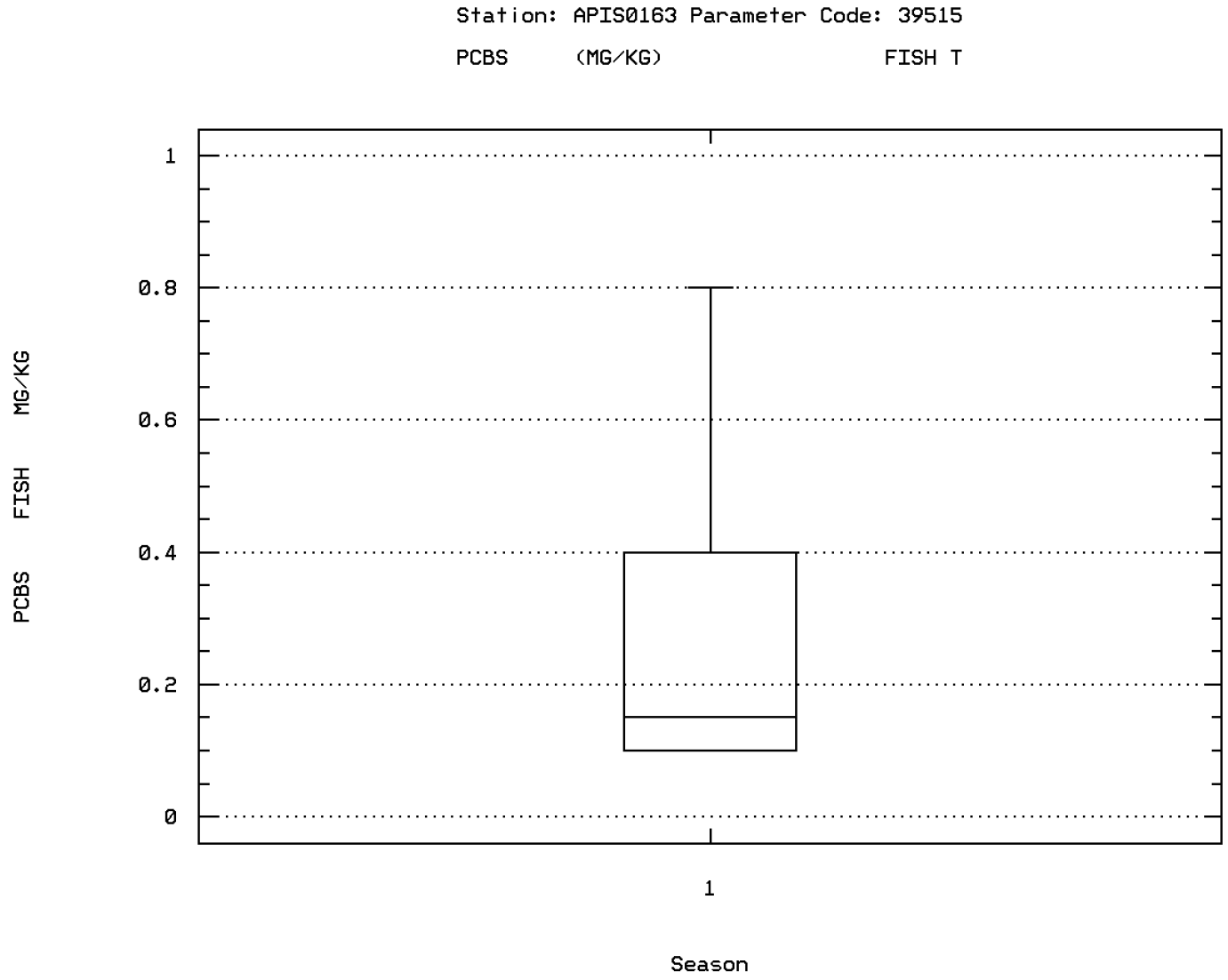
LAKE SUPERIOR 15 GRID 1509

Station: APIS0163 Parameter Code: 39404

DIELDRIN IN TISSUE WET WGT (UG/G)



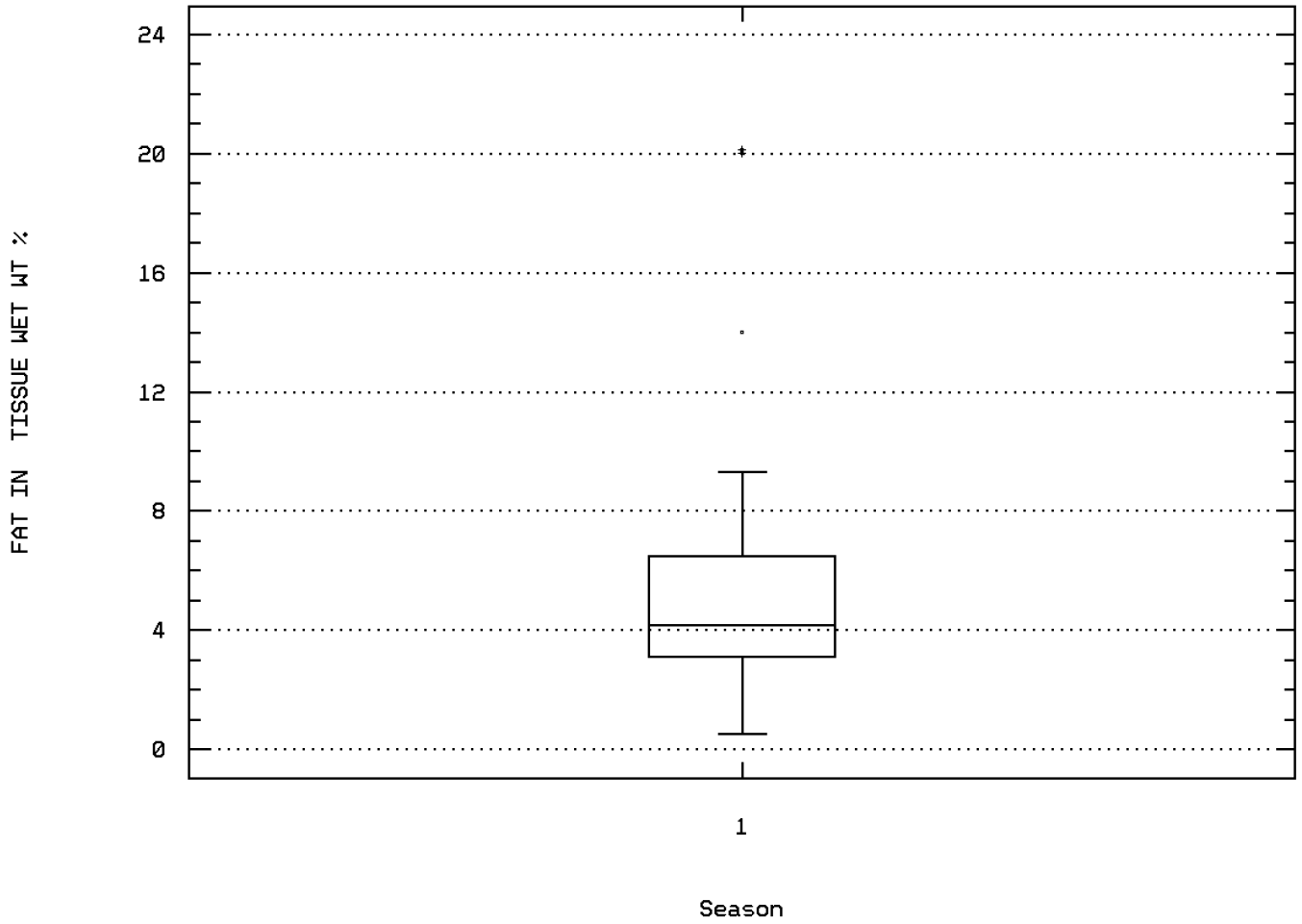
LAKE SUPERIOR 15 GRID 1509



LAKE SUPERIOR 15 GRID 1509

Station: APIS0163 Parameter Code: 78926

FAT, PERCENT, IN TISSUE, WET WEIGHT



LAKE SUPERIOR 15 GRID 1509

Station Inventory for Station: APIS0164

NPS Station ID: APIS0164 | LAT/LON: 46.815142/ -90.810420 | Agency: 21WIS | Date Created: 01/12/91
Location: BLUFF, W OF BAYFIELD HARBOR #3 | FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE/SOLIDS | STORET Station ID(s): 043067 /8280LA043067/5004W133067
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 04010301 | Depth of Water: 0 | Aquifer:
Major Basin: LAKE SUPERIOR | Elevation: 55 | Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN | ECO Region:
RF1 Index: 04010301 | RF1 Mile Point: 0.000 | Distance from RF1: 0.60 | On/Off RF1:
RF3 Index: 04010301000429.50 | RF3 Mile Point: 29.80 | Distance from RF3: 0.03 | On/Off RF3:
Description:
STATION FOR DAVID L SMITH OF MADISON (608)266-2554 CZM-IPP, 1990 SAMPLING. BLUFF WEST OF BAYFIELD HARBOR. FIELD #64-3.
BLUFF SOIL SAMPLE, ABOVE SECOND SMALL NATURAL BEACH WEST OF HARBOR. SAMPLES TAKEN ABOUT 6 FEET ABOVE WATER LINE. COMPOSITE OF 4 SAMPLES.

Parameter Inventory for Station: APIS0164

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/27/90-06/27/90	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00557	OIL & GREASE,SED,DRY WT,FREON EXTR-GRAV METH,MG/KG	06/27/90-06/27/90	1	150.	150.	150.	150.	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/27/90-06/27/90	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/27/90-06/27/90	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/90-06/27/90	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/27/90-06/27/90	1	93.	93.	93.	93.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/27/90-06/27/90	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/27/90-06/27/90	1	190.	190.	190.	190.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/27/90-06/27/90	1 ##	1.25	1.25	1.25	1.25	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/27/90-06/27/90	1	11000.	11000.	11000.	11000.	0.	0.	**	**	**	**
34480	THALLIUM DRY WGTBOTMG/KG	06/27/90-06/27/90	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
61509	ZINC SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/27/90-06/27/90	1	10.	10.	10.	10.	0.	0.	**	**	**	**
61515	NICKEL SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/27/90-06/27/90	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
61521	ARSENIC SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/27/90-06/27/90	1	11.	11.	11.	11.	0.	0.	**	**	**	**
61527	CADMIUM SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/27/90-06/27/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70320	MOISTURE CONTENT (PERCENT OF TOTAL WET WEIGHT)	06/27/90-06/27/90	1	10.	10.	10.	10.	0.	0.	**	**	**	**
70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	06/27/90-06/27/90	1	2.	2.	2.	2.	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/27/90-06/27/90	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	06/27/90-06/27/90	1	6160.	6160.	6160.	6160.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0165

NPS Station ID: APIS0165 LAT/LON: 46.728698/ -90.811309 Agency: 11NPSWRD Date Created: 04/04/98
Location: LAKE SUPERIOR 100 FEET WEST OF LONG ISLAND FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): APIS_UW_LONGC
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE LONG ISLAND WISCONSIN 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON LAKE SUPERIOR APPROXIMATELY 100 FEET OFFSHORE FROM THE WEST TIP OF LONG ISLAND. SAMPLES FOR THIS SITE WERE COLLECTED IN MIDSUMMER OF 1988. SAMPLES WERE ANALYZED FOR FECAL COLIFORM AND FECAL STREPTOCOCCUS. THE RESULTS ARE IN "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE 1986-1987" BY MARY BALCER AND DENNIS MCCAULEY WITH THE CENTER FOR LAKE SUPERIOR ENVIRONMENTAL STUDIES; UNIVERSITY OF WISCONSIN-SUPERIOR (MARCH 1989). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0165

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/15/88-08/23/88	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/15/88-08/23/88	2 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			0.5								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/15/88-08/23/88	2	35.	35.	68.	2.	2178.	46.669	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/15/88-08/23/88	2	1.067	1.067	1.833	0.301	1.173	1.083	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			11.662								

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

EPA Water Quality Criteria Analysis for Station: APIS0165

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: APIS0166

NPS Station ID: APIS0166 LAT/LON: 46.812781/ -90.812781 Agency: 1115GLSB Date Created: 05/01/82
Location: BAYFIELD HRBR, NE SECTION 100 FT W OF CITY PIER FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/STREAM/SOLIDS STORET Station ID(s): BFH72-04 /BFH72-04S
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: WISC & MINN DRAINAGE ECO Region:
RF1 Index: 04010301004 RF1 Mile Point: 8.390 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 04010301000429.50 RF3 Mile Point: 29.64 Distance from RF3: 0.04 On/Off RF3:
Description:
DATA SUPPLIED BY US EPA GREAT LAKES NATIONAL PROGRAM OFFICE. DATA FROM THE BAYFIELD HARBOR SEDIMENT STUDY.
SAMPLES ANALYZED FOR CONVENTIONAL AND TOXIC PARAMETERS. FOR INFORMATION, CONTACT: TONY KIZLAUSKAS EPA GLNPO (312) 353-3576.
SAMPLE TAKEN FROM BAYFIELD HARBOR, NORTHEASTERN SECTION OF HARBOR BASIN 100 FEET WEST OF CITY PIER AT BAYFIELD, WISCONSIN.

Parameter Inventory for Station: APIS0166

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	09/14/72-09/14/72	1	13400.	13400.	13400.	13400.	0.	0.	**	**	**	**
00553	OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,MG/KG	09/14/72-09/14/72	1	400.	400.	400.	400.	0.	0.	**	**	**	**
00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	09/14/72-09/14/72	1	800.	800.	800.	800.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	09/14/72-09/14/72	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/14/72-09/14/72	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/14/72-09/14/72	1	5.	5.	5.	5.	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/14/72-09/14/72	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	09/14/72-09/14/72	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0167

NPS Station ID: APIS0167 | LAT/LON: 46.810977/ -90.812781 | Agency: 21WIS | Date Created: 01/26/91
Location: BAYFIELD HARBOR, N END SITE 1 | FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE/SOLIDS | STORET Station ID(s): 043065 /8280LA043065/5004W133065
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 04010301 | Depth of Water: 0 | Aquifer:
Major Basin: LAKE SUPERIOR | Elevation: 55 | Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN | ECO Region:
RF1 Index: 04010301 | RF1 Mile Point: 0.000 | Distance from RF1: 0.30 | On/Off RF1:
RF3 Index: 04010301000429.50 | RF3 Mile Point: 29.69 | Distance from RF3: 0.00 | On/Off RF3:
Description:
STATION FOR DAVID L SMITH OF MADISON (608)266-2554 CZM-IPP, 1990 SAMPLING BAYFIELD HARBOR. FIELD #64-1. SEDIMENT SAMPLE TAKEN WITH TUBE CORER FROM DEPOSITIONAL AREA ALONGSIDE OLD PIER PILINGS AT NORTHWEST CORNER OF HARBOR. COMPOSITE OF 4 SAMPLES.

Parameter Inventory for Station: APIS0167

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/27/90-06/27/90	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00557	OIL & GREASE,SED,DRY WT,FREON EXTR-GRAV METH,MG/KG	06/27/90-06/27/90	1	430.	430.	430.	430.	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/27/90-06/27/90	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/27/90-06/27/90	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/90-06/27/90	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/27/90-06/27/90	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/27/90-06/27/90	1	23.	23.	23.	23.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/27/90-06/27/90	1	51.	51.	51.	51.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/27/90-06/27/90	1 ##	1.25	1.25	1.25	1.25	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/27/90-06/27/90	1	6800.	6800.	6800.	6800.	0.	0.	**	**	**	**
34480	THALLIUM DRY WGTBOTMG/KG	06/27/90-06/27/90	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
61509	ZINC SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/27/90-06/27/90	1	5.	5.	5.	5.	0.	0.	**	**	**	**
61515	NICKEL SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/27/90-06/27/90	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
61521	ARSENIC SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/27/90-06/27/90	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
61527	CADMIUM SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/27/90-06/27/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70320	MOISTURE CONTENT (PERCENT OF TOTAL WET WEIGHT)	06/27/90-06/27/90	1	23.	23.	23.	23.	0.	0.	**	**	**	**
70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	06/27/90-06/27/90	1	0.	0.	0.	0.	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/27/90-06/27/90	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	06/27/90-06/27/90	1	7280.	7280.	7280.	7280.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0168

NPS Station ID: APIS0168
LAT/LON: 46.810977/ -90.812781
Agency: 21WIS
Date Created: 01/12/91
Location: BAYFIELD HARBOR, N END SITE 1
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE/SOLIDS
STORET Station ID(s): 043965 /8280LA043965/5004W133965
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 55
Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 1.20
On/Off RF1:
RF3 Index: 04010301000427.99
RF3 Mile Point: 29.28
Distance from RF3: 0.07
On/Off RF3:
Description:
STATION FOR DAVID L SMITH OF MADISON (608)266-2554 CZM-IPP, 1990 SAMPLING BAYFIELD HARBOR. FIELD #64-1. SEDIMENT SAMPLE TAKEN WITH TUBE CORER FROM DEPOSITIONAL AREA ALONGSIDE OLD PIER PILINGS AT NORTHWEST CORNER OF HARBOR. COMPOSITE OF 4 SAMPLES.

Parameter Inventory for Station: APIS0168

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: APIS0169

NPS Station ID: APIS0169
LAT/LON: 46.809309/ -90.812920
Agency: 21WIS
Date Created: 01/12/91
Location: BAYFIELD HARBOR S END SITE 2
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE/SOLIDS
STORET Station ID(s): 043066 /8280LA043066/5004W133066
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010301
Depth of Water: 9
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 55
Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 04010301005600.00
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:
STATION FOR DAVID L SMITH OF MADISON (608)266-2554 CZM-IPP, 1990 SAMPLING. BAYFIELD HARBOR. FIELD #64-2. SEDIMENT SAMPLE TAKEN WITH TUBE CORER FROM HARBOR BASIN PROPER NEAR SOUTH END. SAMPLES TAKEN BETWEEN DOCKS WITH SLIPS ADJACENT TO SECTION CONNECTING THEM. COMPOSITE OF 4 SAMPLES.

Parameter Inventory for Station: APIS0169

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/27/90-05/14/91	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00495	MOISTURE CONTENT (PERCENT OF TOTAL DRY WEIGHT)	05/14/91-05/14/91	1	54.2	54.2	54.2	54.2	0.	0.	**	**	**	**
00557	OIL & GREASE,SED,DRY WT,FREON EXTR-GRAV METH,MG/KG	06/27/90-06/27/90	1	1200.	1200.	1200.	1200.	0.	0.	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	05/14/91-05/14/91	1	44.	44.	44.	44.	0.	0.	**	**	**	**
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	05/14/91-05/14/91	1	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	05/14/91-05/14/91	1	2300.	2300.	2300.	2300.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	05/14/91-05/14/91	1	3.18	3.18	3.18	3.18	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/27/90-06/27/90	1	27.	27.	27.	27.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/27/90-06/27/90	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	05/14/91-05/14/91	1	0.41	0.41	0.41	0.41	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/90-05/14/91	2	10.5	10.5	11.	10.	0.5	0.707	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/27/90-05/14/91	2	56.5	56.5	62.	51.	60.5	7.778	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/27/90-05/14/91	2	48.	48.	50.	46.	8.	2.828	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/27/90-05/14/91	2	90.	90.	92.	88.	8.	2.828	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/27/90-06/27/90	1 ##	1.25	1.25	1.25	1.25	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	05/14/91-05/14/91	1	4900.	4900.	4900.	4900.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/27/90-05/14/91	2	8800.	8800.	9600.	8000.	1280000.	1131.371	**	**	**	**
10217	PCB CONGENER IUPAC #101 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	65.	65.	65.	65.	0.	0.	**	**	**	**
19128	PCB CONGENER IUPAC #7 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
19129	PCB CONGENER IUPAC #6 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
19130	PCB CONGENER IUPAC #5/8 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
19131	PCB CONGENER IUPAC #19 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
19132	PCB CONGENER IUPAC #17 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
19133	PCB CONGENER IUPAC #24/27 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
19134	PCB CONGENER IUPAC #16/32 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
19135	PCB CONGENER IUPAC #26 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
19136	PCB CONGENER IUPAC #28/31 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	1.25	1.25	1.25	1.25	0.	0.	**	**	**	**
19137	PCB CONGENER IUPAC #33 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
19139	PCB CONGENER IUPAC #45 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
19140	PCB CONGENER IUPAC #46 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
19141	PCB CONGENER IUPAC #52 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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

Parameter Inventory for Station: APIS0169

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
19142	PCB CONGENER IUPAC #49 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
19143	PCB CONGENER IUPAC #47/48 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
19144	PCB CONGENER IUPAC #44 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.55	0.55	0.55	0.55	0.	0.	**	**	**	**
19145	PCB CONGENER IUPAC #37/42 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.55	0.55	0.55	0.55	0.	0.	**	**	**	**
19146	PCB CONGENER IUPAC #41/64/71 TISSUE,WET WT UG/KG	05/14/91-05/14/91	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
19147	PCB CONGENER IUPAC #40 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
19148	PCB CONGENER IUPAC #74 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
19149	PCB CONGENER IUPAC #70/76 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
19150	PCB CONGENER IUPAC #66/95 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2	3.2	3.2	3.6	2.8	0.32	0.566	**	**	**	**
19151	PCB CONGENER IUPAC #91 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
19152	PCB CONGENER IUPAC #56/60 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
19153	PCB CONGENER IUPAC #84/92 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.65	0.65	0.65	0.65	0.	0.	**	**	**	**
19154	PCB CONGENER, IUPAC #101, TISSUE, WET WEIGHT UG/KG	05/14/91-05/14/91	2	1.5	1.5	1.6	1.4	0.02	0.141	**	**	**	**
19155	PCB CONGENER IUPAC #99 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.5	0.5	0.7	0.3	0.08	0.283	**	**	**	**
19156	PCB CONGENER IUPAC #97 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
19157	PCB CONGENER IUPAC #87 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
19158	PCB CONGENER IUPAC #85 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
19160	PCB CONGENER IUPAC #77/110 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2	1.75	1.75	2.	1.5	0.125	0.354	**	**	**	**
19161	PCB CONGENER IUPAC #82 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
19162	PCB CONGENER IUPAC #151 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
19163	PCB CONGENER IUPAC #135/144 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
19164	PCB CONGENER IUPAC #149 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2	1.9	1.9	2.2	1.6	0.18	0.424	**	**	**	**
19165	PCB CONGENER IUPAC #118 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
19166	PCB CONGENER IUPAC #146 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
19167	PCB CONGENER IUPAC #132/153 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2	2.45	2.45	2.8	2.1	0.245	0.495	**	**	**	**
19168	PCB CONGENER IUPAC #141 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
19169	PCB CONGENER IUPAC #137/176 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
19170	PCB CONGENER IUPAC #138/163 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	1.425	1.425	2.	0.85	0.661	0.813	**	**	**	**
19171	PCB CONGENER IUPAC #178 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.65	0.65	0.65	0.65	0.	0.	**	**	**	**
19172	PCB CONGENER IUPAC #182/187 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.75	0.75	0.75	0.75	0.	0.	**	**	**	**
19173	PCB CONGENER IUPAC #183 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
19174	PCB CONGENER IUPAC #185 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
19175	PCB CONGENER IUPAC #174 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.55	0.55	0.55	0.55	0.	0.	**	**	**	**
19176	PCB CONGENER IUPAC #177 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.55	0.55	0.55	0.55	0.	0.	**	**	**	**
19177	PCB CONGENER IUPAC #171/202 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
19178	PCB CONGENER IUPAC #172/197 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
19179	PCB CONGENER IUPAC #180 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
19180	PCB CONGENER IUPAC #199 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
19182	PCB CONGENER IUPAC #201 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
19183	PCB CONGENER IUPAC #196/203 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
19184	PCB CONGENER IUPAC #195/208 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
19185	PCB CONGENER IUPAC #194 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
19186	PCB CONGENER IUPAC #206 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.75	0.75	0.75	0.75	0.	0.	**	**	**	**
19190	PCB CONGENER IUPAC #7 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
19191	PCB CONGENER IUPAC #6 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1 ##	0.225	0.225	0.225	0.225	0.	0.	**	**	**	**
19192	PCB CONGENER IUPAC #5/8 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
19194	PCB CONGENER IUPAC #18 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	0.78	0.78	0.78	0.78	0.	0.	**	**	**	**
19195	PCB CONGENER IUPAC #17 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	0.44	0.44	0.44	0.44	0.	0.	**	**	**	**
19196	PCB CONGENER IUPAC #24/27 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
19198	PCB CONGENER IUPAC #26 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
19199	PCB CONGENER IUPAC #28/31 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
19200	PCB CONGENER IUPAC #33 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
19201	PCB CONGENER IUPAC #22 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
19202	PCB CONGENER IUPAC #45 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
19203	PCB CONGENER IUPAC #46 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
19204	PCB CONGENER IUPAC #52 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	11.	11.	11.	11.	0.	0.	**	**	**	**
19207	PCB CONGENER IUPAC #44 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
19208	PCB CONGENER IUPAC #37/42 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	0.74	0.74	0.74	0.74	0.	0.	**	**	**	**
19211	PCB CONGENER IUPAC #74 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	0.77	0.77	0.77	0.77	0.	0.	**	**	**	**
19212	PCB CONGENER IUPAC #70/76 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
19214	PCB CONGENER IUPAC #91 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
19216	PCB CONGENER IUPAC #84/92 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	17.	17.	17.	17.	0.	0.	**	**	**	**
19218	PCB CONGENER IUPAC #99 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	5.1	5.1	5.1	5.1	0.	0.	**	**	**	**

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Parameter Inventory for Station: APIS0169

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
19219	PCB CONGENER IUPAC #97 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
19220	PCB CONGENER IUPAC #87 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	23.	23.	23.	23.	0.	0.	**	**	**	**
19221	PCB CONGENER IUPAC #85 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
19222	PCB CONGENER IUPAC #136 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	15.	15.	15.	15.	0.	0.	**	**	**	**
19223	PCB CONGENER IUPAC #77/110 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	69.	69.	69.	69.	0.	0.	**	**	**	**
19224	PCB CONGENER IUPAC #82 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
19225	PCB CONGENER IUPAC #151 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	42.	42.	42.	42.	0.	0.	**	**	**	**
19226	PCB CONGENER IUPAC #135/144 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	35.	35.	35.	35.	0.	0.	**	**	**	**
19227	PCB CONGENER IUPAC #149 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	130.	130.	130.	130.	0.	0.	**	**	**	**
19228	PCB CONGENER IUPAC #118 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	35.	35.	35.	35.	0.	0.	**	**	**	**
19229	PCB CONGENER IUPAC #146 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	38.	38.	38.	38.	0.	0.	**	**	**	**
19230	PCB CONGENER IUPAC #132/153 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	280.	280.	280.	280.	0.	0.	**	**	**	**
19231	PCB CONGENER IUPAC #141 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	42.	42.	42.	42.	0.	0.	**	**	**	**
19232	PCB CONGENER IUPAC #137/176 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
19233	PCB CONGENER IUPAC #138/163 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	240.	240.	240.	240.	0.	0.	**	**	**	**
19234	PCB CONGENER IUPAC #178 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	16.	16.	16.	16.	0.	0.	**	**	**	**
19235	PCB CONGENER IUPAC #182/187 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	48.	48.	48.	48.	0.	0.	**	**	**	**
19236	PCB CONGENER IUPAC #183 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	45.	45.	45.	45.	0.	0.	**	**	**	**
19237	PCB CONGENER IUPAC #185 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	6.	6.	6.	6.	0.	0.	**	**	**	**
19238	PCB CONGENER IUPAC #174 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	49.	49.	49.	49.	0.	0.	**	**	**	**
19239	PCB CONGENER IUPAC #177 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	32.	32.	32.	32.	0.	0.	**	**	**	**
19240	PCB CONGENER IUPAC #171/202 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	20.	20.	20.	20.	0.	0.	**	**	**	**
19241	PCB CONGENER IUPAC #172/197 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	16.	16.	16.	16.	0.	0.	**	**	**	**
19242	PCB CONGENER IUPAC #180 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	110.	110.	110.	110.	0.	0.	**	**	**	**
19243	PCB CONGENER IUPAC #199 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
19244	PCB CONGENER IUPAC #170/190 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	120.	120.	120.	120.	0.	0.	**	**	**	**
19245	PCB CONGENER IUPAC #201 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	16.	16.	16.	16.	0.	0.	**	**	**	**
19246	PCB CONGENER IUPAC #196/203 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	23.	23.	23.	23.	0.	0.	**	**	**	**
19247	PCB CONGENER IUPAC #195/208 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	12.	12.	12.	12.	0.	0.	**	**	**	**
19248	PCB CONGENER IUPAC #194 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	10.	10.	10.	10.	0.	0.	**	**	**	**
19249	PCB CONGENER IUPAC #206 SOIL,TOTAL UG/KG	05/14/91-05/14/91	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
19253	PCB CONGENER IUPAC #18 TISSUE,WET WT UG/KG	05/14/91-05/14/91	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34203	ACENAPHTHYLENE DRY WGTBOTUG/KG	05/14/91-05/14/91	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
34208	ACENAPHTHENE DRY WGTBOTUG/KG	05/14/91-05/14/91	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
34223	ANTHRACENE DRY WGTBOTUG/KG	05/14/91-05/14/91	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
34233	BENZO(B)FLUORANTHENE,SEDIMENTS,DRY WGT,UG/KG	05/14/91-05/14/91	1	590.	590.	590.	590.	0.	0.	**	**	**	**
34245	BENZO(K)FLUORANTHENE, DRY WT, SEDIMENT UG/KG	05/14/91-05/14/91	1	330.	330.	330.	330.	0.	0.	**	**	**	**
34323	CHRYSENE DRY WGTBOTUG/KG	05/14/91-05/14/91	1	550.	550.	550.	550.	0.	0.	**	**	**	**
34379	FLUORANTHENE DRY WGTBOTUG/KG	05/14/91-05/14/91	1	610.	610.	610.	610.	0.	0.	**	**	**	**
34384	FLUORENE DRY WGTBOTUG/KG	05/14/91-05/14/91	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
34406	INDENO (1,2,3-CD) PYRENE DRY WGTBOTUG/KG	05/14/91-05/14/91	1	120.	120.	120.	120.	0.	0.	**	**	**	**
34464	PHENANTHRENE DRY WGTBOTUG/KG	05/14/91-05/14/91	1	660.	660.	660.	660.	0.	0.	**	**	**	**
34472	PYRENE DRY WGTBOTUG/KG	05/14/91-05/14/91	1	750.	750.	750.	750.	0.	0.	**	**	**	**
34480	THALLIUM DRY WGTBOTMG/KG	06/27/90-06/27/90	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
34559	1,2,5,6-DIBENZANTHRACENE DRY WGTBOTUG/KG	05/14/91-05/14/91	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/14/91-05/14/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
61509	ZINC SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/27/90-05/14/91	2	76.	76.	79.	73.	18.	4.243	**	**	**	**
61515	NICKEL SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/27/90-05/14/91	2	9.5	9.5	11.	8.	4.5	2.121	**	**	**	**
61521	ARSENIC SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/27/90-06/27/90	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
61527	CADMIUM SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/27/90-06/27/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70320	MOISTURE CONTENT (PERCENT OF TOTAL WET WEIGHT)	06/27/90-05/14/91	2	46.	46.	54.	38.	128.	11.314	**	**	**	**
70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	06/27/90-05/14/91	2	4.	4.	4.	4.	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/27/90-05/14/91	2	0.075	0.075	0.08	0.07	0.	0.007	**	**	**	**
71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	05/14/91-05/14/91	2 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	05/14/91-05/14/91	2 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	05/14/91-05/14/91	2 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
78679	PERYLENE IN SEDIMENT UG/KG	05/14/91-05/14/91	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
78828	BENZO(GHI)PERYLENE IN SEDIMENT DRY WEIGHT UG/KG	05/14/91-05/14/91	1	120.	120.	120.	120.	0.	0.	**	**	**	**
78926	FAT, PERCENT, IN TISSUE, WET WEIGHT %	05/14/91-05/14/91	2	1.55	1.55	1.6	1.5	0.005	0.071	**	**	**	**
81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	06/27/90-05/14/91	2	15450.	15450.	19900.	11000.	39605000.	6293.25	**	**	**	**
85754	BENZO-A-PYRENE, SOIL, DRY WT, MG/KG	05/14/91-05/14/91	1	340.	340.	340.	340.	0.	0.	**	**	**	**
85755	BENZO(A)ANTHRACENE, SOIL, DRY WT, MG/KG	05/14/91-05/14/91	1	300.	300.	300.	300.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0170

NPS Station ID: APIS0170 LAT/LON: 46.811948/ -90.813337 Agency: 1115GLSB Date Created: 05/01/82
Location: BAYFIELD HRBR, CENTER 25 FT N OF NORTHERN DOCK FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/STREAM/SOLIDS STORET Station ID(s): BFH72-03 /BFH72-03S
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: WISC & MINN DRAINAGE ECO Region:
RF1 Index: 04010301004 RF1 Mile Point: 8.390 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 04010301000429.50 RF3 Mile Point: 29.64 Distance from RF3: 0.04 On/Off RF3:
Description:
DATA SUPPLIED BY US EPA GREAT LAKES NATIONAL PROGRAM OFFICE. DATA FROM THE BAYFIELD HARBOR SEDIMENT STUDY.
SAMPLES ANALYZED FOR CONVENTIONAL AND TOXIC PARAMETERS. FOR INFORMATION, CONTACT: TONY KIZLAUSKAS EPA GLNPO (312) 353-3576.
SAMPLE TAKEN FROM BAYFIELD HARBOR, MIDDLE OF HARBOR BASIN 25 FEET NORTH OF THE NORTHERNMOST DOCK, 300 FEET EAST OF SHORELINE
AT BAYFIELD, WISCONSIN.

Parameter Inventory for Station: APIS0170

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	09/14/72-09/14/72	1	18200.	18200.	18200.	18200.	0.	0.	**	**	**	**
00553	OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,MG/KG	09/14/72-09/14/72	1	700.	700.	700.	700.	0.	0.	**	**	**	**
00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	09/14/72-09/14/72	1	1200.	1200.	1200.	1200.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	09/14/72-09/14/72	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/14/72-09/14/72	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/14/72-09/14/72	1	20.	20.	20.	20.	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/14/72-09/14/72	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	09/14/72-09/14/72	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0171

NPS Station ID: APIS0171 LAT/LON: 46.813059/ -90.813337 Agency: 1115GLSB Date Created: 05/01/82
Location: BAYFIELD HRBR, NW SECTION 100 FT FR FERRY DOCK FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/STREAM/SOLIDS STORET Station ID(s): BFH72-05 /BFH72-05S
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: WISC & MINN DRAINAGE ECO Region:
RF1 Index: 04010301004 RF1 Mile Point: 8.390 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 04010301066300.00 RF3 Mile Point: 0.01 Distance from RF3: 0.02 On/Off RF3:
Description:
DATA SUPPLIED BY US EPA GREAT LAKES NATIONAL PROGRAM OFFICE. DATA FROM THE BAYFIELD HARBOR SEDIMENT STUDY.
SAMPLES ANALYZED FOR CONVENTIONAL AND TOXIC PARAMETERS. FOR INFORMATION, CONTACT: TONY KIZLAUSKAS EPA GLNPO (312) 353-3576.
SAMPLE TAKEN FROM BAYFIELD HARBOR, NORTHWEST SECTION OF HARBOR BASIN 120 FEET FROM SHORE AND 100 FEET FROM FERRY DOCK AT BAYFIELD, WISCONSIN.

Parameter Inventory for Station: APIS0171

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	09/14/72-09/14/72	1	31300.	31300.	31300.	31300.	0.	0.	**	**	**	**
00553	OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,MG/KG	09/14/72-09/14/72	1	1200.	1200.	1200.	1200.	0.	0.	**	**	**	**
00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	09/14/72-09/14/72	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	09/14/72-09/14/72	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/14/72-09/14/72	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/14/72-09/14/72	1	46.	46.	46.	46.	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/14/72-09/14/72	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	09/14/72-09/14/72	1	3.2	3.2	3.2	3.2	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0172

NPS Station ID: APIS0172 LAT/LON: 46.811670/ -90.813615 Agency: 1115GLSB Date Created: 05/01/82
Location: BAYFIELD HRBR, S END BTWEEN TWO NORTHERN DOCKS FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/STREAM/SOLIDS STORET Station ID(s): BFH72-02 /BFH72-02S
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: WISC & MINN DRAINAGE ECO Region:
RF1 Index: 04010301004 RF1 Mile Point: 8.390 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 04010301000429.50 RF3 Mile Point: 29.73 Distance from RF3: 0.05 On/Off RF3:
Description:
DATA SUPPLIED BY US EPA GREAT LAKES NATIONAL PROGRAM OFFICE. DATA FROM THE BAYFIELD HARBOR SEDIMENT STUDY.
SAMPLES ANALYZED FOR CONVENTIONAL AND TOXIC PARAMETERS. FOR INFORMATION, CONTACT: TONY KIZLAUSKAS EPA GLNPO (312) 353-3576.
SAMPLE TAKEN FROM BAYFIELD HARBOR, SOUTH END OF HARBOR BASIN BETWEEN THE TWO NORTHERNMOST DOCKS, 250 FEET TO SOUTH BREAKWATER AT BAYFIELD, WISCONSIN.

Parameter Inventory for Station: APIS0172

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	09/14/72-09/14/72	1	26600.	26600.	26600.	26600.	0.	0.	**	**	**	**
00553	OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,MG/KG	09/14/72-09/14/72	1	500.	500.	500.	500.	0.	0.	**	**	**	**
00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	09/14/72-09/14/72	1	1400.	1400.	1400.	1400.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	09/14/72-09/14/72	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/14/72-09/14/72	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/14/72-09/14/72	1	40.	40.	40.	40.	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/14/72-09/14/72	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	09/14/72-09/14/72	1	3.	3.	3.	3.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0173

NPS Station ID: APIS0173 LAT/LON: 46.811115/ -90.813892 Agency: 1115GLSB Date Created: 05/01/82
Location: BAYFIELD HRBR, S END 200 FT TO SOUTH BREAKWATER FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/STREAM/SOLIDS STORET Station ID(s): BFH72-01 /BFH72-01S
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: WISC & MINN DRAINAGE ECO Region:
RF1 Index: 04010301004 RF1 Mile Point: 8.300 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 04010301006300.00 RF3 Mile Point: 0.00 Distance from RF3: 0.19 On/Off RF3:
Description:
DATA SUPPLIED BY US EPA GREAT LAKES NATIONAL PROGRAM OFFICE. DATA FROM THE BAYFIELD HARBOR SEDIMENT STUDY.
SAMPLES ANALYZED FOR CONVENTIONAL AND TOXIC PARAMETERS. FOR INFORMATION, CONTACT: TONY KIZLAUSKAS EPA GLNPO (312) 353-3576.
SAMPLE TAKEN FROM BAYFIELD HARBOR, SOUTH END OF HARBOR BETWEEN THE TWO SOUTHERNMOST DOCKS, 200 FEET TO SOUTH BREAKWATER AT BAYFIELD, WISCONSIN.

Parameter Inventory for Station: APIS0173

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	09/14/72-09/14/72	1	109800.	109800.	109800.	109800.	0.	0.	**	**	**	**
00553	OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,MG/KG	09/14/72-09/14/72	1	2300.	2300.	2300.	2300.	0.	0.	**	**	**	**
00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	09/14/72-09/14/72	1	14600.	14600.	14600.	14600.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	09/14/72-09/14/72	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/14/72-09/14/72	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/14/72-09/14/72	1	160.	160.	160.	160.	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/14/72-09/14/72	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	09/14/72-09/14/72	1	11.3	11.3	11.3	11.3	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0174

NPS Station ID: APIS0174
LAT/LON: 46.641670/ -90.825005
Agency: 21WIDNR
Date Created: 08/03/78
Location: LAKE SUPERIOR AT CHEQ.BAY
FIPS State/County: 55003 WISCONSIN/ASHLAND
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 116
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 999
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: WISC + MINN DRAINAGE
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 04010301000206.32
RF3 Mile Point: 6.86
Distance from RF3: 0.98
On/Off RF3:
Description:
DATA FROM WISCONSIN DEPARTMENT OF NATURAL RESOURCES FISH SAMPLING PROGRAMS FOR MERCURY, PCBS, AND PESTICIDES
SAMPLE TAKEN FROM LAKE SUPERIOR AT CHEQ. BAY

Parameter Inventory for Station: APIS0174

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/10/70-08/08/74	32	631.5	611.469	851.	301.	27567.741	166.035	302.	566.	759.5	803.
00023	SAMPLE WEIGHT IN POUNDS	08/08/74-08/08/74	2	8.	8.	8.	8.	0.	0.	**	**	**	**
00024	SAMPLE LENGTH IN INCHES	06/10/70-08/08/74	30	8.75	10.57	17.4	6.5	13.504	3.675	7.	7.5	13.525	16.95
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	08/08/74-08/08/74	13	0.04	0.081	0.19	0.03	0.004	0.066	0.03	0.03	0.155	0.186
01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	08/08/74-08/08/74	13 ##	0.05	0.062	0.2	0.05	0.002	0.042	0.05	0.05	0.05	0.14
01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	08/08/74-08/08/74	13	0.48	0.458	0.64	0.28	0.008	0.089	0.32	0.405	0.505	0.6
34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	08/08/74-08/08/74	11	0.02	0.03	0.05	0.02	0.	0.014	0.02	0.02	0.05	0.05
39105	PERCENT FAT HEXANE EXTRACTION	08/01/74-08/08/74	16	3.3	3.925	10.3	1.5	8.218	2.867	1.5	1.55	5.3	10.3
39302	P P DDT IN TISSUE WET WGT (UG/G)	08/08/74-08/08/74	12	0.02	0.026	0.06	0.004	0.	0.021	0.004	0.006	0.04	0.06
39312	P P DDD IN TISSUE WET WGT (UG/G)	08/08/74-08/08/74	12	0.007	0.009	0.02	0.002	0.	0.007	0.002	0.003	0.018	0.02
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	08/08/74-08/08/74	12	0.045	0.057	0.15	0.01	0.002	0.042	0.013	0.02	0.085	0.138
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	08/08/74-08/08/74	12 ##	0.001	0.006	0.03	0.001	0.	0.009	0.001	0.001	0.009	0.024
39515	PCBS (MG/KG) FISH TISSUE MG/KG	08/01/74-08/08/74	24	0.1	0.122	0.31	0.	0.01	0.098	0.	0.031	0.2	0.3
39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	08/08/74-08/08/74	12 ##	0.001	0.001	0.003	0.001	0.	0.001	0.001	0.001	0.001	0.003
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	06/10/70-08/08/74	20	0.065	0.069	0.13	0.02	0.001	0.033	0.03	0.05	0.098	0.119
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/08/74-08/08/74	13	0.04	0.075	0.63	0.01	0.028	0.168	0.01	0.01	0.04	0.398
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/08/74-08/08/74	13	0.34	0.342	0.55	0.21	0.01	0.1	0.222	0.26	0.4	0.526
71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/08/74-08/08/74	13	17.	17.615	30.	12.	27.423	5.237	12.	12.5	21.	27.2
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	08/08/74-08/08/74	13	0.09	0.097	0.22	0.05	0.002	0.043	0.05	0.07	0.11	0.176
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	08/08/74-08/08/74	13	0.05	0.056	0.09	0.03	0.	0.019	0.03	0.04	0.075	0.086
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	06/10/70-08/08/74	31	4.	4.258	10.	1.	11.865	3.444	1.	1.	5.	10.
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	08/08/74-08/08/74	12 ##	0.001	0.001	0.005	0.001	0.	0.001	0.001	0.001	0.001	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

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

Station Inventory for Station: APIS0175

NPS Station ID: APIS0175
LAT/LON: 46.930838/ -90.827781
Agency: 112WRD
Date Created: 03/10/90
Location: RASPBERRY RIVER NEAR RED CLIFF, WI
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 040262155
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 2.50
On/Off RF1:
RF3 Index: 04010301000416.64
RF3 Mile Point: 16.63
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0175

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/89-08/22/89	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/89-08/22/89	1	219.	219.	219.	219.	0.	0.	**	**	**	**
39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	08/22/89-08/22/89	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/22/89-08/22/89	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	08/22/89-08/22/89	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0176

NPS Station ID: APIS0176
LAT/LON: 46.813337/ -90.830003
Agency: 11FWS
Date Created: 10/05/77
Location: LAKE SUPERIOR AT BAYFIELD
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 022
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: WISCONSIN & MINNESOTA DRAIN
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 04010301005900.00
RF3 Mile Point: 0.00
Distance from RF3: 0.01
On/Off RF3:
Description:
WHOLE BODY FISH COMPOSITE SAM. RESIDUE DATA. FWS NMP TRENDSTA

Parameter Inventory for Station: APIS0176

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/01/69-10/01/86	41	291.	204.244	302.	61.	13394.039	115.733	61.	62.	301.	301.
00023p	SAMPLE WEIGHT IN POUNDS	10/01/69-10/01/84	38	1.8	2.147	6.5	0.3	3.401	1.844	0.3	0.4	3.225	5.02
00024p	SAMPLE LENGTH IN INCHES	10/01/69-10/01/84	38	17.85	16.824	27.	8.4	34.894	5.907	10.09	10.6	21.925	24.88
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	10/01/77-10/01/86	14	0.54	4.271	32.	0.19	96.608	9.829	0.19	0.308	0.805	27.
01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	10/01/77-10/01/86	14	0.39	5.971	42.	0.26	202.75	14.239	0.265	0.32	0.502	39.5
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	10/01/86-10/01/86	3	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
34684p	DIELDRIN TISMG/KG	10/01/69-10/01/86	41	0.04	0.048	0.25	0.01	0.002	0.049	0.01	0.02	0.05	0.08
34685p	ENDRIN WET WGTTISMG/KG	10/01/70-10/01/86	38	0.01	0.016	0.07	0.01	0.	0.015	0.01	0.01	0.01	0.041
34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	10/01/86-10/01/86	3	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
34687p	HEPTACHLOR WET WGTTISMG/KG	10/01/69-10/01/86	41	0.01	0.011	0.04	0.01	0.	0.005	0.01	0.01	0.01	0.01
34688	HEXACHLOROBENZENE WET WGTTISMG/KG	10/01/77-10/01/86	14	0.01	0.011	0.02	0.01	0.	0.003	0.01	0.01	0.01	0.015
34691p	TOXAPHENE WET WGTTISMG/KG	10/01/71-10/01/86	34	0.1	0.632	5.2	0.1	0.997	0.999	0.1	0.1	0.9	1.7
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/01/77-10/01/86	14	0.02	0.024	0.05	0.01	0.	0.011	0.01	0.02	0.03	0.045
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/01/77-10/01/86	14	0.01	0.011	0.02	0.01	0.	0.003	0.01	0.01	0.01	0.015
39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	10/01/77-10/01/86	14	0.03	0.026	0.05	0.01	0.	0.012	0.01	0.018	0.03	0.045
39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	10/01/77-10/01/86	14	0.035	0.041	0.1	0.01	0.001	0.025	0.01	0.02	0.06	0.08
39074p	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	10/01/69-10/01/86	21	0.02	0.022	0.05	0.01	0.	0.012	0.01	0.01	0.03	0.048
39105p	PERCENT FAT HEXANE EXTRACTION	10/01/69-10/01/86	41	12.3	11.993	20.4	3.6	9.497	3.082	7.38	10.85	13.7	15.42
39290p	DDT TOTAL IN TISSUE WET WGT BASIS (UG/G)	10/01/69-10/01/86	41	0.18	0.252	1.3	0.01	0.074	0.272	0.01	0.03	0.375	0.628
39781	LINDANE AQUATIC ORGANISMS WT WGT BASIS(UG/G)	10/01/86-10/01/86	3	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	10/01/77-10/01/84	11	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
70320	MOISTURE CONTENT (PERCENT OF TOTAL WET WEIGHT)	10/01/77-10/01/86	14	70.	70.	76.	62.	14.462	3.803	63.5	68.25	72.5	75.5
71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	10/01/77-10/01/86	14	0.095	0.113	0.4	0.03	0.01	0.098	0.035	0.05	0.125	0.3
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/01/77-10/01/86	14	0.1	0.079	0.12	0.01	0.002	0.039	0.01	0.048	0.1	0.11
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/01/79-10/01/86	12	0.495	0.523	0.86	0.25	0.026	0.162	0.274	0.455	0.587	0.821
71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/01/79-10/01/86	12	14.91	14.867	18.94	11.5	7.695	2.774	11.503	12.195	17.003	18.91
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/01/77-10/01/86	14	0.025	0.029	0.06	0.009	0.	0.018	0.01	0.01	0.043	0.06
79178	PCB-1242 TISDRYWTMG/KG	10/01/73-10/01/77	11	0.1	0.182	1.	0.1	0.074	0.271	0.1	0.1	0.1	0.82
79179p	PCB-1254 TISDRYWTMG/KG	10/01/69-10/01/86	41	0.3	0.777	3.47	0.1	0.902	0.95	0.1	0.1	1.15	2.7
79182	PCB-1248 TISDRYWTMG/KG	10/01/77-10/01/86	14	0.1	0.1	0.1	0.1	0.	0.	0.1	0.1	0.1	0.1
79183p	PCB-1260 TISDRYWTMG/KG	10/01/73-10/01/86	23	0.1	0.222	1.5	0.1	0.09	0.3	0.1	0.1	0.2	0.46
81312	POLYCHLORINATEDBIPHENYLS FISH TISSUE WET WGT MG/KG	10/01/86-10/01/86	3	0.3	0.3	0.4	0.2	0.01	0.1	**	**	**	**
81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	10/01/81-10/01/86	9	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
81823	PENTACHLOROANISOLE(PCA)INFISH TISSUE WET WGT MG/KG	10/01/81-10/01/86	9	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
81896p	DDE TOTAL IN TISSUE WET WEIGHT MG/KG	10/01/69-10/01/86	41	0.34	0.489	1.8	0.03	0.167	0.408	0.084	0.185	0.73	1.142
81944	DDT(INCLUDES DDE & DDD) IN TISSUE WET WEIGHT MG/KG	10/01/86-10/01/86	3	0.15	0.157	0.17	0.15	0.	0.012	**	**	**	**

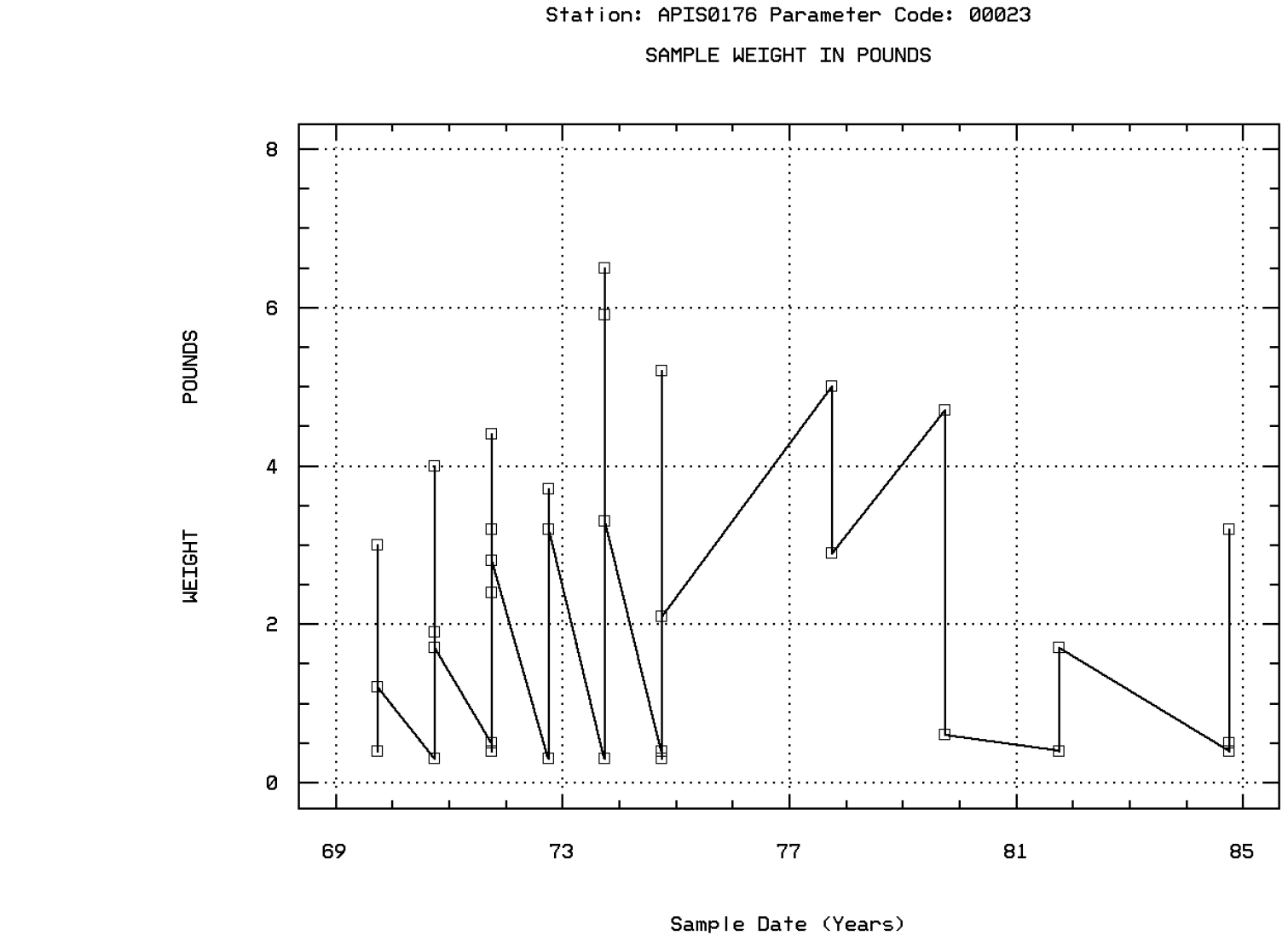
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: APIS0176

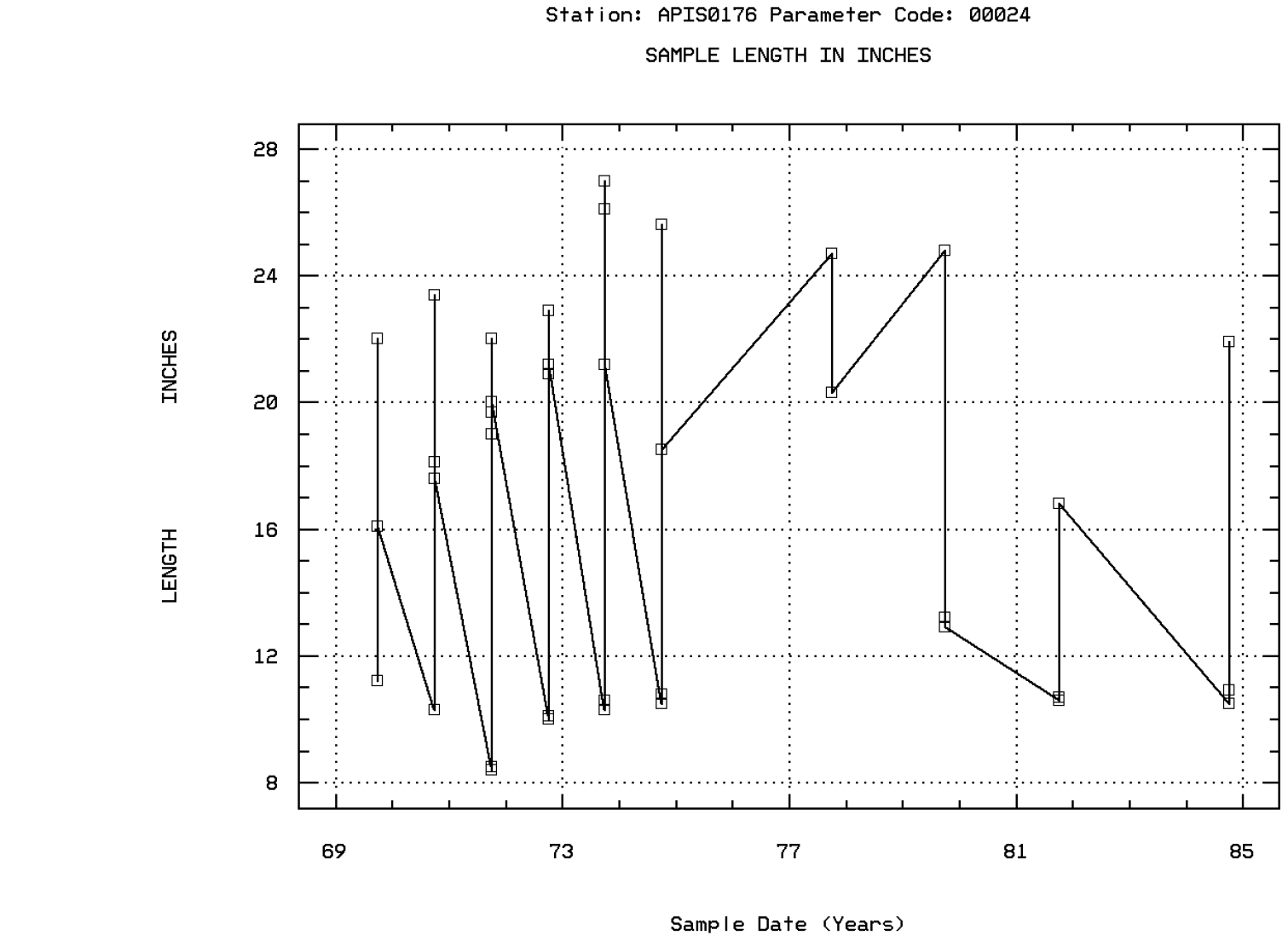
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
81987p	TOTAL SEDIMENT PARTICLE SIZE %COARSER THAN 9.00PHI	10/01/69-10/01/86	41	0.06	0.074	0.44	0.01	0.006	0.079	0.01	0.02	0.11	0.15
82004	DACTHAL IN TISSUE SAMPLE WET WEIGHT MG/KG	10/01/79-10/01/86	12	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	10/01/79-10/01/86	12	0.02	0.018	0.03	0.01	0.	0.008	0.01	0.01	0.02	0.03

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

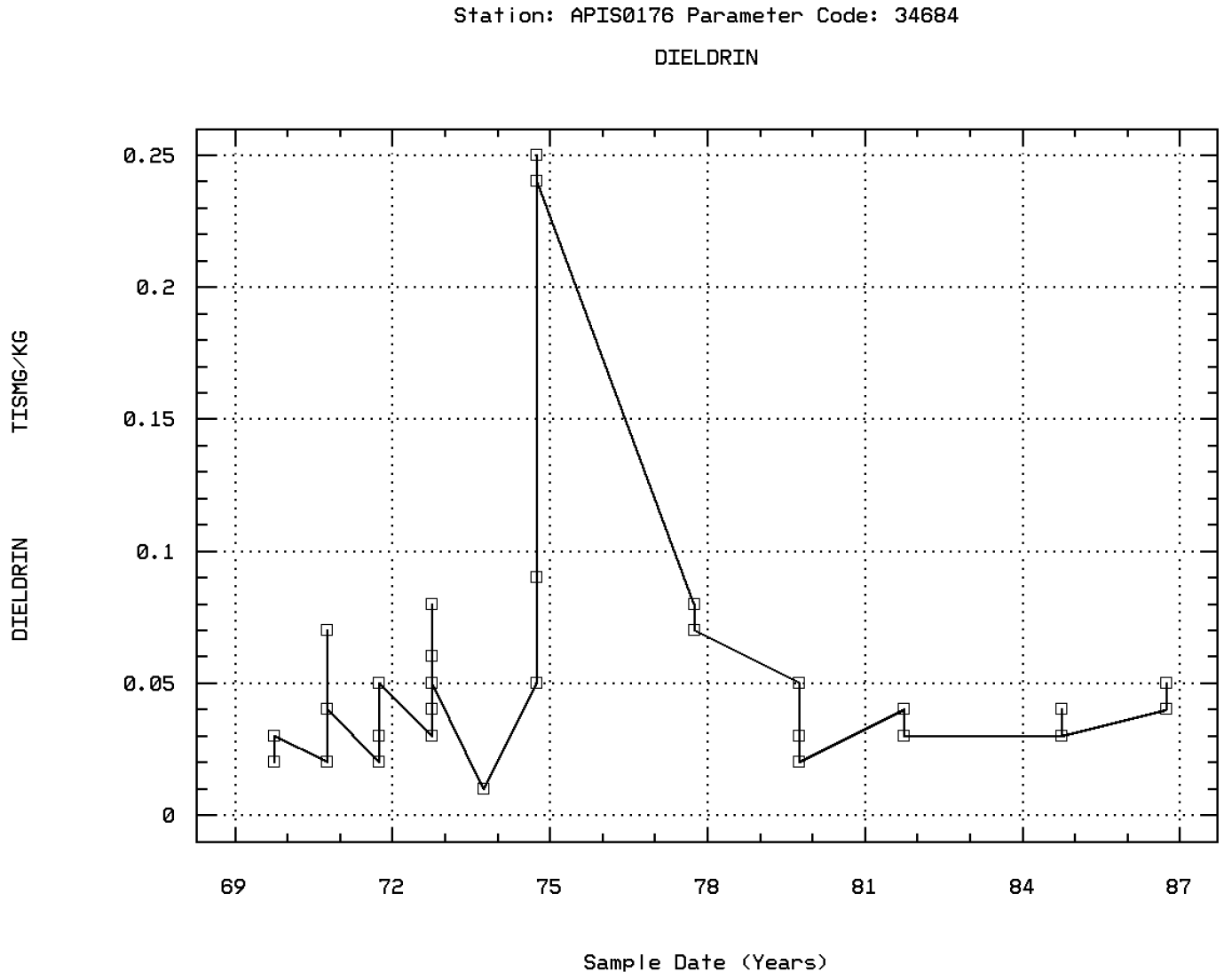
********** No EPA Water Quality Criteria exist to compare against the data at this station. **********



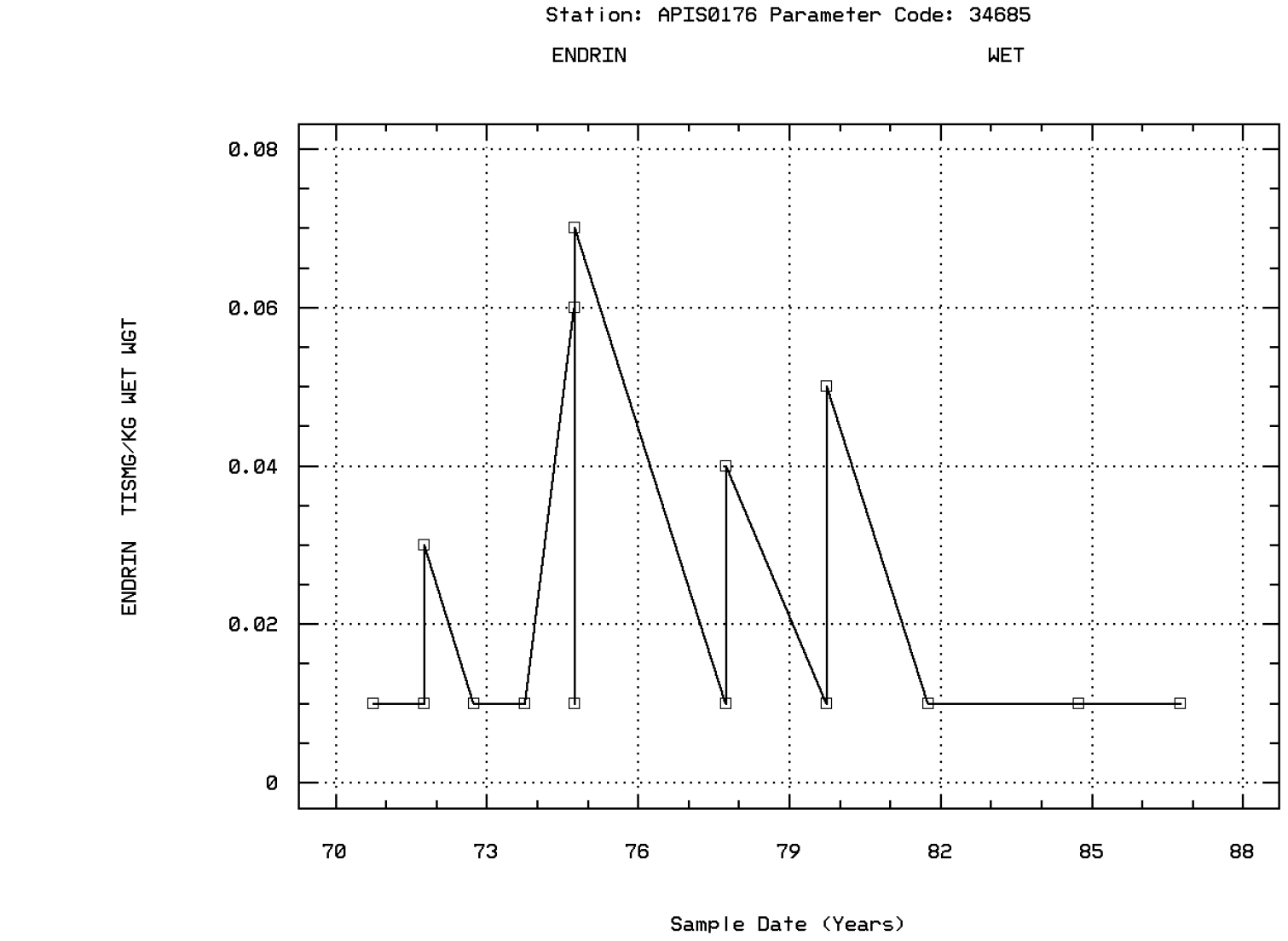
LAKE SUPERIOR AT BAYFIELD



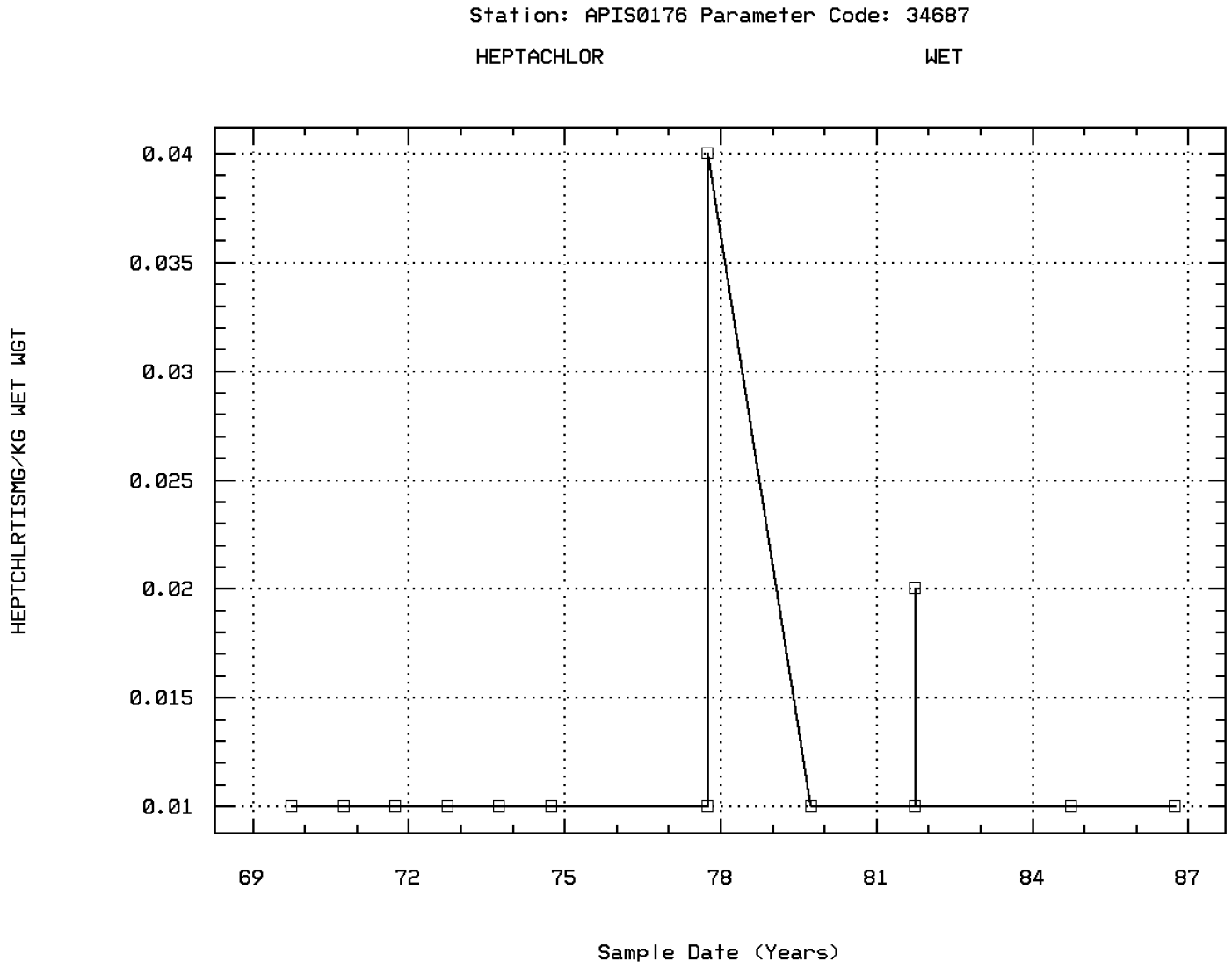
LAKE SUPERIOR AT BAYFIELD



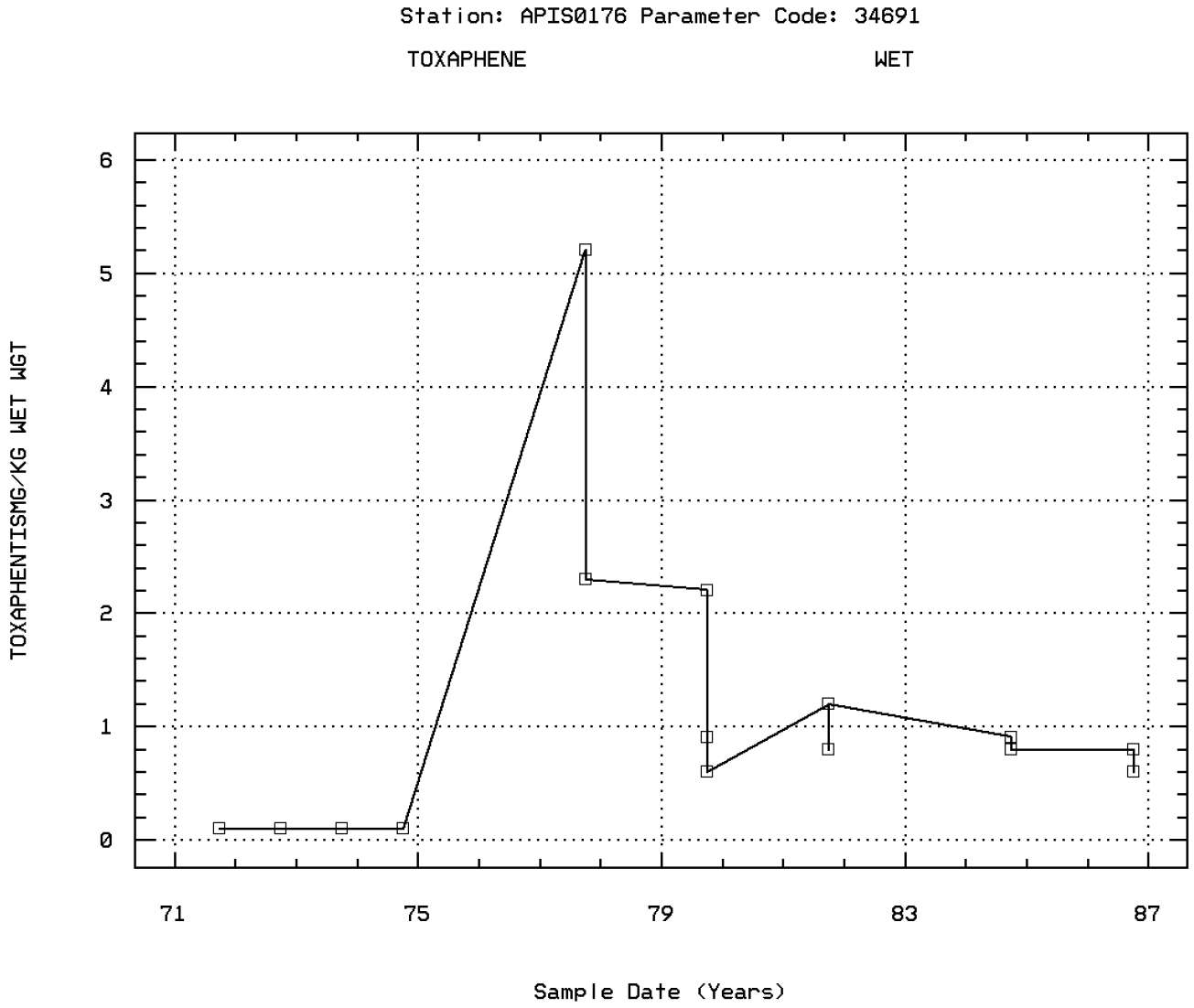
LAKE SUPERIOR AT BAYFIELD



LAKE SUPERIOR AT BAYFIELD



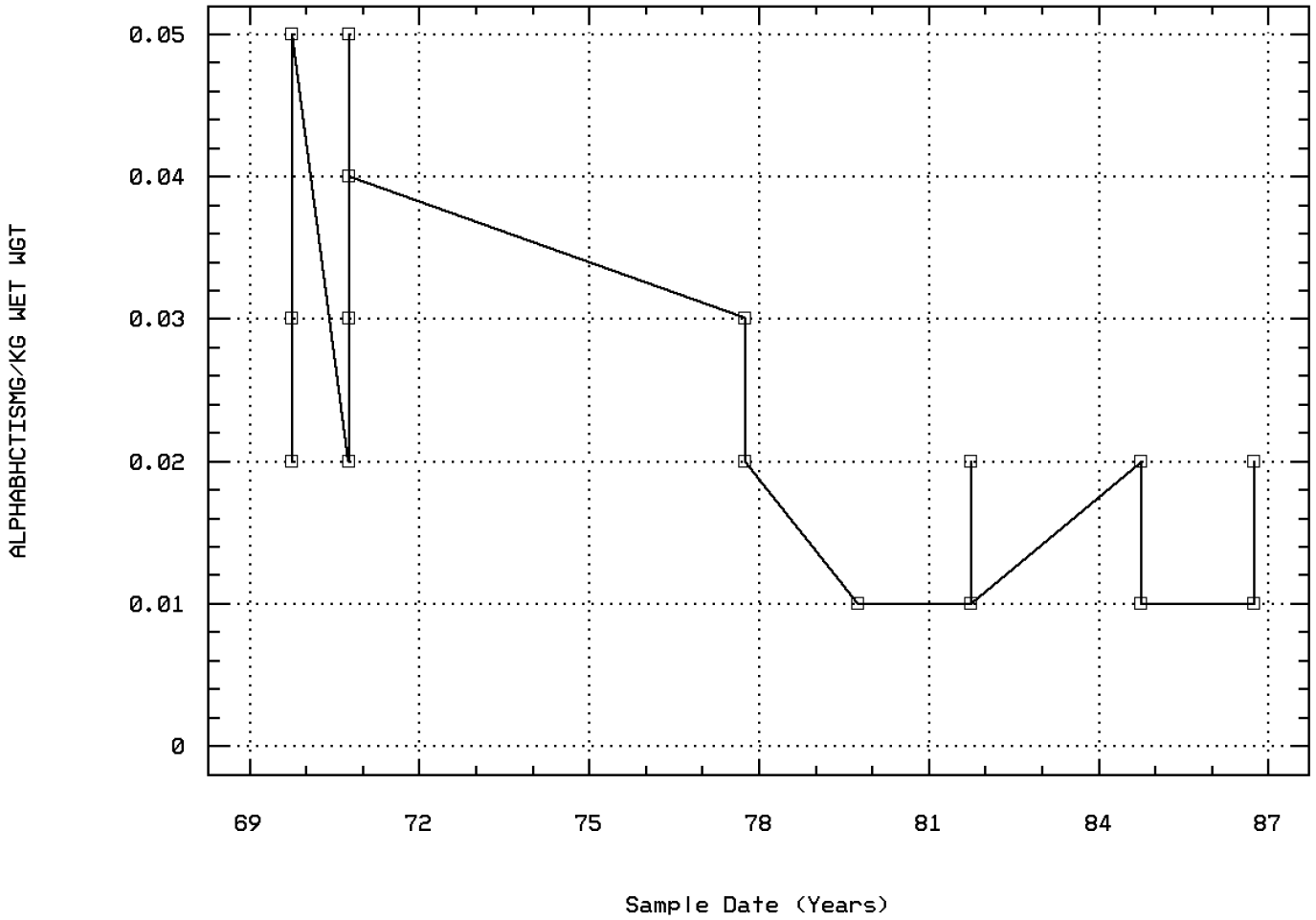
LAKE SUPERIOR AT BAYFIELD



LAKE SUPERIOR AT BAYFIELD

Station: APIS0176 Parameter Code: 39074

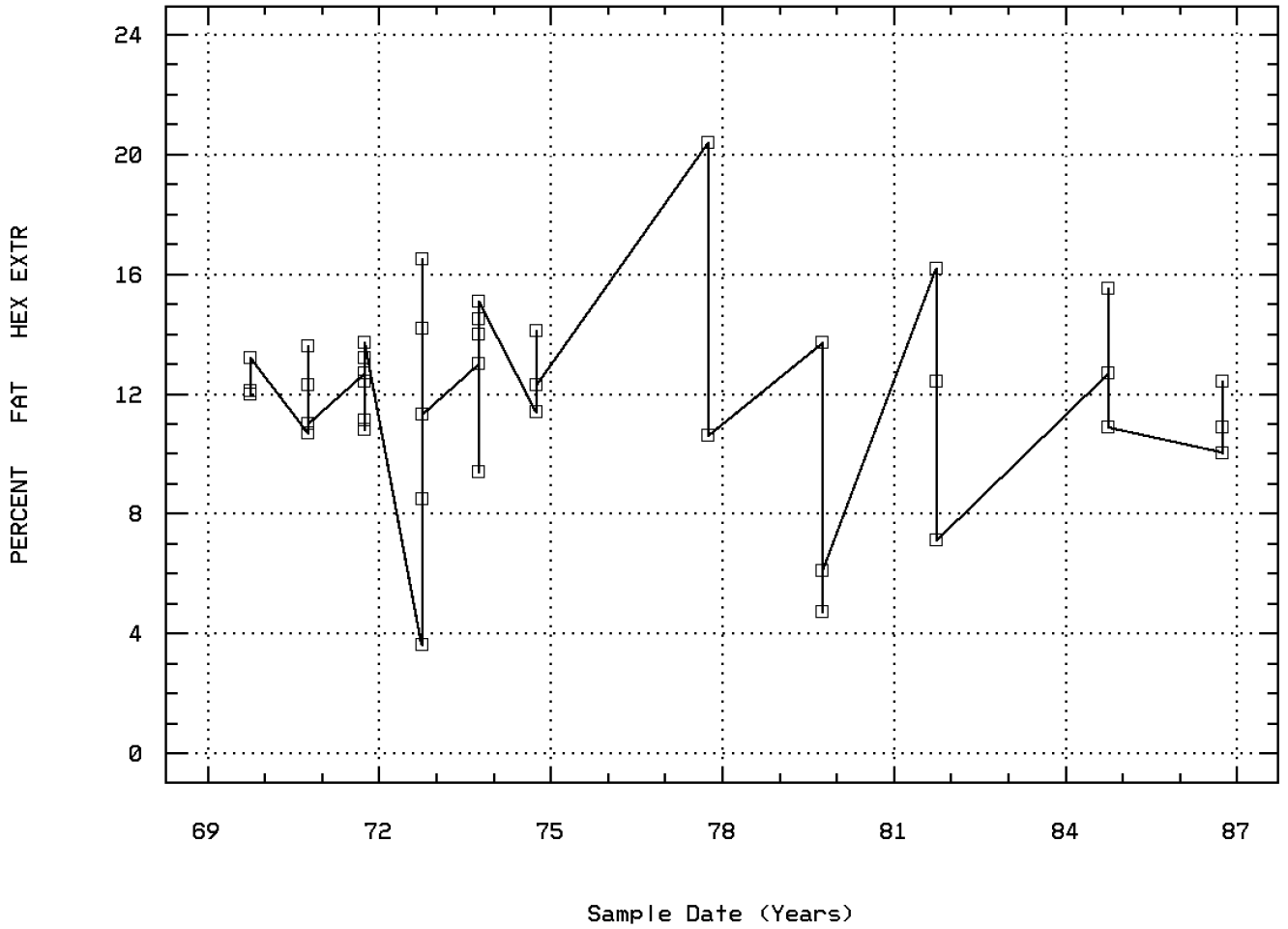
BHC-ALPHA ISOMER,TISSUE UG/G WET



LAKE SUPERIOR AT BAYFIELD

Station: APIS0176 Parameter Code: 39105

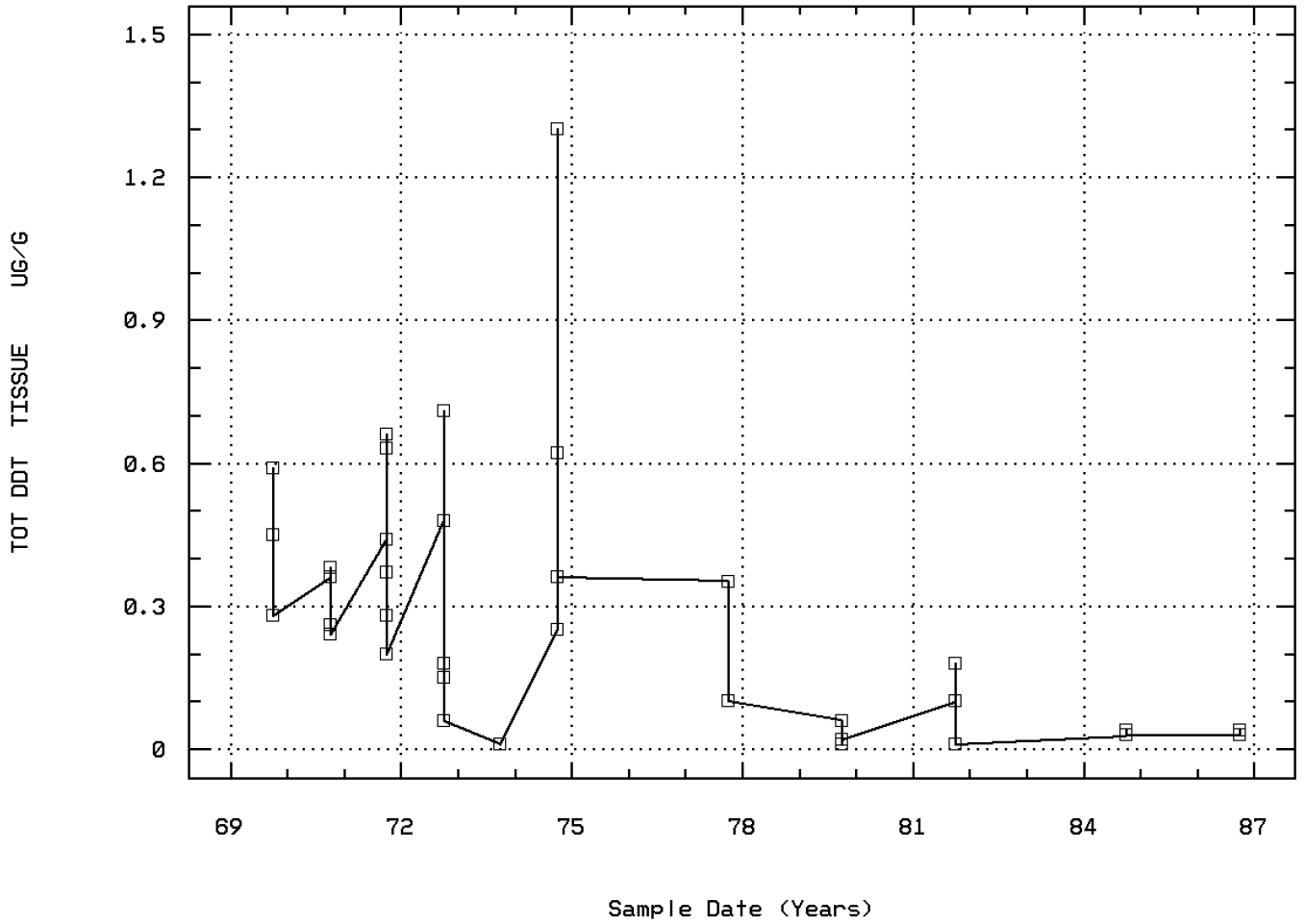
PERCENT FAT HEXANE EXTRACTION



LAKE SUPERIOR AT BAYFIELD

Station: APIS0176 Parameter Code: 39290

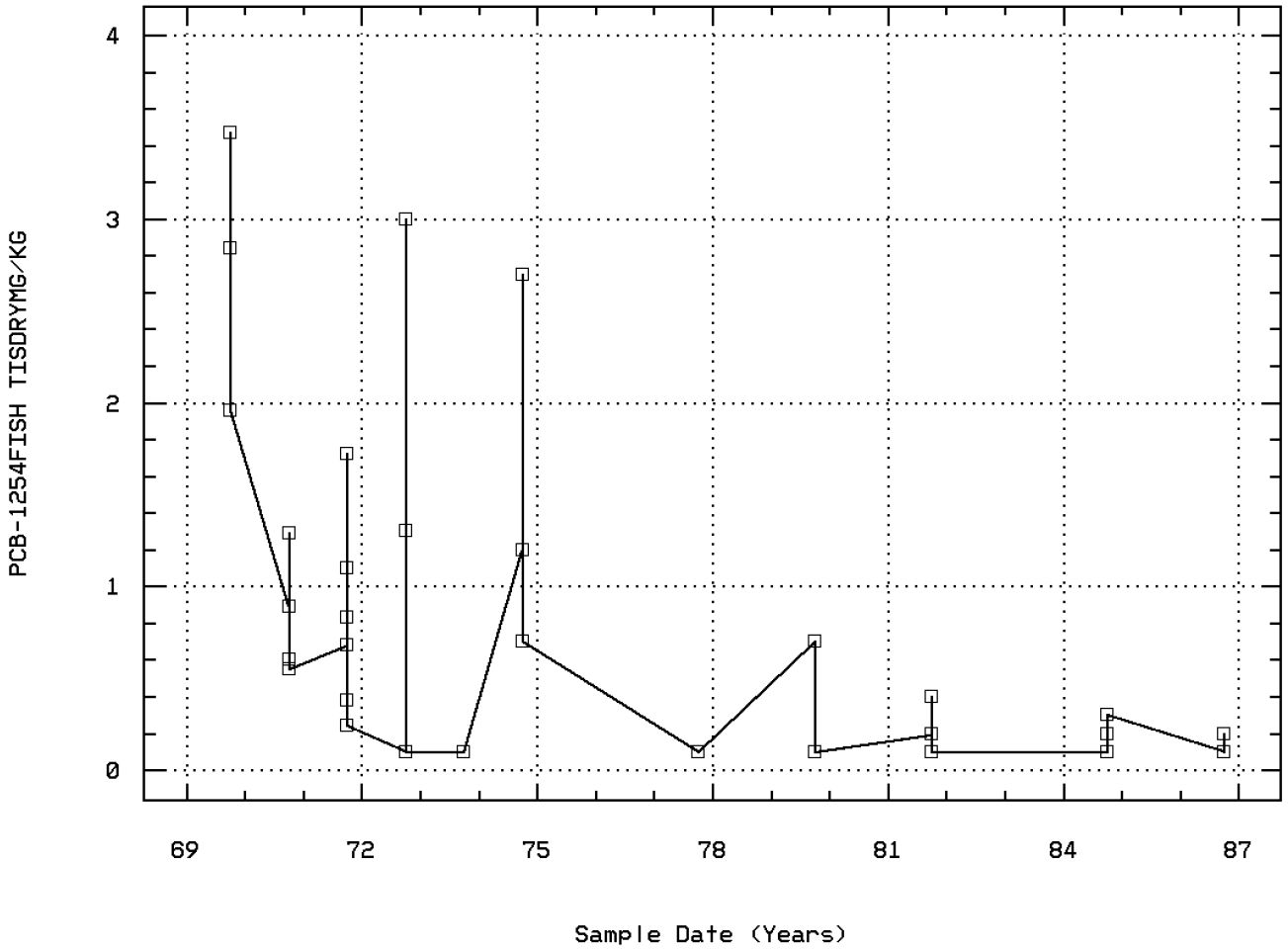
DDT TOTAL IN TISSUE WET WGT BASIS (UG/G



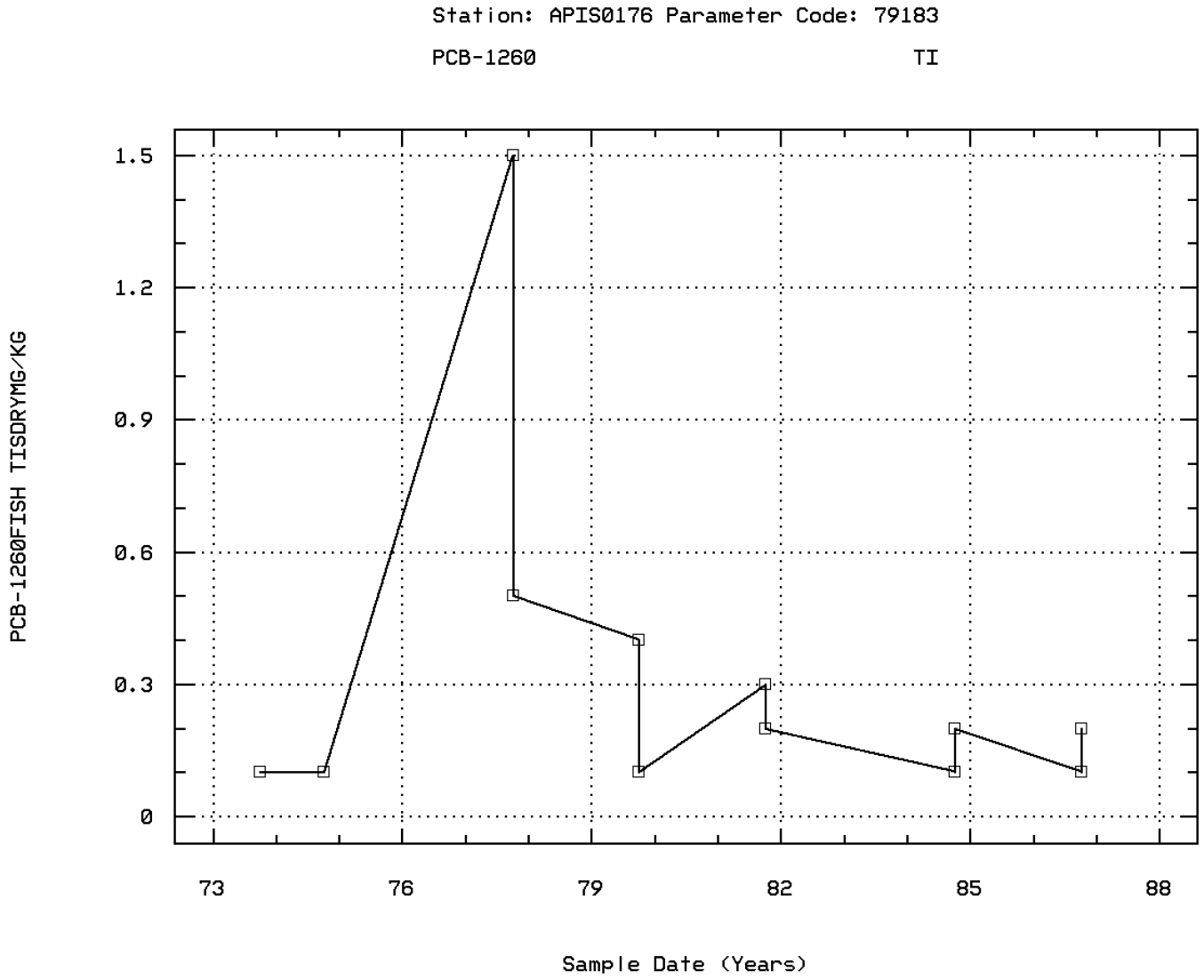
LAKE SUPERIOR AT BAYFIELD

Station: APIS0176 Parameter Code: 79179

PCB-1254 TI



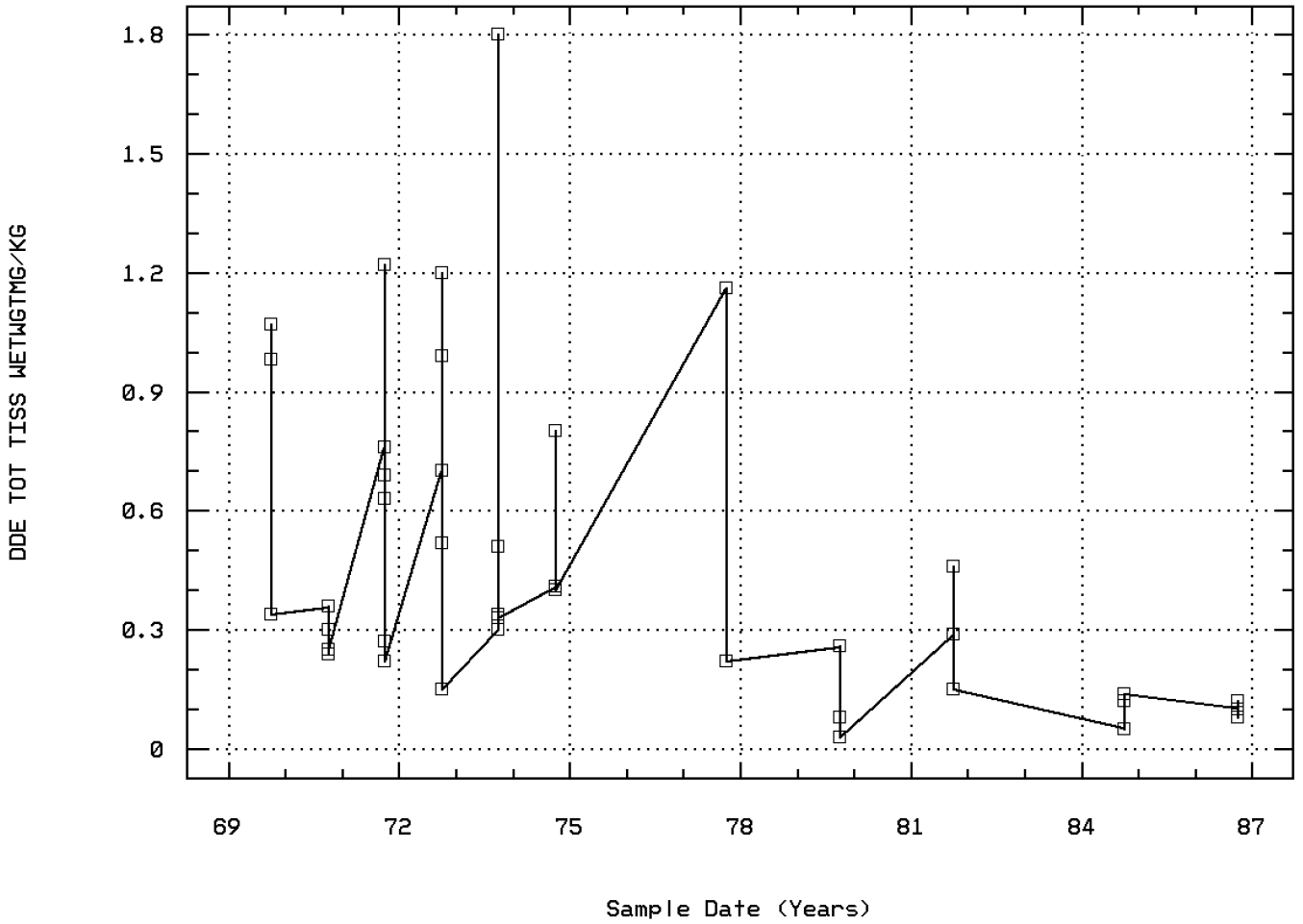
LAKE SUPERIOR AT BAYFIELD



LAKE SUPERIOR AT BAYFIELD

Station: APIS0176 Parameter Code: 81896

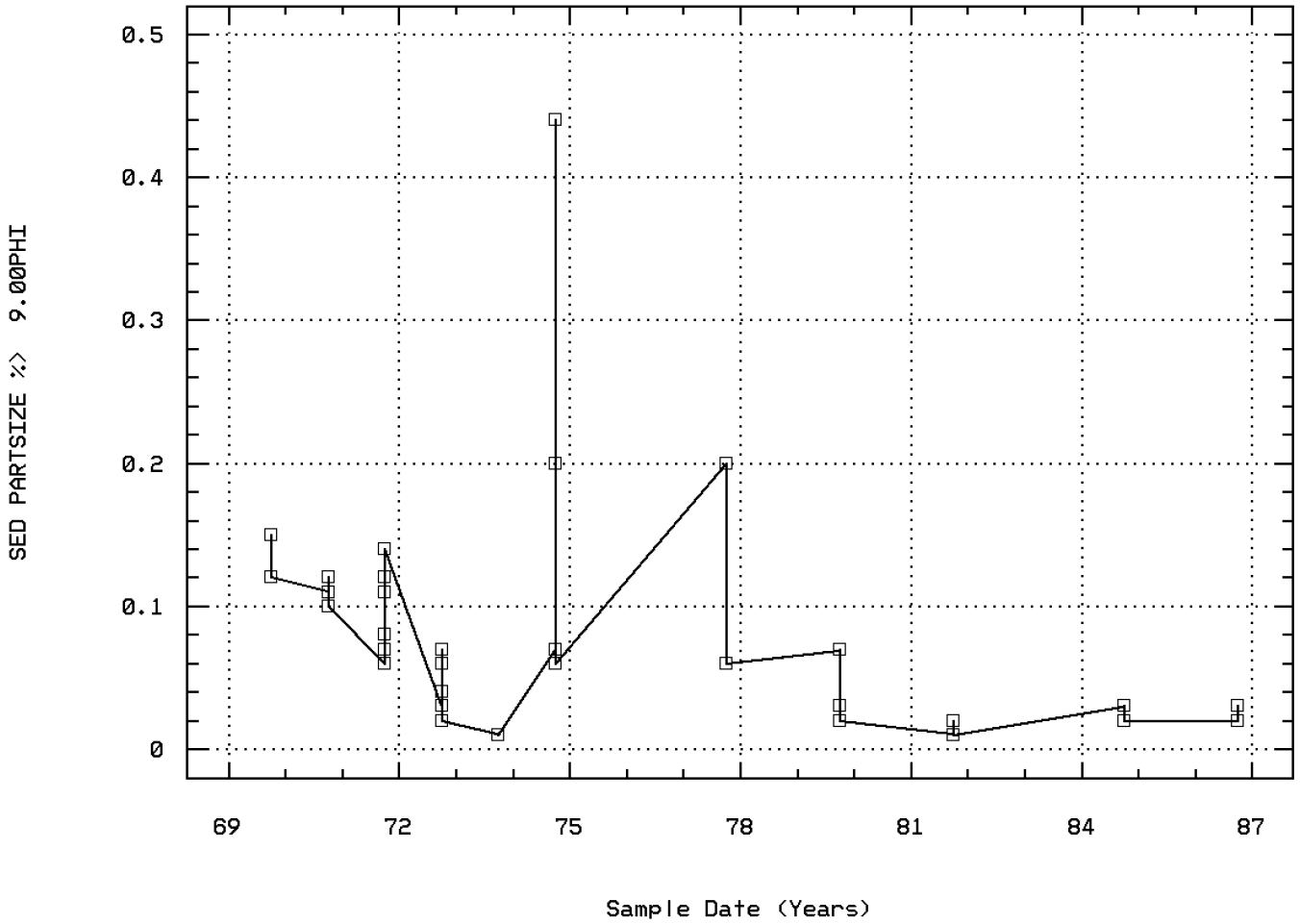
DDE TOTAL IN TISSUE WET W



LAKE SUPERIOR AT BAYFIELD

Station: APIS0176 Parameter Code: 81987

TOTAL SEDIMENT PARTICLE SIZE %COARSER T

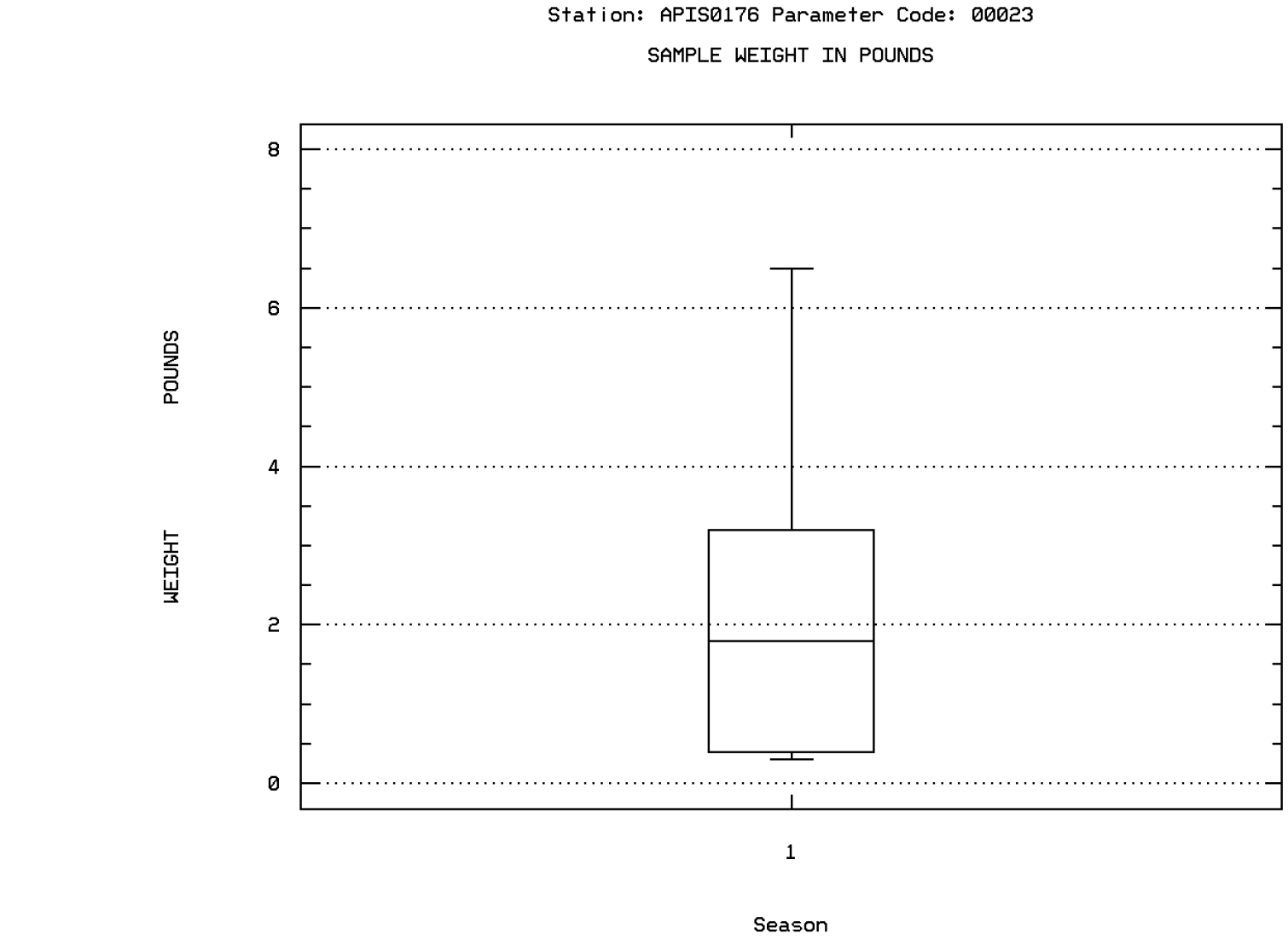


LAKE SUPERIOR AT BAYFIELD

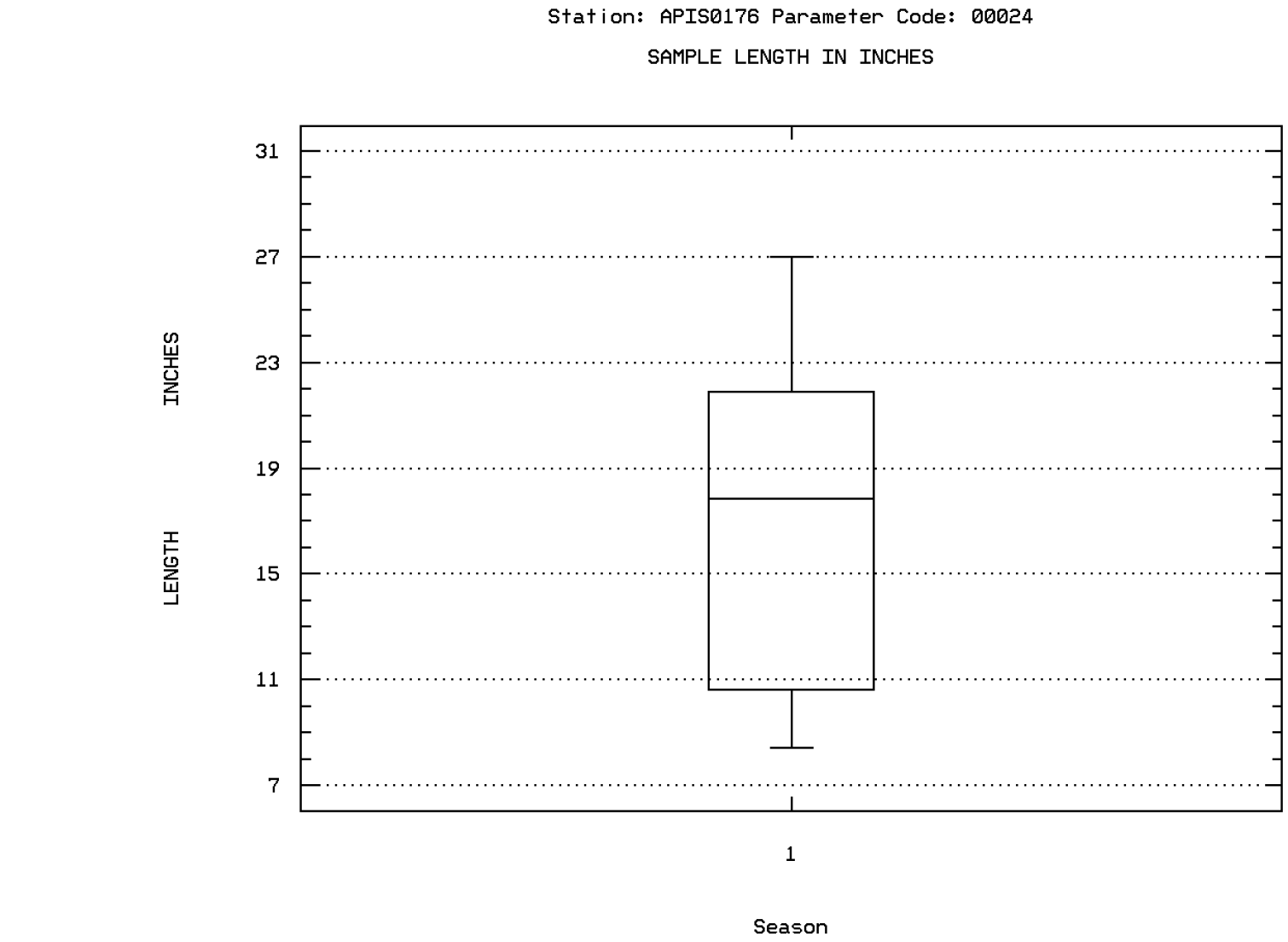
Seasonal Analysis for Season #1: 7/15 to 11/30 - Station APIS0176

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/01/69-10/01/86	41	291.	204.244	302.	61.	13394.039	115.733	61.	62.	301.	301.
00023p	SAMPLE WEIGHT IN POUNDS	10/01/69-10/01/84	38	1.8	2.147	6.5	0.3	3.401	1.844	0.3	0.4	3.225	5.02
00024p	SAMPLE LENGTH IN INCHES	10/01/69-10/01/84	38	17.85	16.824	27.	8.4	34.894	5.907	10.09	10.6	21.925	24.88
01004p	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	10/01/77-10/01/86	14	0.54	4.271	32.	0.19	96.608	9.829	0.19	0.308	0.805	27.
01149p	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	10/01/77-10/01/86	14	0.39	5.971	42.	0.26	202.75	14.239	0.265	0.32	0.502	39.5
34684p	DIELDRIN TISMG/KG	10/01/69-10/01/86	41	0.04	0.048	0.25	0.01	0.002	0.049	0.01	0.02	0.05	0.08
34685p	ENDRIN WET WGTTISMG/KG	10/01/70-10/01/86	38	0.01	0.016	0.07	0.01	0.	0.015	0.01	0.01	0.01	0.041
34687p	HEPTACHLOR WET WGTTISMG/KG	10/01/69-10/01/86	41	0.01	0.011	0.04	0.01	0.	0.005	0.01	0.01	0.01	0.01
34688p	HEXACHLOROBENZENE WET WGTTISMG/KG	10/01/77-10/01/86	14	0.01	0.011	0.02	0.01	0.	0.003	0.01	0.01	0.01	0.015
34691p	TOXAPHENE WET WGTTISMG/KG	10/01/71-10/01/86	34	0.1	0.632	5.2	0.1	0.997	0.999	0.1	0.1	0.9	1.7
39063p	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/01/77-10/01/86	14	0.02	0.024	0.05	0.01	0.	0.011	0.01	0.02	0.03	0.045
39066p	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/01/77-10/01/86	14	0.01	0.011	0.02	0.01	0.	0.003	0.01	0.01	0.01	0.015
39069p	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	10/01/77-10/01/86	14	0.03	0.026	0.05	0.01	0.	0.012	0.01	0.018	0.03	0.045
39072p	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	10/01/77-10/01/86	14	0.035	0.041	0.1	0.01	0.001	0.025	0.01	0.02	0.06	0.08
39074p	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	10/01/69-10/01/86	21	0.02	0.022	0.05	0.01	0.	0.012	0.01	0.01	0.03	0.048
39105p	PERCENT FAT HEXANE EXTRACTION	10/01/69-10/01/86	41	12.3	11.993	20.4	3.6	9.497	3.082	7.38	10.85	13.7	15.42
39290p	DDT TOTAL IN TISSUE WET WGT BASIS (UG/G)	10/01/69-10/01/86	41	0.18	0.252	1.3	0.01	0.074	0.272	0.01	0.03	0.375	0.628
39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	10/01/77-10/01/84	11	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
70320p	MOISTURE CONTENT (PERCENT OF TOTAL WET WEIGHT)	10/01/77-10/01/86	14	70.	70.	76.	62.	14.462	3.803	63.5	68.25	72.5	75.5
71935p	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	10/01/77-10/01/86	14	0.095	0.113	0.4	0.03	0.01	0.098	0.035	0.05	0.125	0.3
71936p	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/01/77-10/01/86	14	0.1	0.079	0.12	0.01	0.002	0.039	0.01	0.048	0.1	0.11
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/01/79-10/01/86	12	0.495	0.523	0.86	0.25	0.026	0.162	0.274	0.455	0.587	0.821
71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/01/79-10/01/86	12	14.91	14.867	18.94	11.5	7.695	2.774	11.503	12.195	17.003	18.91
71940p	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/01/77-10/01/86	14	0.025	0.029	0.06	0.009	0.	0.018	0.01	0.01	0.043	0.06
79179p	PCB-1254 TISDRYWTMG/KG	10/01/69-10/01/86	41	0.3	0.777	3.47	0.1	0.902	0.95	0.1	0.1	1.15	2.7
79182p	PCB-1248 TISDRYWTMG/KG	10/01/77-10/01/86	14	0.1	0.1	0.1	0.1	0.	0.	0.1	0.1	0.1	0.1
79183p	PCB-1260 TISDRYWTMG/KG	10/01/73-10/01/86	23	0.1	0.222	1.5	0.1	0.09	0.3	0.1	0.1	0.2	0.46
81896p	DDE TOTAL IN TISSUE WET WEIGHT MG/KG	10/01/69-10/01/86	41	0.34	0.489	1.8	0.03	0.167	0.408	0.084	0.185	0.73	1.142
81987p	TOTAL SEDIMENT PARTICLE SIZE %COARSER THAN 9.00PHI	10/01/69-10/01/86	41	0.06	0.074	0.44	0.01	0.006	0.079	0.01	0.02	0.11	0.15
82004	DACTHAL IN TISSUE SAMPLE WET WEIGHT MG/KG	10/01/79-10/01/86	12	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	10/01/79-10/01/86	12	0.02	0.018	0.03	0.01	0.	0.008	0.01	0.01	0.02	0.03

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



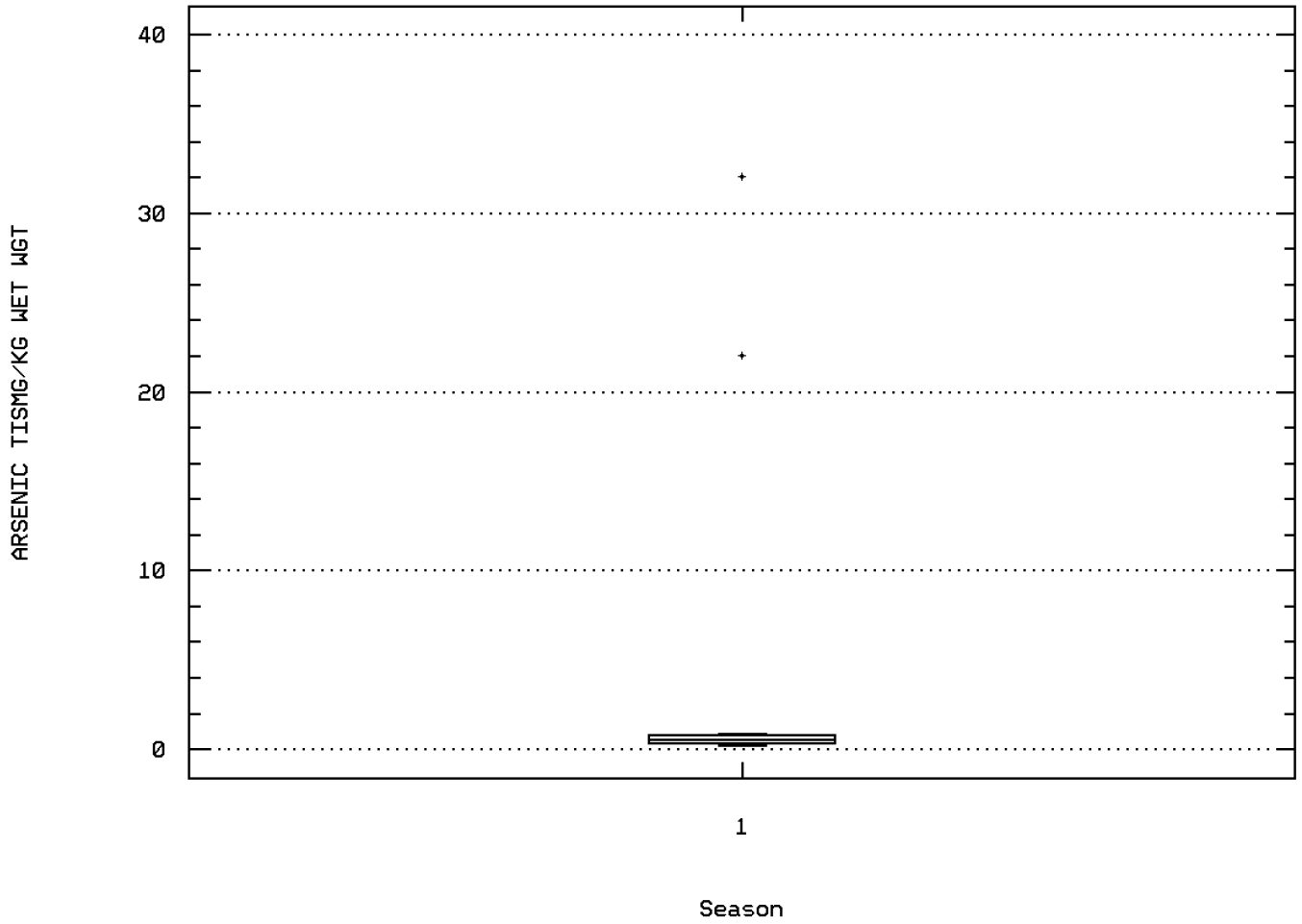
LAKE SUPERIOR AT BAYFIELD



LAKE SUPERIOR AT BAYFIELD

Station: APIS0176 Parameter Code: 01004

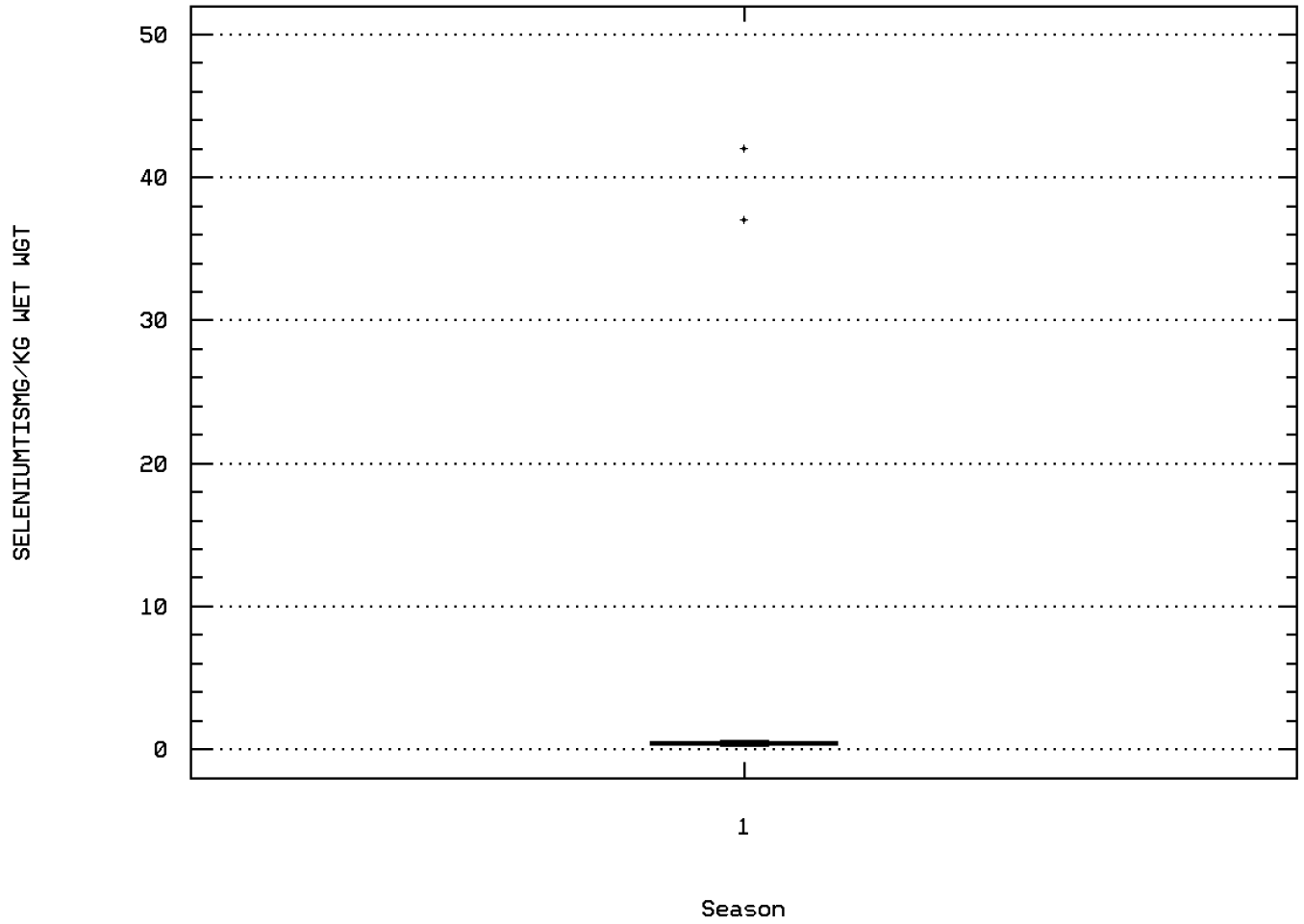
ARSENIC TOTAL IN FISH OR ANIMAL WET WT



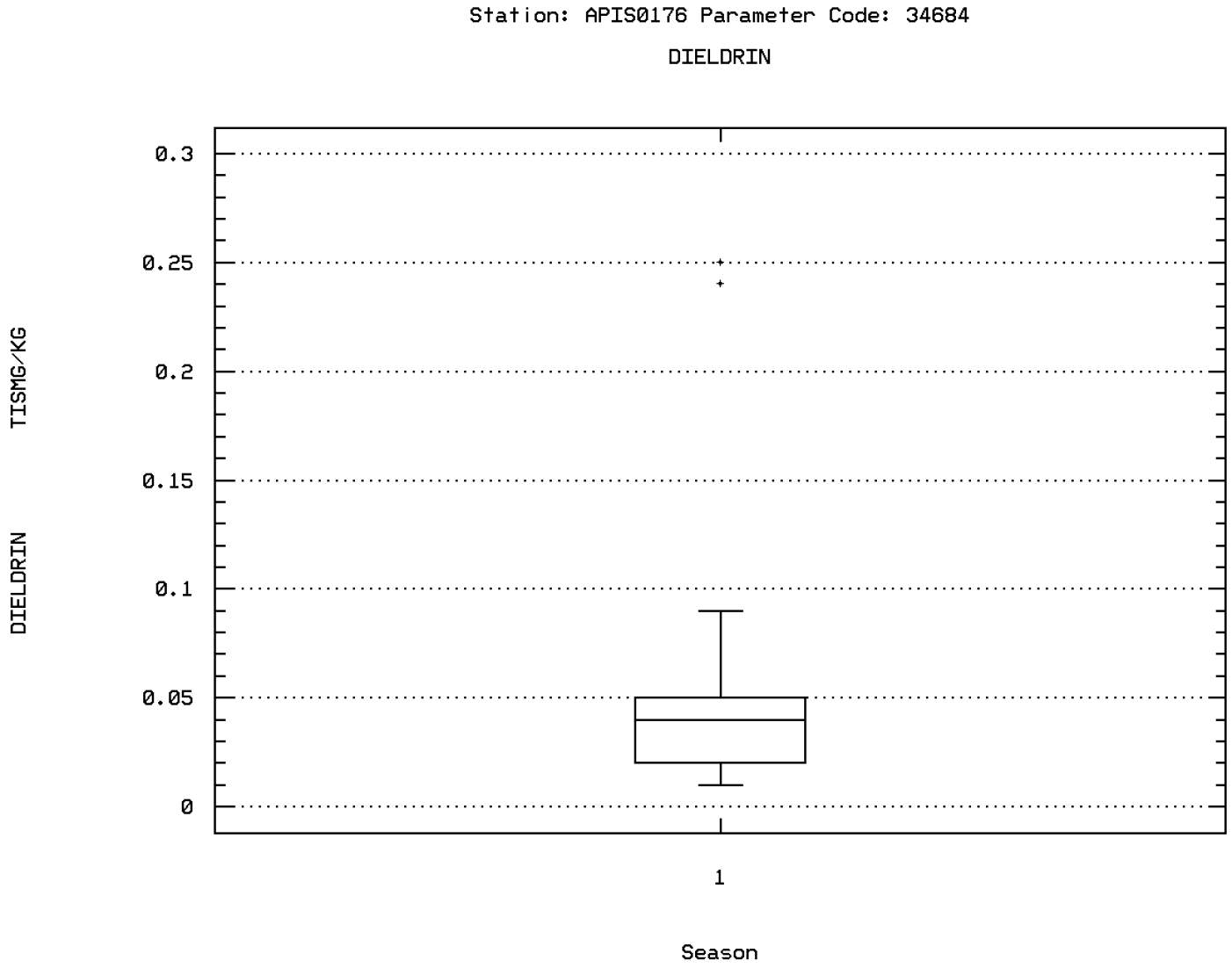
LAKE SUPERIOR AT BAYFIELD

Station: APIS0176 Parameter Code: 01149

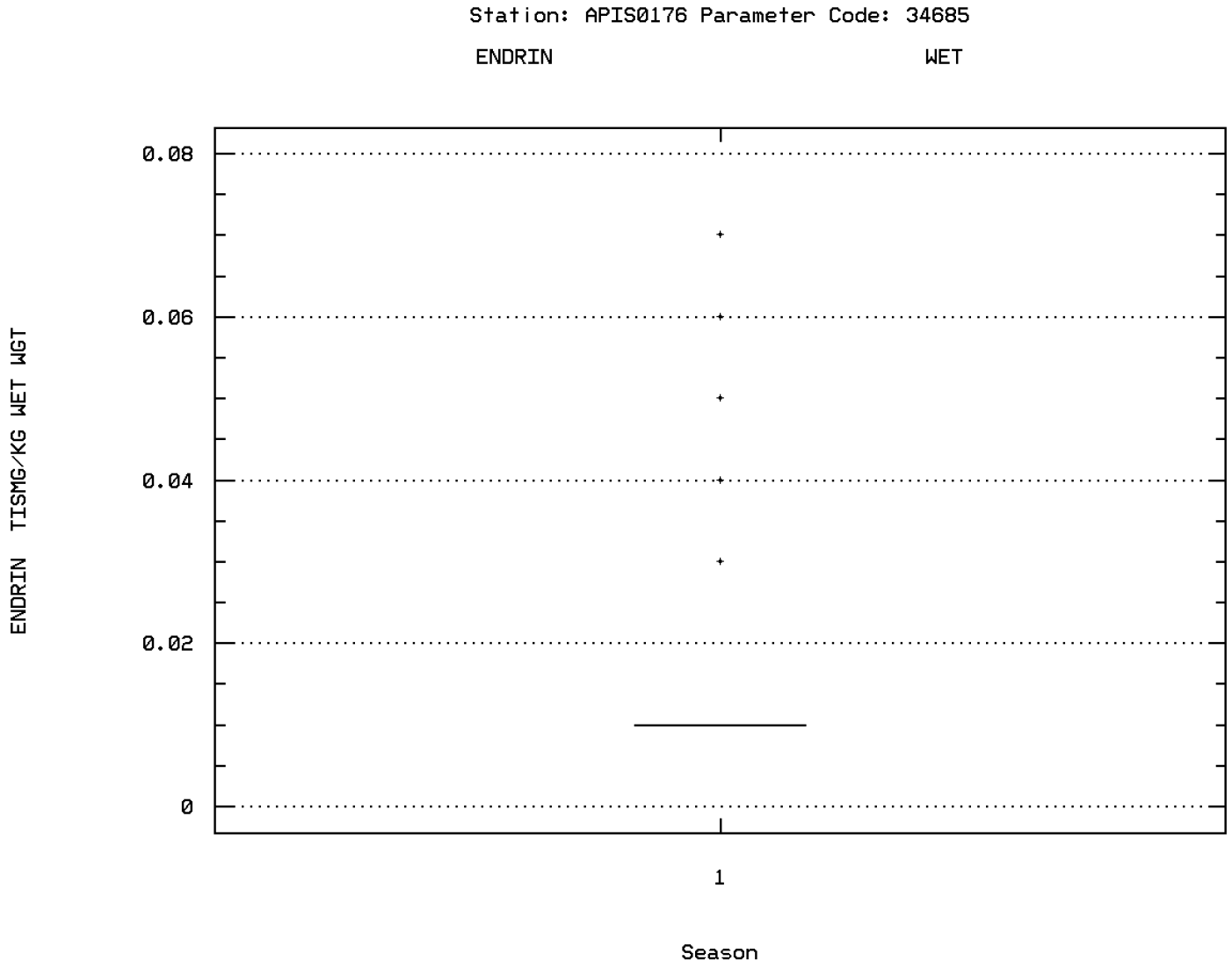
SELENIUM, TOTAL IN FISH OR ANIMALS WET



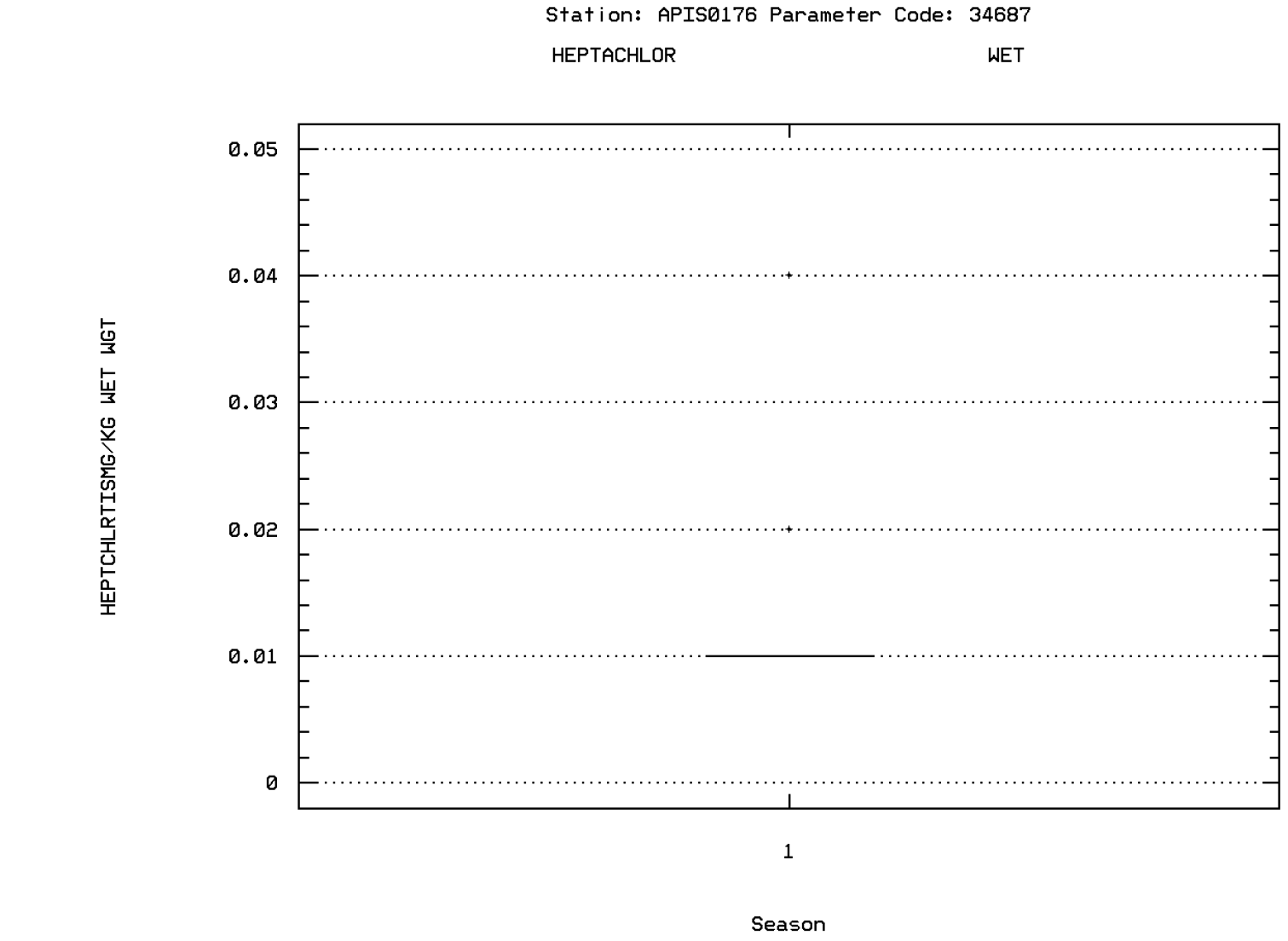
LAKE SUPERIOR AT BAYFIELD



LAKE SUPERIOR AT BAYFIELD



LAKE SUPERIOR AT BAYFIELD

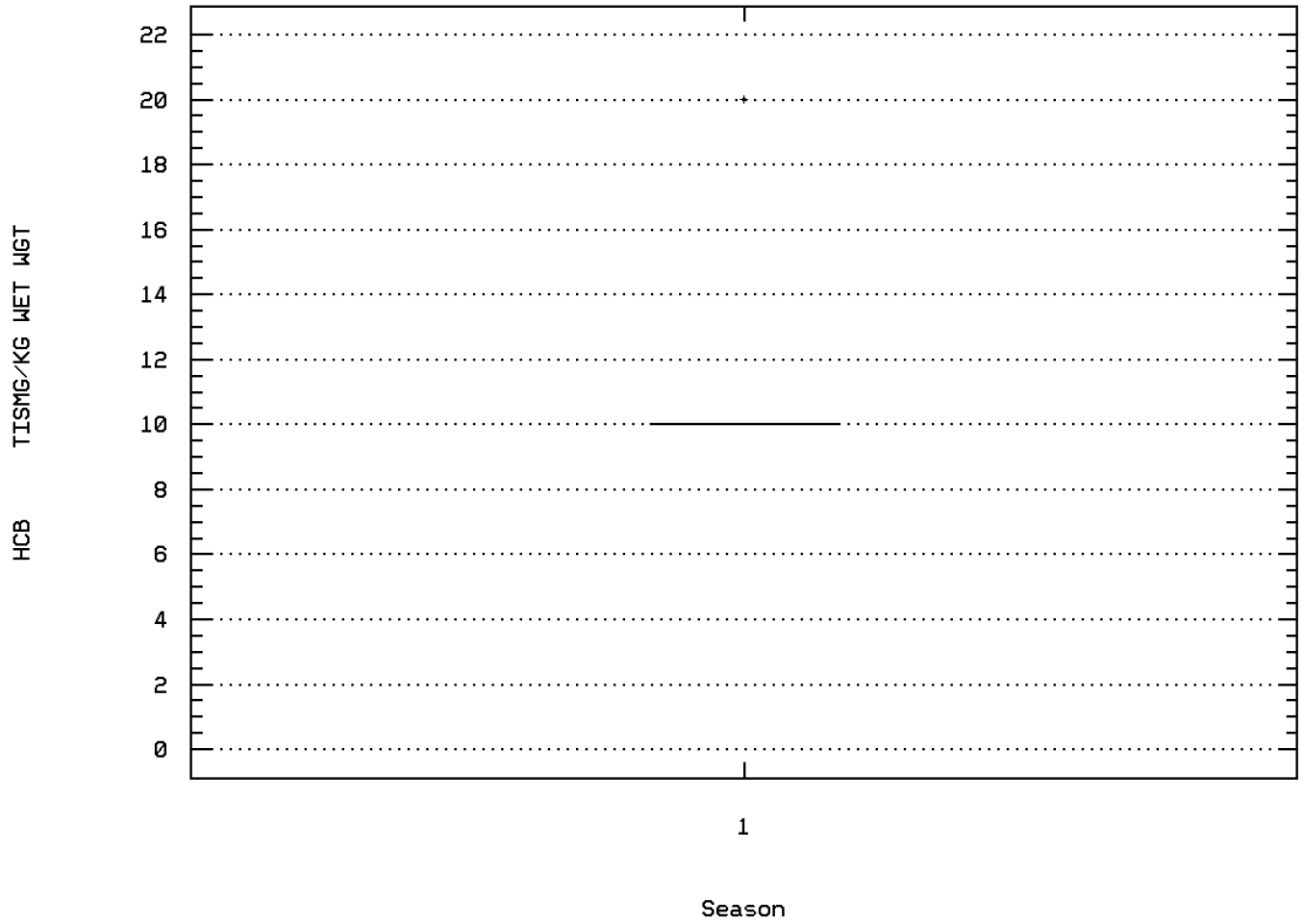


LAKE SUPERIOR AT BAYFIELD

Station: APIS0176 Parameter Code: 34688

HEXACHLOROBENZENE WET

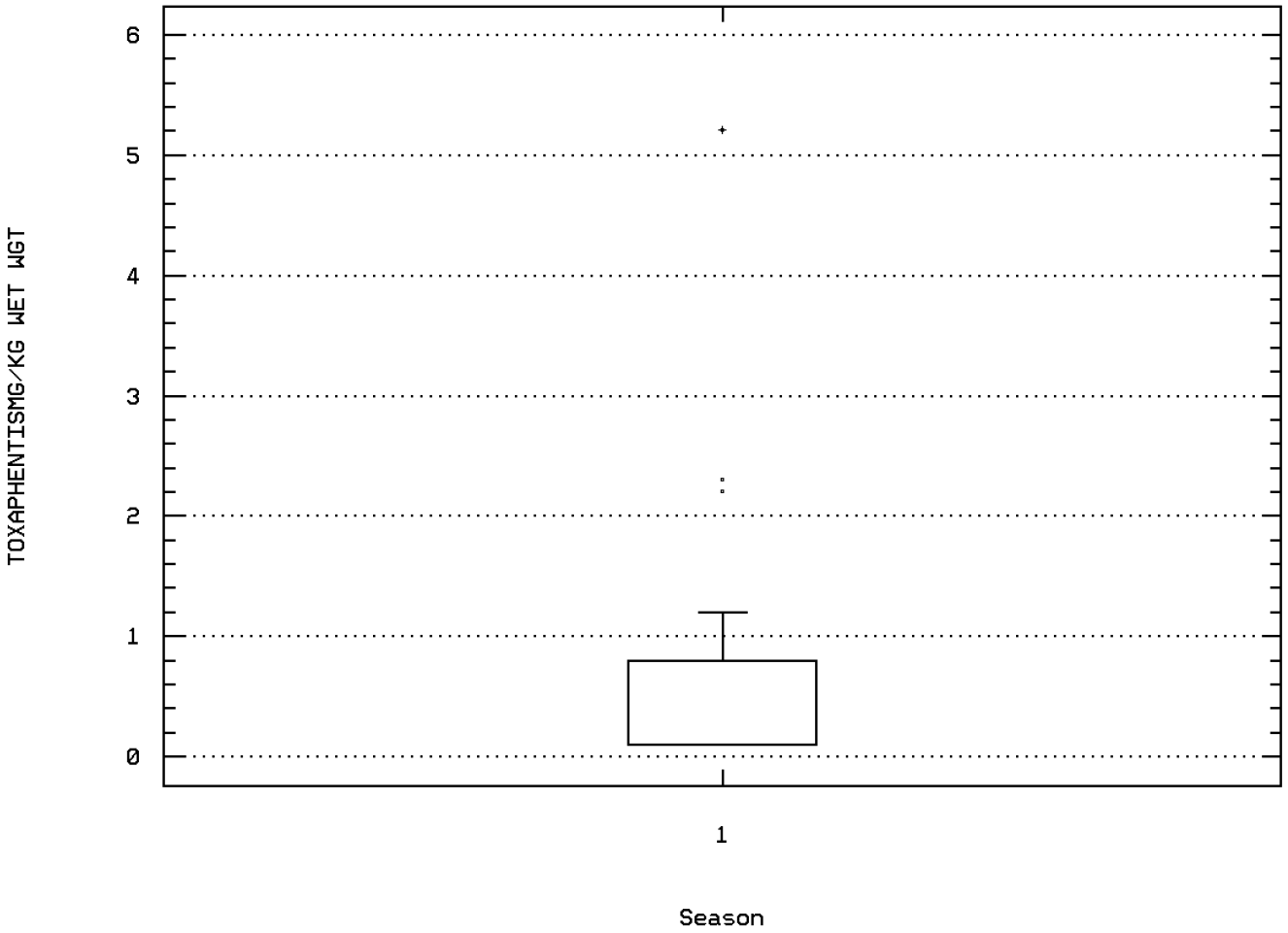
(X 0.001)



LAKE SUPERIOR AT BAYFIELD

Station: APIS0176 Parameter Code: 34691

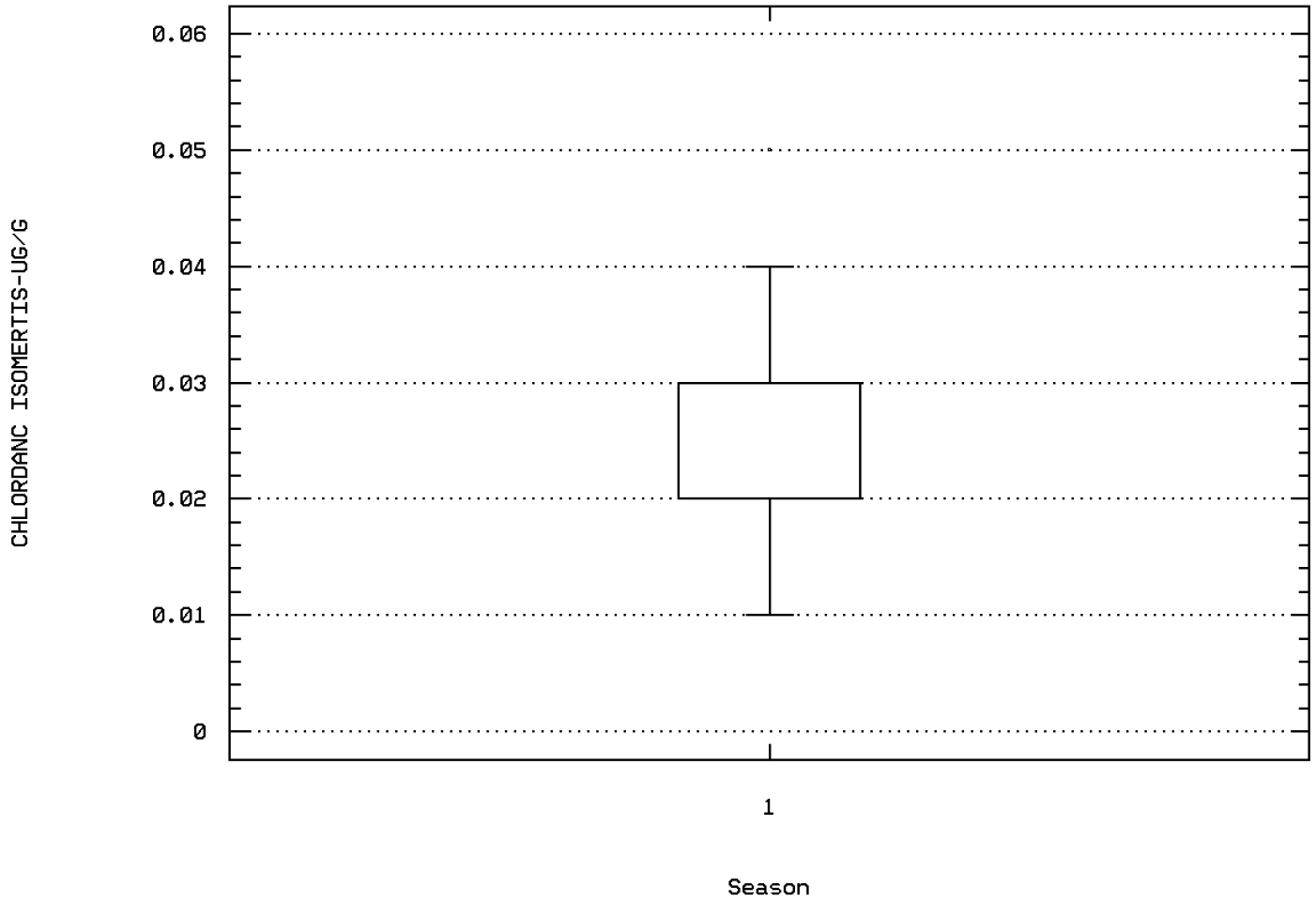
TOXAPHENE WET



LAKE SUPERIOR AT BAYFIELD

Station: APIS0176 Parameter Code: 39063

CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG

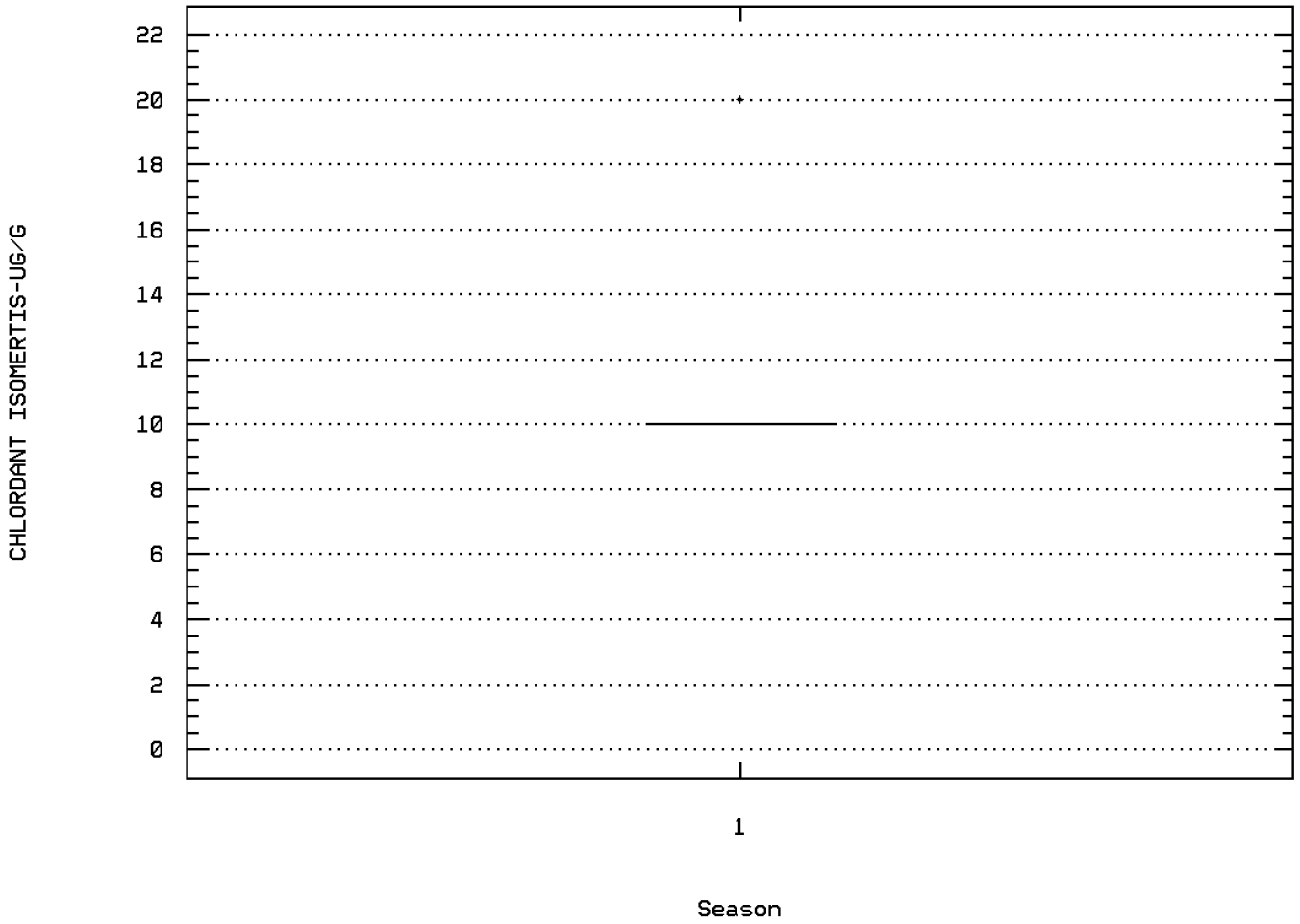


LAKE SUPERIOR AT BAYFIELD

Station: APIS0176 Parameter Code: 39066

CHLORDANE-TRANS ISOMER,TISSUE WET WGT (

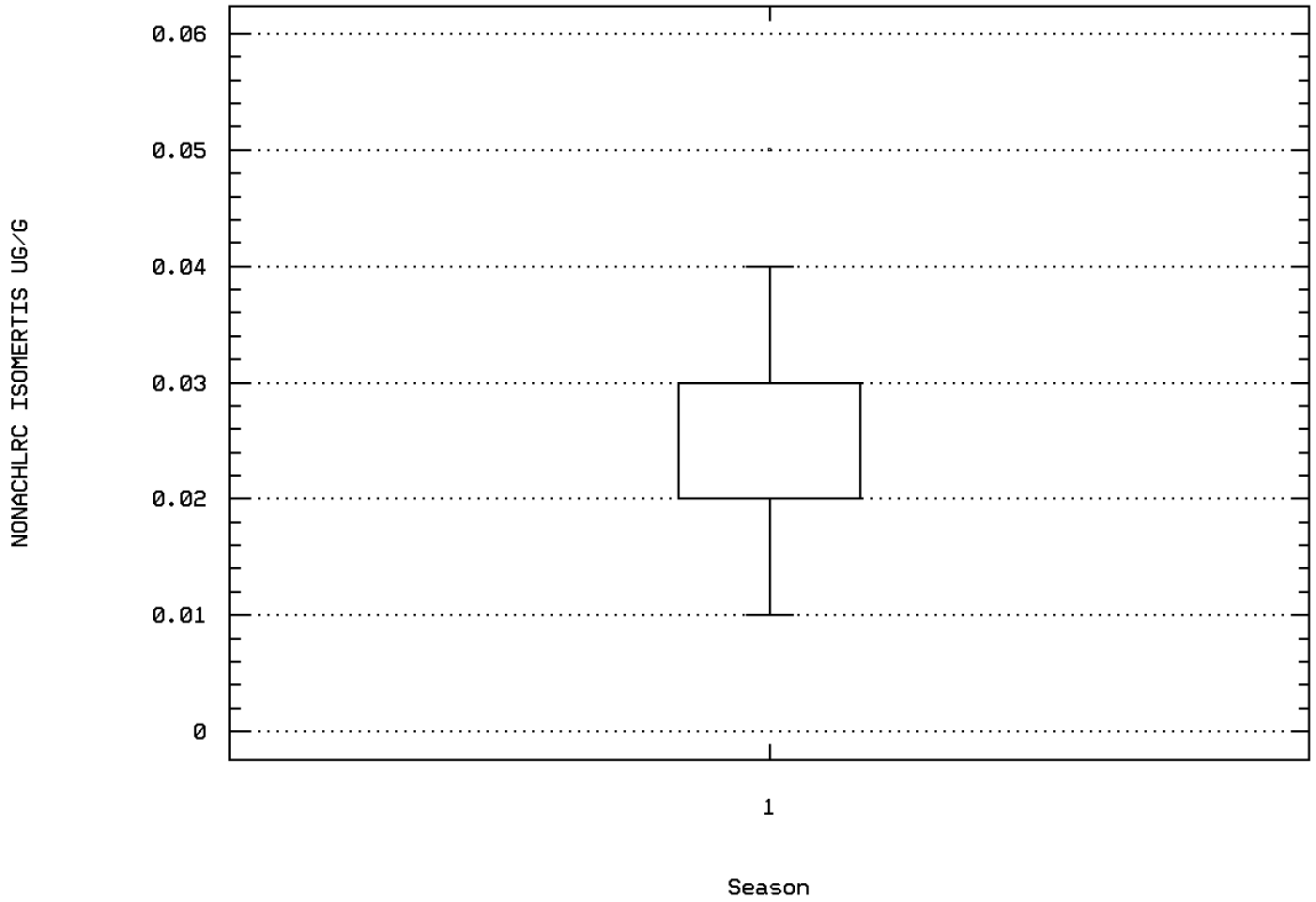
(X 0.001)



LAKE SUPERIOR AT BAYFIELD

Station: APIS0176 Parameter Code: 39069

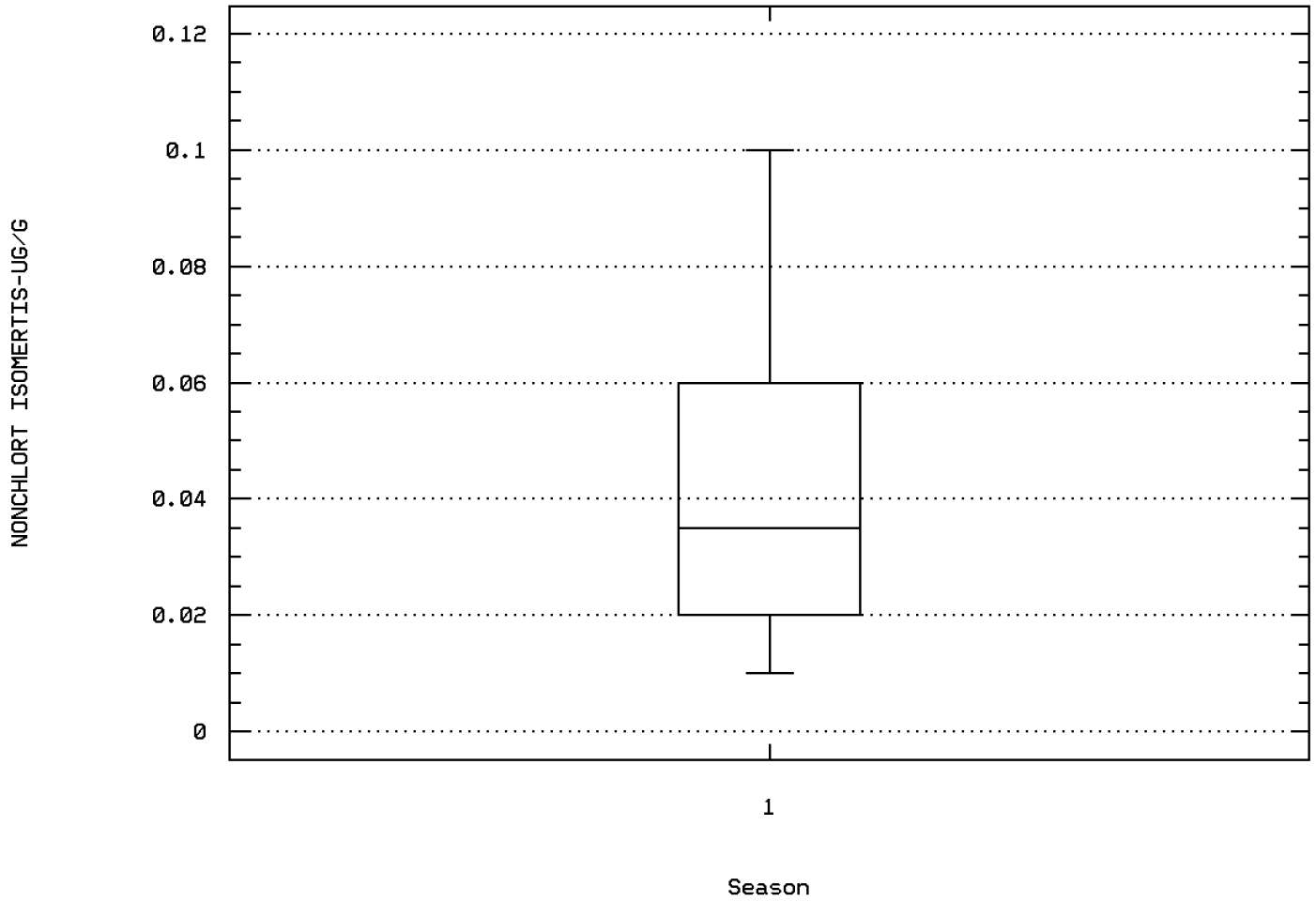
CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET



LAKE SUPERIOR AT BAYFIELD

Station: APIS0176 Parameter Code: 39072

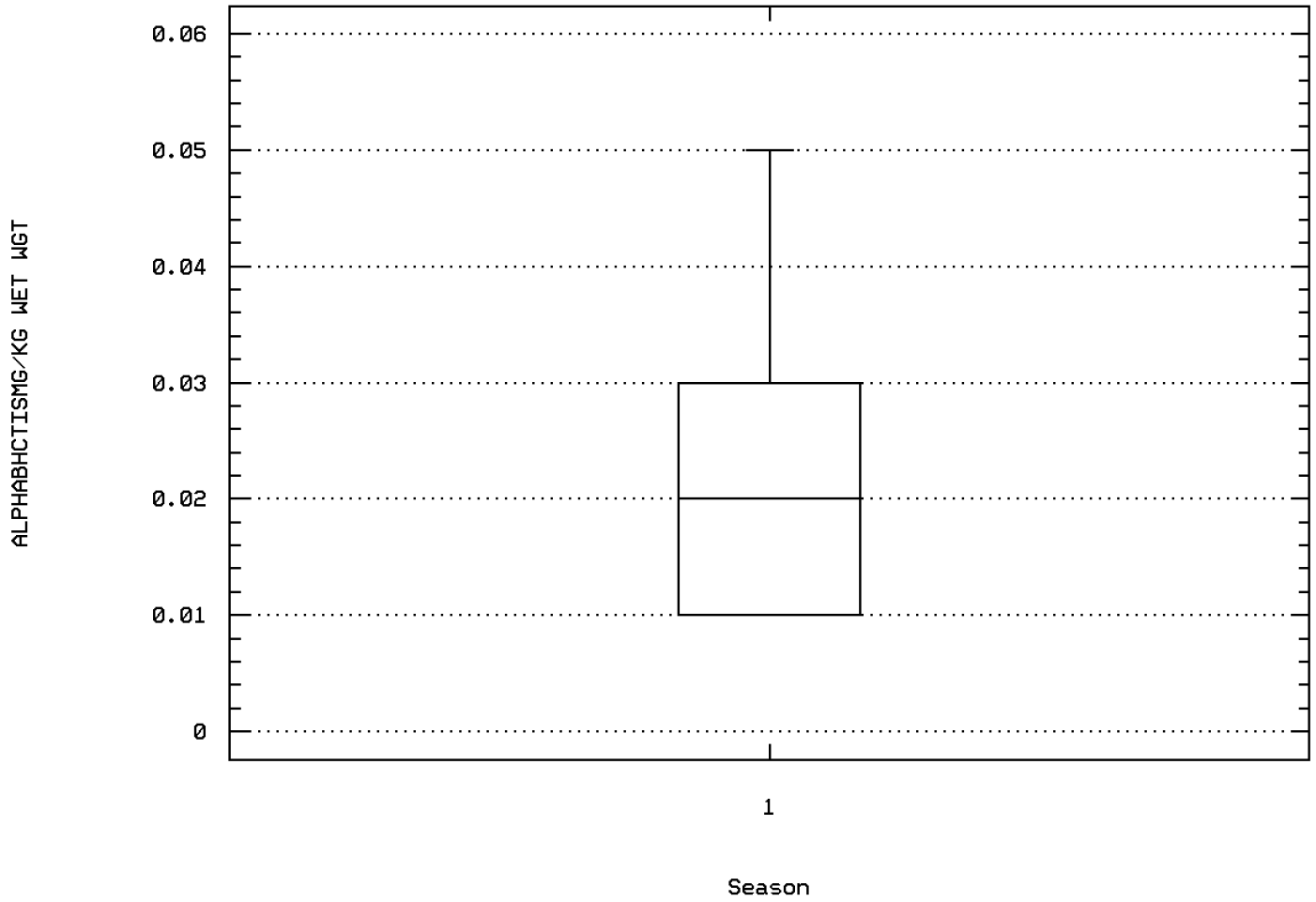
CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WE



LAKE SUPERIOR AT BAYFIELD

Station: APIS0176 Parameter Code: 39074

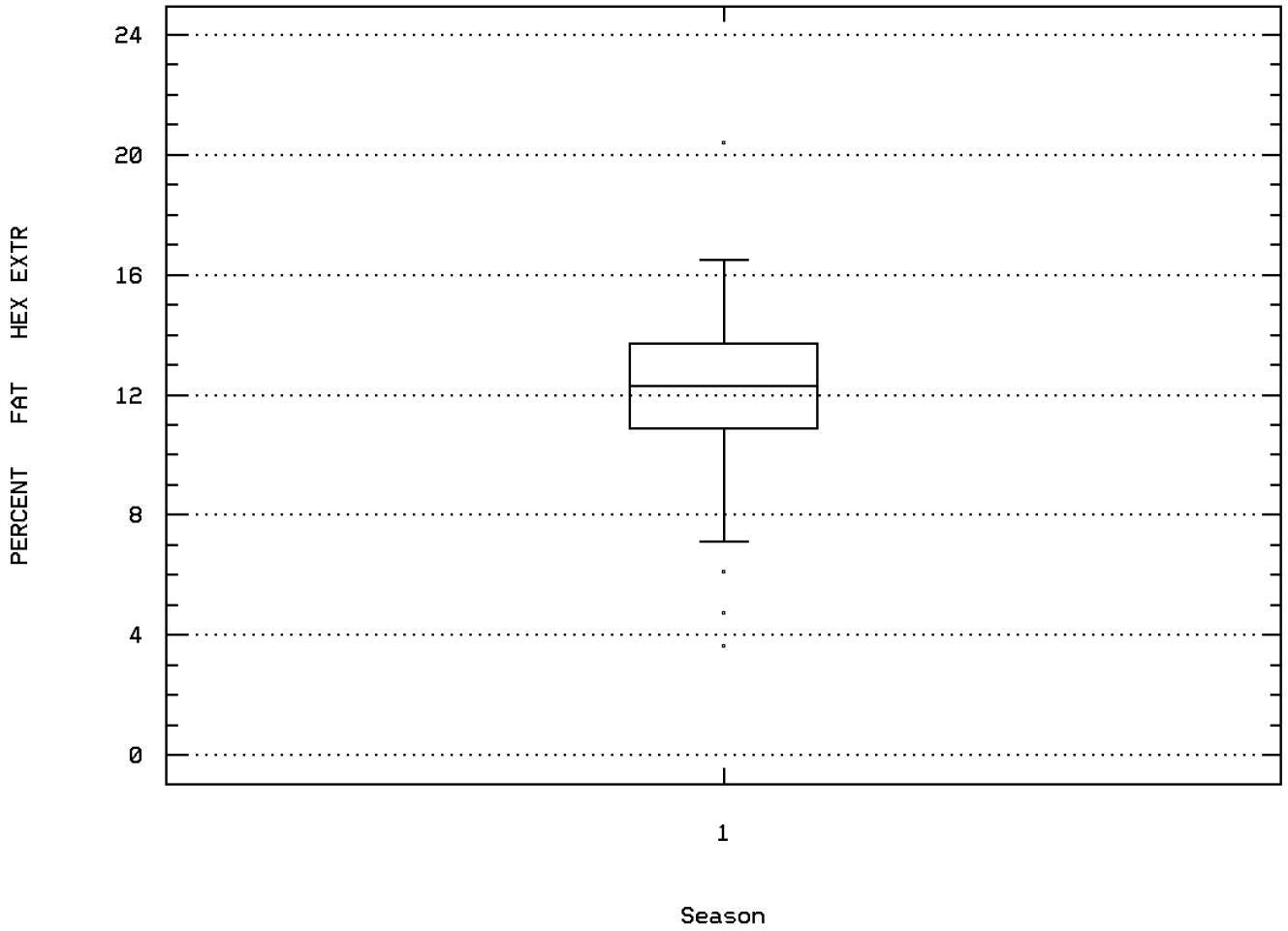
BHC-ALPHA ISOMER,TISSUE UG/G WET



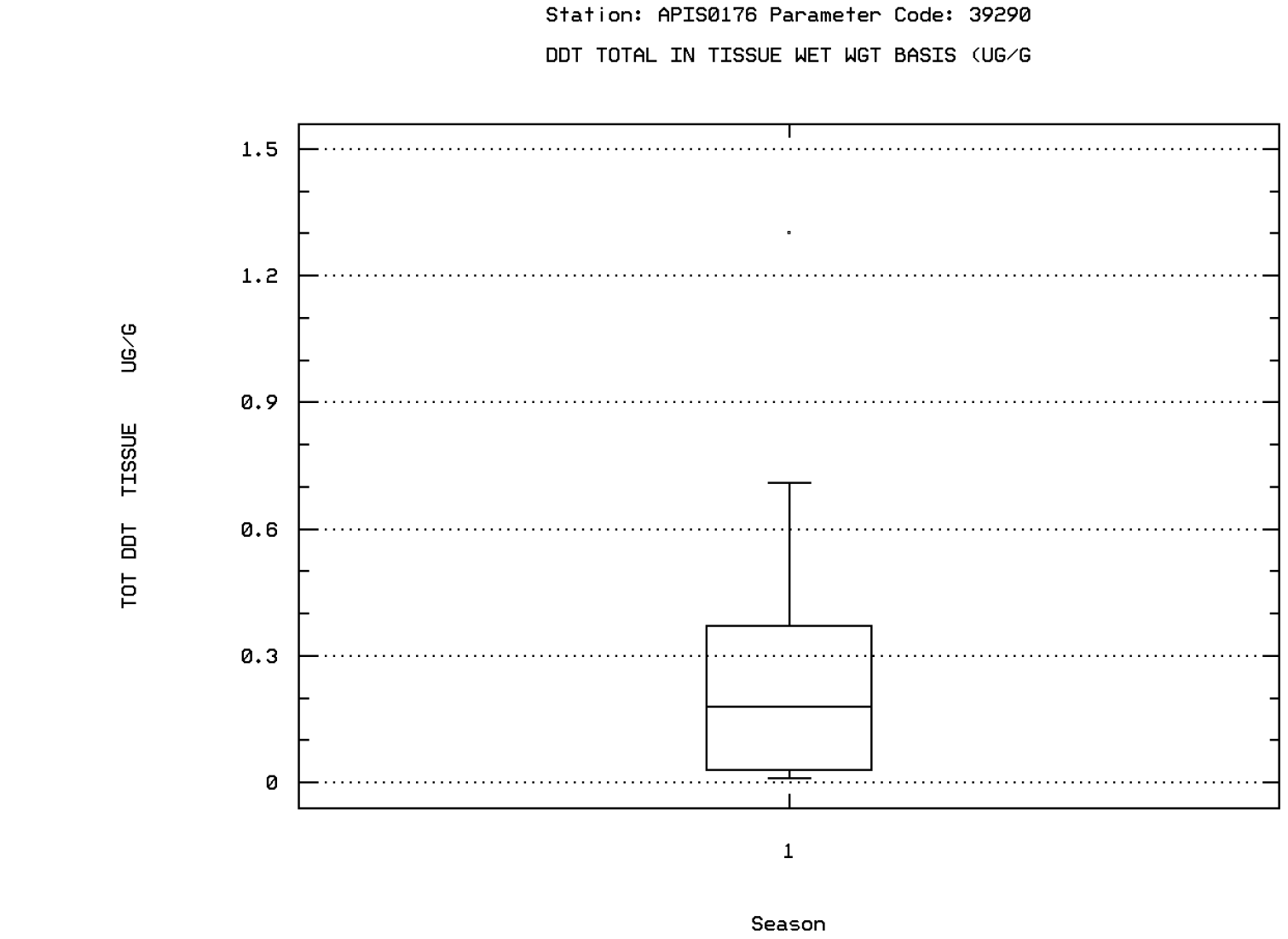
LAKE SUPERIOR AT BAYFIELD

Station: APIS0176 Parameter Code: 39105

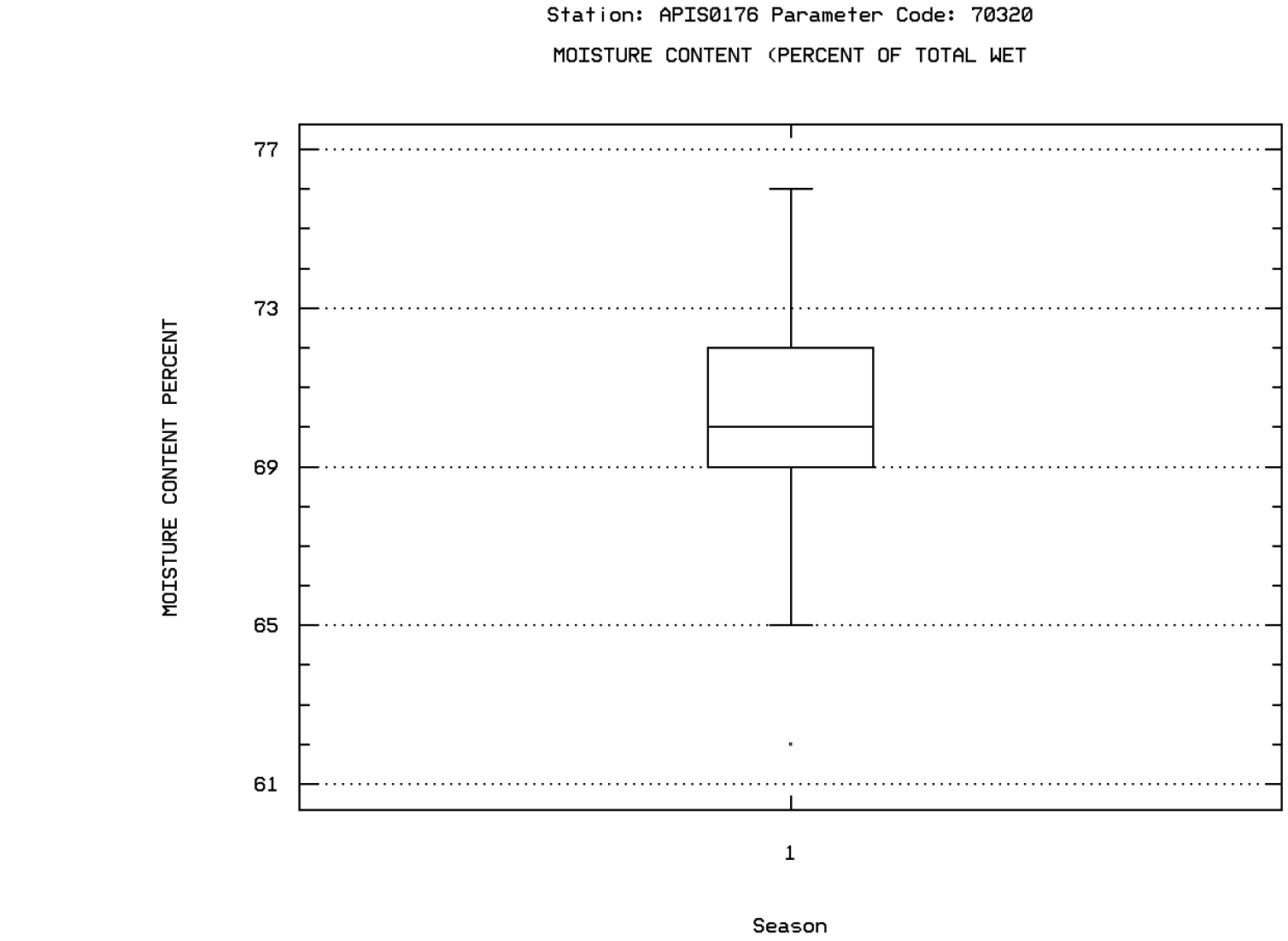
PERCENT FAT HEXANE EXTRACTION



LAKE SUPERIOR AT BAYFIELD



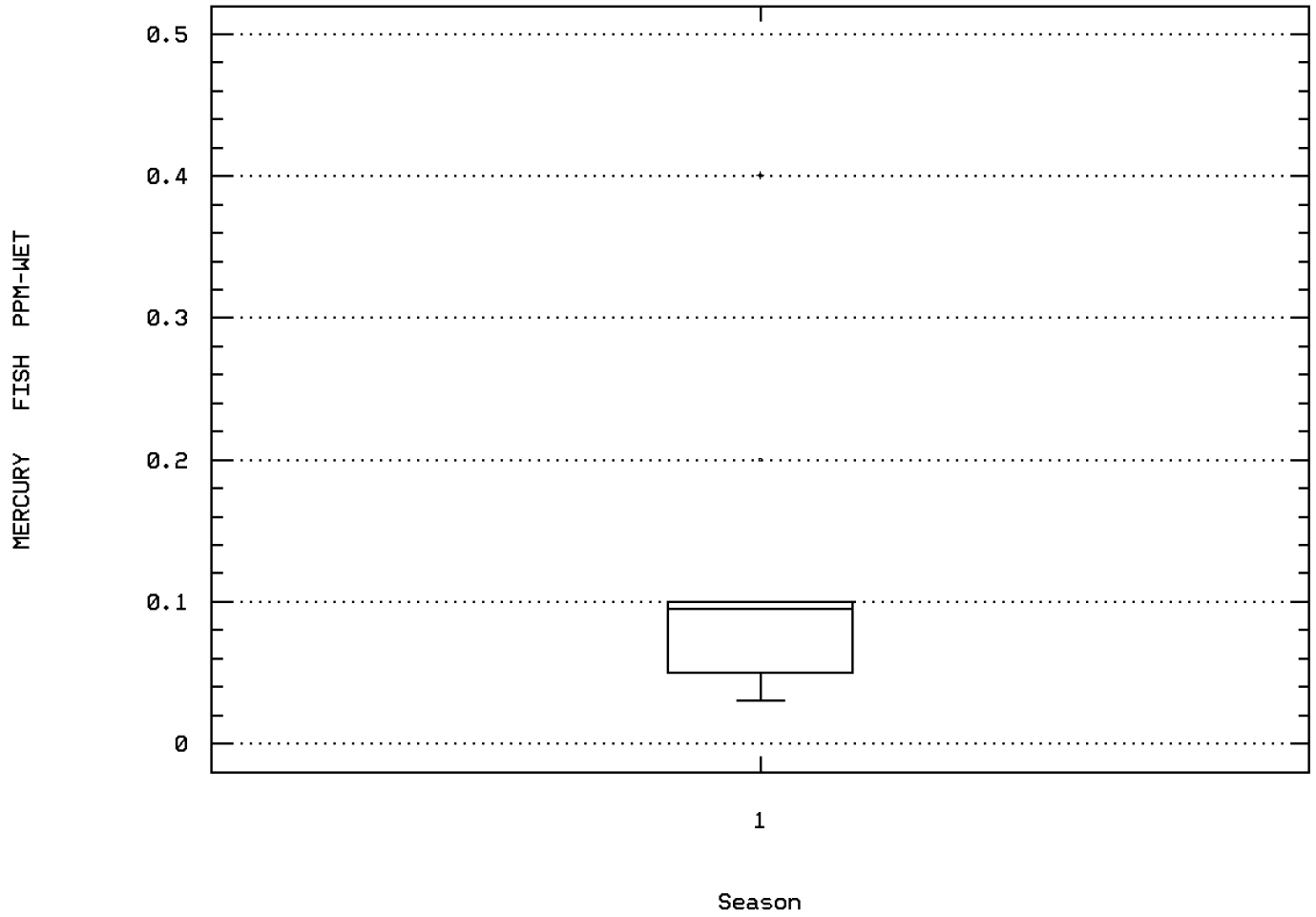
LAKE SUPERIOR AT BAYFIELD



LAKE SUPERIOR AT BAYFIELD

Station: APIS0176 Parameter Code: 71935

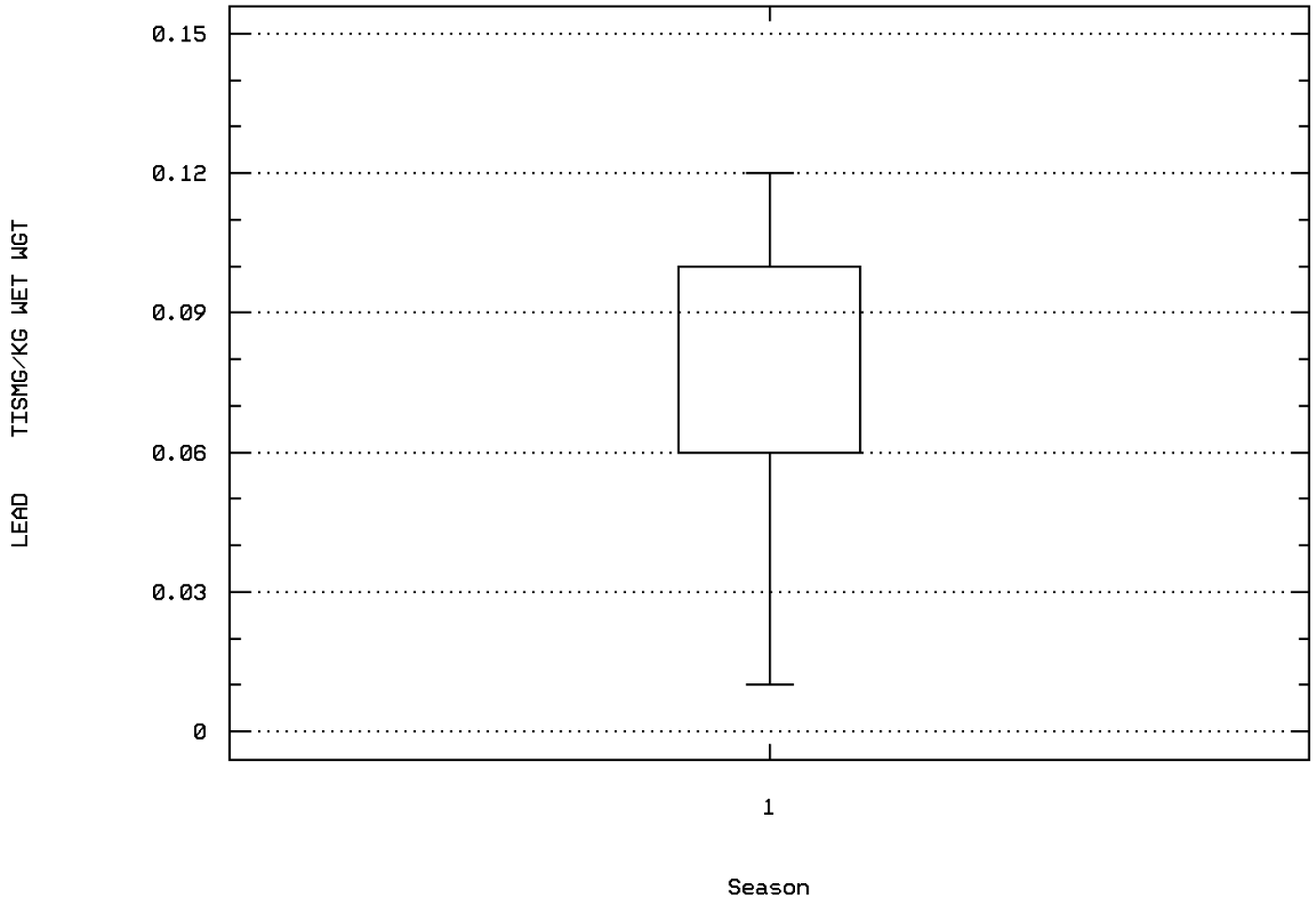
MERCURY, TOTAL IN FISH (PPM,WET WEIGHT



LAKE SUPERIOR AT BAYFIELD

Station: APIS0176 Parameter Code: 71936

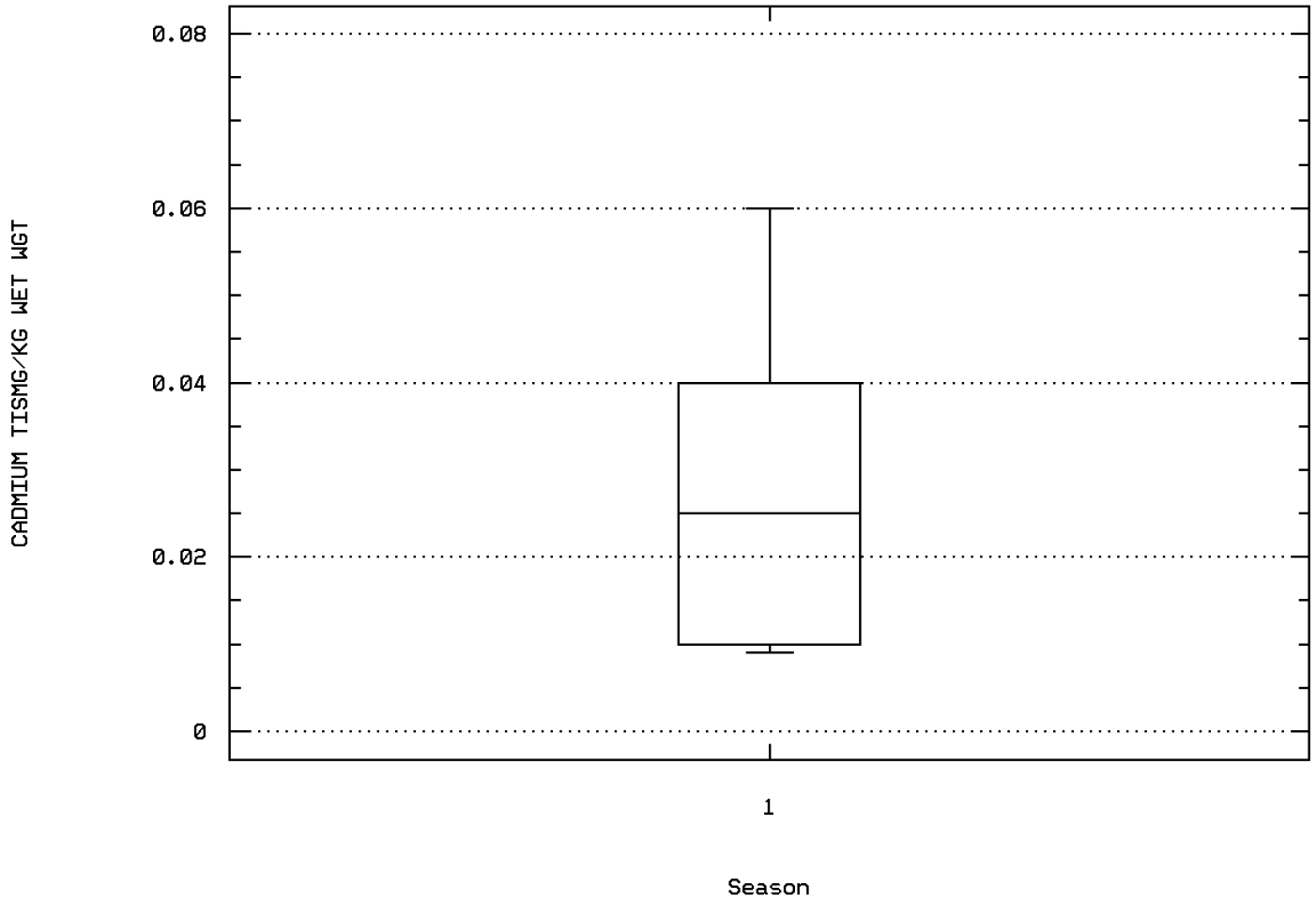
LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGH



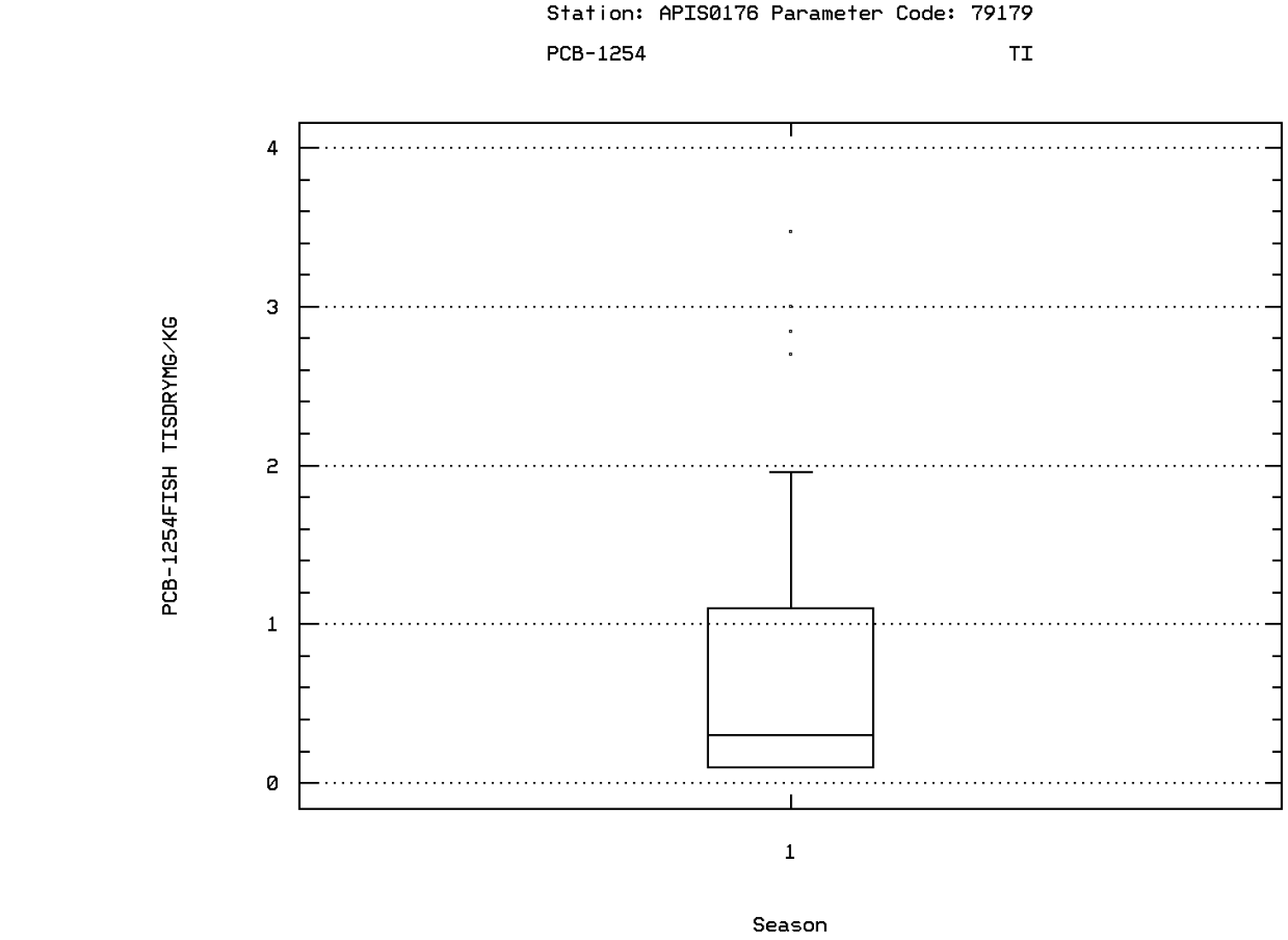
LAKE SUPERIOR AT BAYFIELD

Station: APIS0176 Parameter Code: 71940

CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEI



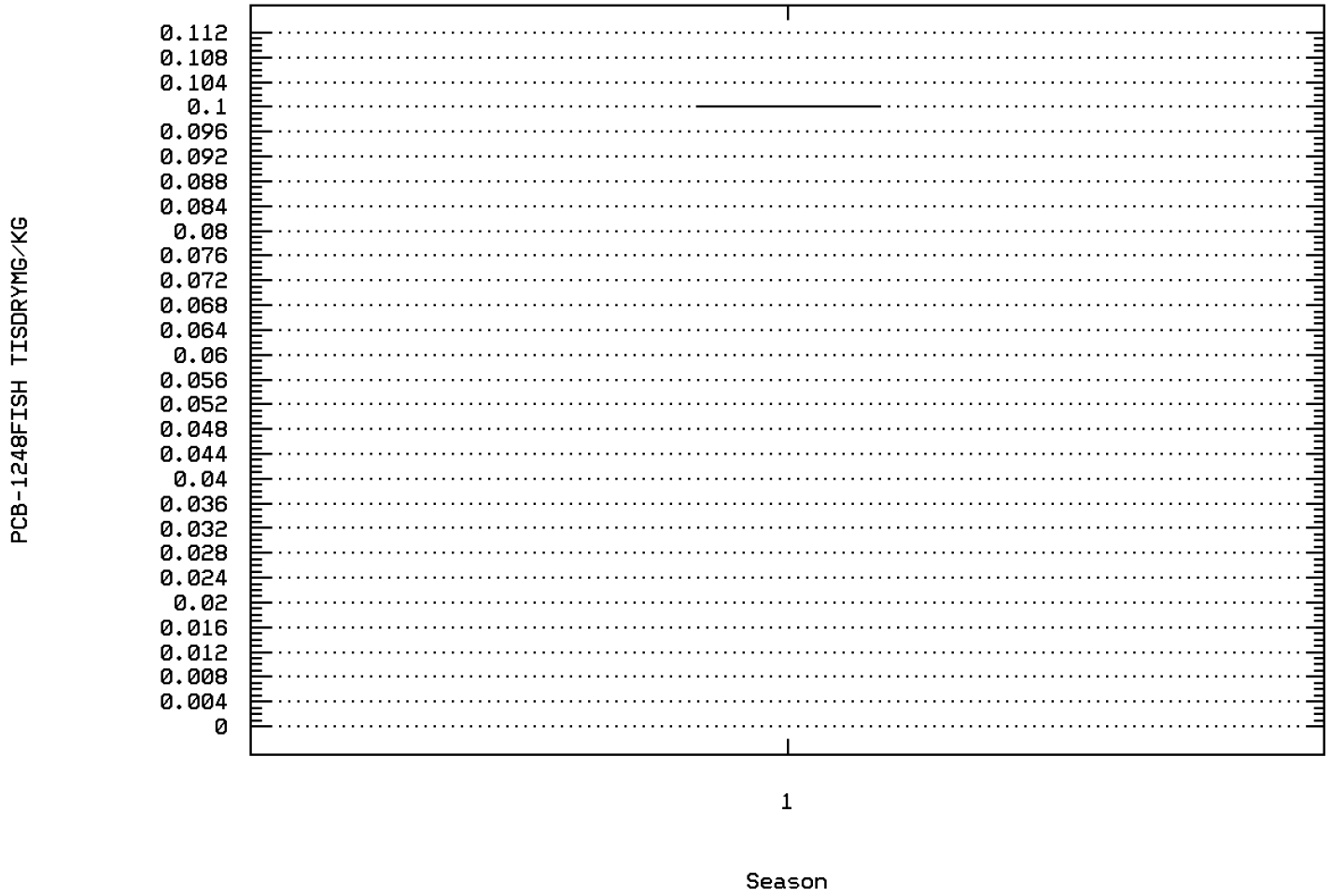
LAKE SUPERIOR AT BAYFIELD



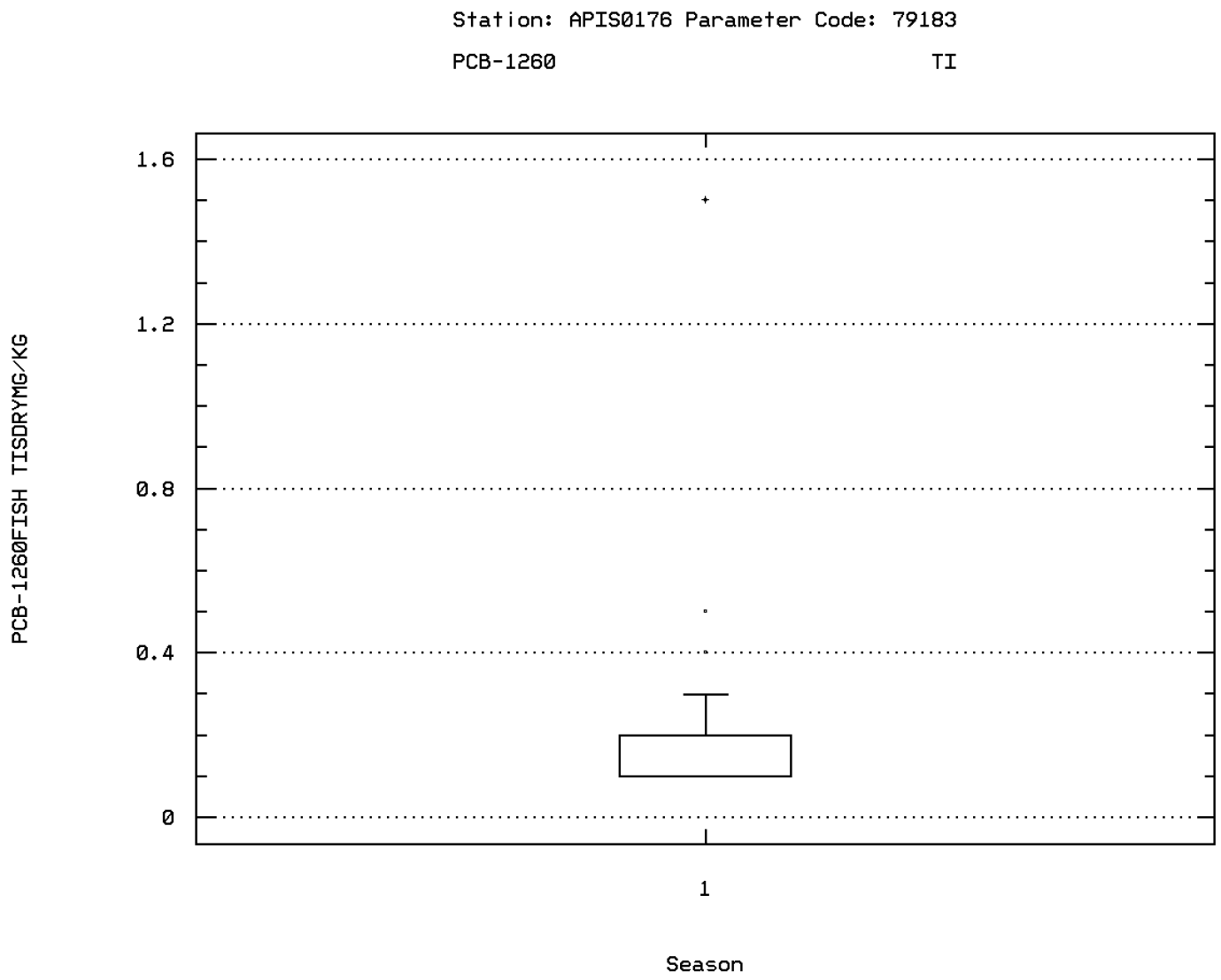
LAKE SUPERIOR AT BAYFIELD

Station: APIS0176 Parameter Code: 79182

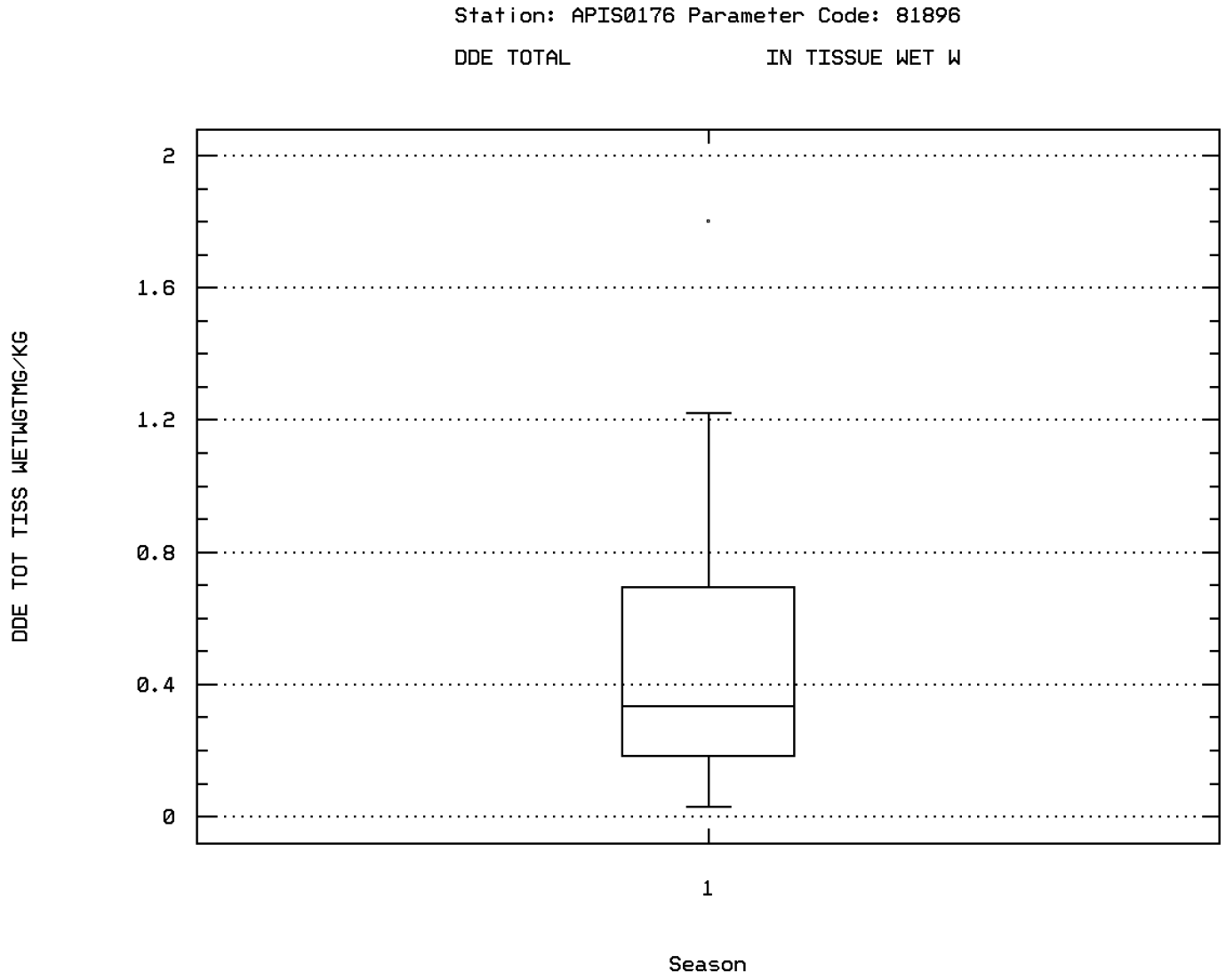
PCB-1248 TI



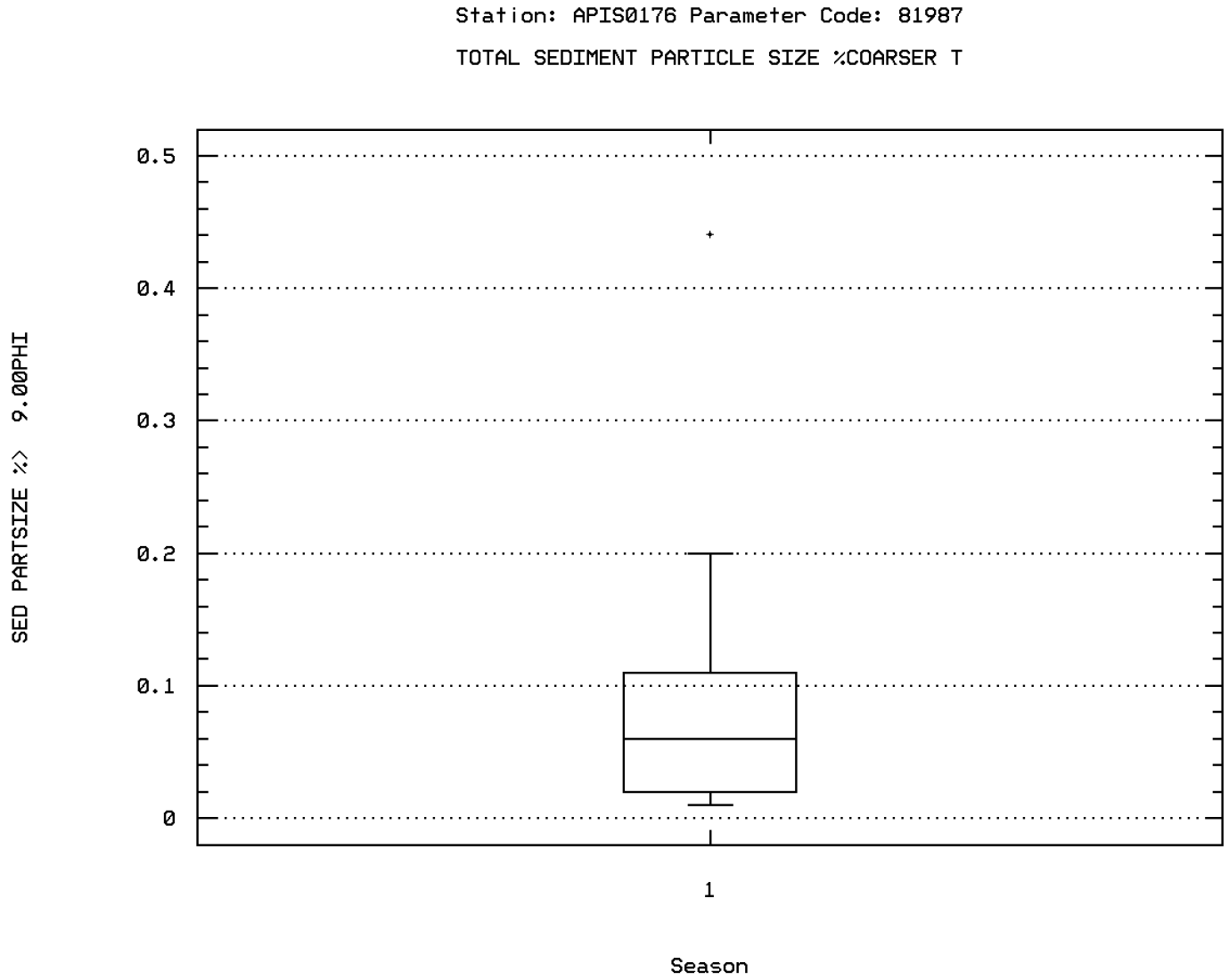
LAKE SUPERIOR AT BAYFIELD



LAKE SUPERIOR AT BAYFIELD



LAKE SUPERIOR AT BAYFIELD



LAKE SUPERIOR AT BAYFIELD

Station Inventory for Station: APIS0177

NPS Station ID: APIS0177
LAT/LON: 46.923615/ -90.830559
Agency: 112WRD
Date Created: 08/24/84
Location: RASPBERRY RIVER NEAR SAND BAY, WI
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 04026215
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04010301004
RF1 Mile Point: 21.950
Distance from RF1: 34.30
On/Off RF1: OFF
RF3 Index: 04010301006300.00
RF3 Mile Point: 0.00
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0177

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/08/84-07/16/84	2	17.25	17.25	17.5	17.	0.125	0.354	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/08/84-06/08/84	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	07/16/84-07/16/84	1	744.	744.	744.	744.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/08/84-07/16/84	2	58.5	58.5	116.	1.	6612.5	81.317	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/08/84-07/16/84	2	136.5	136.5	218.	55.	13284.5	115.258	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/16/84-07/16/84	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/08/84-07/16/84	2	7.35	7.35	7.5	7.2	0.045	0.212	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/08/84-07/16/84	2	7.325	7.325	7.5	7.2	0.046	0.215	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/08/84-07/16/84	2	0.047	0.047	0.063	0.032	0.	0.022	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	06/08/84-07/16/84	2	7.	7.	7.4	6.6	0.32	0.566	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/08/84-07/16/84	2	6.837	6.837	7.4	6.6	0.373	0.611	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/08/84-07/16/84	2	0.145	0.145	0.251	0.04	0.022	0.149	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/16/84-07/16/84	1	104.	104.	104.	104.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	06/08/84-07/16/84	2 ##	0.083	0.083	0.16	0.005	0.012	0.11	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	06/08/84-07/16/84	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	06/08/84-07/16/84	2	0.75	0.75	1.3	0.2	0.605	0.778	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/08/84-07/16/84	2 ##	0.075	0.075	0.1	0.05	0.001	0.035	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/08/84-07/16/84	2	0.05	0.05	0.08	0.02	0.002	0.042	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/08/84-07/16/84	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/08/84-07/16/84	2	16.65	16.65	26.	7.3	174.845	13.223	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/08/84-07/16/84	2	5.25	5.25	8.6	1.9	22.445	4.738	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/08/84-07/16/84	2	2.2	2.2	3.2	1.2	2.	1.414	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/08/84-07/16/84	2	1.2	1.2	1.3	1.1	0.02	0.141	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/08/84-07/16/84	2	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/08/84-07/16/84	2 ##	5.05	5.05	10.	0.1	49.005	7.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/08/84-07/16/84	2 ##	0.075	0.075	0.1	0.05	0.001	0.035	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/08/84-07/16/84	2	8.5	8.5	11.	6.	12.5	3.536	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/08/84-07/16/84	2	103.	103.	120.	86.	578.	24.042	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	06/08/84-07/16/84	2	30.	30.	35.	25.	50.	7.071	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/08/84-07/16/84	2	95.	95.	182.	8.	15138.	123.037	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0177

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Fresh Chronic	9.	2	0	0.00	1	0	0.00							1	0	0.00
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00							1	0	0.00
00403	PH, LAB	Fresh Chronic	9.	2	0	0.00	1	0	0.00							1	0	0.00
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00							1	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	2	0	0.00	1	0	0.00							1	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	2	0	0.00	1	0	0.00							1	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	1	0	0.00							1	0	0.00
		Drinking Water	250.	2	0	0.00	1	0	0.00							1	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00							1	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	1	0	0.00							1	0	0.00

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

Station Inventory for Station: APIS0178

NPS Station ID: APIS0178
LAT/LON: 47.000005/ -90.833338
Agency: 21WIDNR
Date Created: 08/08/78
Location: LAKE SUPERIOR-APOSTLE ISLANDS
FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 178
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 999
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: WISC & MINN DRAINAGE
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
DATA FROM WISCONSIN DEPARTMENT OF NATURAL RESOURCES FISH SAMPLING PROGRAMS FOR MERCURY, PCBS, AND PESTICIDES
SAMPLE TAKEN FROM LAKE SUPERIOR - APOSTLE ISLANDS

Parameter Inventory for Station: APIS0178

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/12/70-08/12/70	14	611.5	592.429	1043.	111.	130223.495	360.865	111.5	291.75	981.75	1042.5
00024	SAMPLE LENGTH IN INCHES	08/12/70-08/12/70	14	17.7	17.493	20.7	14.	4.316	2.078	14.	16.2	18.925	20.65
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	08/12/70-08/12/70	3	0.12	0.097	0.12	0.05	0.002	0.04	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	08/12/70-08/12/70	9	0.29	0.304	0.6	0.09	0.033	0.182	0.09	0.115	0.45	0.6
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/12/70-08/12/70	4	0.23	0.253	0.34	0.21	0.004	0.061	**	**	**	**
71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/12/70-08/12/70	3	4.	3.867	4.2	3.4	0.173	0.416	**	**	**	**
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	08/12/70-08/12/70	3	0.09	0.12	0.2	0.07	0.005	0.07	**	**	**	**
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	08/12/70-08/12/70	4 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	08/12/70-08/12/70	14	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.

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

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

Station Inventory for Station: APIS0179

NPS Station ID: APIS0179
LAT/LON: 46.785337/ -90.864420
Agency: 21WIS
Date Created: / /
Location: WDNR BAYFIELD FISH HATCHERY
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 043005 /8280MA043005/5004W /0004162001
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN
ECO Region:
RF1 Index: 04010301004
RF1 Mile Point: 4.630
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 04010301011700.00
RF3 Mile Point: 2.12
Distance from RF3: 0.03
On/Off RF3:
Description:
WISCONSIN DNR BAYFIELD FISH HATCHERY PROCESS & SANITARY WASTE TO PIKE CR

Parameter Inventory for Station: APIS0179

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	11/01/76-12/20/76	8	273.	301.	500.	270.	6466.571	80.415	**	**	**	**
00312	BOD, 6 DAY, 20 DEG C MG/L	11/08/76-11/29/76	5	160.	200.	540.	41.	41345.5	203.336	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/01/76-12/20/76	7	2670.	1925.857	2880.	22.	1709154.143	1307.346	**	**	**	**

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

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

Station Inventory for Station: APIS0180

NPS Station ID: APIS0180
LAT/LON: 46.785948/ -90.865920
Agency: 21WITIS
Date Created: 07/02/88
Location: BAYFIELD 00 HATCHERY
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE/TISSUE
STORET Station ID(s): 045015 /8280MA045015/5004W285015
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 55
Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 04010301080601.85
RF3 Mile Point: 1.97
Distance from RF3: 0.09
On/Off RF3:
Description:
STATION FOR LEE LIEBENSTEIN OF BUR WATER RES MGT (608)266-0164 FISH TOXICS MONITORING

Parameter Inventory for Station: APIS0180

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: APIS0181

NPS Station ID: APIS0181 | LAT/LON: 46.733337/ -90.868199 | Agency: 21WIS | Date Created: 11/17/90
Location: SIOUX RIVER ABOVE MOUTH SITE 1 | FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/STREAM/SOLIDS | STORET Station ID(s): 043068 /8280LA043068/4904W093068
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 04010301 | Depth of Water: 0 | Aquifer:
Major Basin: LAKE SUPERIOR | Elevation: 55 | Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN | ECO Region:
RF1 Index: 04010301 | RF1 Mile Point: 0.000 | Distance from RF1: 4.10 | On/Off RF1:
RF3 Index: 04010301021400.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.03 | On/Off RF3:
Description:
STATION FOR DAVID L SMITH OF MADISON (608)266-0738 CZM-IPP, 1990 SAMPLING. FIELD SAMPLE 65-1. DEPTH 0.4M. TAKEN WITH TUBE CORER FROM EAST SIDE OF CHANNEL WHERE RIVER GOES FROM SW-NE DIRECTION, TO SE-NW DIRECTION. DEPOSITIONAL AREA DOWNSTREAM OF STH 13 BRIDGE. COMPOSITE OF 4 SAMPLES, VERTICALLY INTEGRATED.

Parameter Inventory for Station: APIS0181

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/26/90-06/26/90	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00557	OIL & GREASE,SED,DRY WT,FREON EXTR-GRAV METH,MG/KG	06/26/90-06/26/90	1	760.	760.	760.	760.	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/26/90-06/26/90	1	75.	75.	75.	75.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/26/90-06/26/90	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/26/90-06/26/90	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/26/90-06/26/90	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/26/90-06/26/90	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/26/90-06/26/90	1	270.	270.	270.	270.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/26/90-06/26/90	1 ##	1.25	1.25	1.25	1.25	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/26/90-06/26/90	1	17000.	17000.	17000.	17000.	0.	0.	**	**	**	**
34480	THALLIUM DRY WGTBOTMG/KG	06/26/90-06/26/90	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
61509	ZINC SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/26/90-06/26/90	1	47.	47.	47.	47.	0.	0.	**	**	**	**
61515	NICKEL SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/26/90-06/26/90	1	15.	15.	15.	15.	0.	0.	**	**	**	**
61521	ARSENIC SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/26/90-06/26/90	1	5.4	5.4	5.4	5.4	0.	0.	**	**	**	**
61527	CADMIUM SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/26/90-06/26/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70320	MOISTURE CONTENT (PERCENT OF TOTAL WET WEIGHT)	06/26/90-06/26/90	1	50.	50.	50.	50.	0.	0.	**	**	**	**
70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	06/26/90-06/26/90	1	9.	9.	9.	9.	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/26/90-06/26/90	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	06/26/90-06/26/90	1	42800.	42800.	42800.	42800.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0182

NPS Station ID: APIS0182 LAT/LON: 46.731948/ -90.871949 Agency: 21WIS Date Created: 11/17/90
Location: SIOUX RIVER ABOVE STH 13 SITE 2 FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/STREAM/SOLIDS STORET Station ID(s): 043069 /8280LA043069/49042093069
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 55 Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 3.60 On/Off RF1:
RF3 Index: 04010301000300.00 RF3 Mile Point: 0.16 Distance from RF3: 0.34 On/Off RF3:
Description:
STATION FOR DAVID L SMITH OF MADISON (608)266-0738 CZM-IPP, 1990 SAMPLING. FIELD SAMPLE 65-2. DEPTH 0.4M. TAKEN TUBE CORER FROM DEPOSITIONAL AREA WHERE SLOUGH RIVER WATER DIVERTS TO THE NORTH. UPSTREAM OF STH 13 BRIDGE. DENSE STANDS OF CATTAILS AND BUR-REED IMMEDIATELY ADJACENT. COMPOSITE OF 4 SAMPLES, VERTICALLY INTEGRATED.

Parameter Inventory for Station: APIS0182

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/26/90-06/26/90	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00102	PERCENT SUSPENDED SOLIDS ON 14U FILTER %	06/26/90-06/26/90	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00557	OIL & GREASE,SED,DRY WT,FREON EXTR-GRAV METH,MG/KG	06/26/90-06/26/90	1	1100.	1100.	1100.	1100.	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/26/90-06/26/90	1	76.	76.	76.	76.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/26/90-06/26/90	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/26/90-06/26/90	1	18.	18.	18.	18.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/26/90-06/26/90	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/26/90-06/26/90	1	390.	390.	390.	390.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/26/90-06/26/90	1 ##	1.25	1.25	1.25	1.25	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/26/90-06/26/90	1	16000.	16000.	16000.	16000.	0.	0.	**	**	**	**
34480	THALLIUM DRY WGTBOTMG/KG	06/26/90-06/26/90	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
61509	ZINC SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/26/90-06/26/90	1	43.	43.	43.	43.	0.	0.	**	**	**	**
61515	NICKEL SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/26/90-06/26/90	1	13.	13.	13.	13.	0.	0.	**	**	**	**
61521	ARSENIC SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/26/90-06/26/90	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
61527	CADMIUM SLUDGE SOLID FRACTN,DRY WT,MG/KG	06/26/90-06/26/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70320	MOISTURE CONTENT (PERCENT OF TOTAL WET WEIGHT)	06/26/90-06/26/90	1	63.	63.	63.	63.	0.	0.	**	**	**	**
70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	06/26/90-06/26/90	1	11.	11.	11.	11.	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/26/90-06/26/90	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	06/26/90-06/26/90	1	53100.	53100.	53100.	53100.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0183

NPS Station ID: APIS0183
LAT/LON: 46.734392/ -90.876253
Agency: 21WITIS
Date Created: 09/24/88
Location: LK SUPERIOR 14 SIOUX RIVER
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE/TISSUE
STORET Station ID(s): 045037 /8280MA045037
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 55
Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 04010301072608.06
RF3 Mile Point: 8.06
Distance from RF3: 0.08
On/Off RF3:
Description:
STATION FOR LEE LIEBENSTEIN OF BUR WATER RES MGT (608)266-0164 FISH TOXICS MONITORING
LEE LIEBENSTEIN (608) 266-0164 BUREAU WATER RES MAN

Parameter Inventory for Station: APIS0183

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: APIS0184

NPS Station ID: APIS0184
LAT/LON: 46.786477/ -90.877726
Agency: 21WITIS
Date Created: 12/17/88
Location: BAYFIELD HATCHERY
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE/TISSUE
STORET Station ID(s): 045020 /8280MA045020
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 55
Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 11.30
On/Off RF1:
RF3 Index: 04010301000423.60
RF3 Mile Point: 24.09
Distance from RF3: 0.98
On/Off RF3:
Description:
STATION FOR LEE LIEBENSTEIN OF BUR WATER RES MGT (608)266-0164 FISH TOXICS MONITORING
LEE LIEBENSTEIN (608) 266-0164 BUREAU WATER RES MAN

Parameter Inventory for Station: APIS0184

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: APIS0185

NPS Station ID: APIS0185
LAT/LON: 46.732309/ -90.878060
Agency: 21WIS
Date Created: 11/17/75
Location: SIOUX R AT STH 13
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 043020 /8280AB043020/4904W
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN
ECO Region:
RF1 Index: 04010301029
RF1 Mile Point: 0.010
Distance from RF1: 21.10
On/Off RF1: OFF
RF3 Index: 04010301069400.74
RF3 Mile Point: 5.64
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0185

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: APIS0186

NPS Station ID: APIS0186 | LAT/LON: 46.948476/ -90.890309 | Agency: 11NPSWRD | Date Created: 04/04/98
Location: LAKE SUPERIOR IN LITTLE SAND BAY | FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE | STORET Station ID(s): APIS_UW_LILSAND
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 04010301 | Depth of Water: 0 | Aquifer:
Major Basin: LAKE SUPERIOR | Elevation: 0 | Water Body Id:
Minor Basin: MONTREAL | ECO Region:
RF1 Index: 04010301 | RF1 Mile Point: 0.000 | Distance from RF1: 13.80 | On/Off RF1:
RF3 Index: 04010301001007.02 | RF3 Mile Point: 10.66 | Distance from RF3: 1.27 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SAND ISLAND WISCONSIN-BAYFIELD CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON LAKE SUPERIOR APPROXIMATELY 2 MILES SOUTHEAST OF SAND ISLAND IN LITTE SAND BAY. SAMPLES FOR THIS SITE WERE COLLECTED BETWEEN MID MAY AND SEPTEMBER OF 1986 AND 1987. SAMPLES WERE ANALYZED FOR FECAL COLIFORM AND FECAL STREPTOCOCCUS. THE RESULTS ARE IN "WATER RESOURCES OF THE APOSTLE ISLANDS NATIONAL LAKESHORE 1986- 1987" BY M. BALCER AND D. MCCAULEY WITH THE CENTER FOR LAKE SUPERIOR ENVIRONMENTAL STUDIES; UNIVERSITY OF WISCONSIN-SUPERIOR (MARCH 1989). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0186

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/13/86-09/11/87	55	1.	3.073	50.	0.5	71.43	8.452	0.5	0.5	2.	4.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/13/86-09/11/87	55	0.	0.059	1.699	-0.301	0.221	0.47	-0.301	-0.301	0.301	0.602
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.147								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/13/86-09/11/87	55	240.	782.836	8500.	1.	2567853.362	1602.452	19.	48.	564.	2237.8
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/13/86-09/11/87	55	2.38	2.288	3.929	0.	0.67	0.819	1.263	1.681	2.751	3.35
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			193.955								

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

EPA Water Quality Criteria Analysis for Station: APIS0186

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	55	0	0.00	27	0	0.00							28	0	0.00

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

Station Inventory for Station: APIS0187

NPS Station ID: APIS0187
LAT/LON: 46.885281/ -90.902781
Agency: 112WRD
Date Created: 04/28/90
Location: RED CLIFF CREEK NEAR BAYFIELD, WI
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 04026219
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 04010301074300.00
RF3 Mile Point: 0.29
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0187

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/89-08/22/89	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/89-08/22/89	1	153.	153.	153.	153.	0.	0.	**	**	**	**
39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	08/22/89-08/22/89	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/22/89-08/22/89	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	08/22/89-08/22/89	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0188

NPS Station ID: APIS0188
LAT/LON: 47.053615/ -90.903615
Agency: 112WRD
Date Created: 11/07/81
Location: LAKE SUPERIOR SITE 1 NORTH OF YORK ISLAND, WI
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 470313090541300
RMI-Indexes:
Within Park Boundary: No
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: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0188

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/22/81-07/26/82	8	93.5	91.375	180.	0.	7969.696	89.273	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/81-07/26/82	6	9.5	10.067	16.9	4.	33.367	5.776	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/22/81-07/22/81	3	83.	84.667	88.	83.	8.333	2.887	**	**	**	**
00400	PH (STANDARD UNITS)	07/22/81-07/26/82	6	7.25	7.267	7.6	6.8	0.079	0.28	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/22/81-07/26/82	6	7.247	7.185	7.6	6.8	0.087	0.294	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/22/81-07/26/82	6	0.057	0.065	0.158	0.025	0.002	0.048	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/22/81-07/26/82	5 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	07/22/81-07/26/82	2	179.	179.	260.	98.	13122.	114.551	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/22/81-07/26/82	6	1.8	2.45	5.3	1.4	2.235	1.495	**	**	**	**
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	07/22/81-07/26/82	2 ##	0.225	0.225	0.4	0.05	0.061	0.247	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	07/22/81-07/22/81	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	07/22/81-07/26/82	2	8.5	8.5	14.	3.	60.5	7.778	**	**	**	**
39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	07/22/81-07/22/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39250	NAPTHALENES, POLYCHLORINATED (UG/L)	07/22/81-07/22/81	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	07/22/81-07/22/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/22/81-07/22/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/22/81-07/22/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	07/22/81-07/22/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	07/22/81-07/22/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	07/22/81-07/22/81	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	07/22/81-07/22/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	07/22/81-07/22/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/22/81-07/22/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	07/22/81-07/22/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/22/81-07/22/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	07/22/81-07/22/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/22/81-07/22/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	07/22/81-07/22/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/22/81-07/22/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	07/22/81-07/22/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/22/81-07/22/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	07/22/81-07/22/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/22/81-07/22/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	07/22/81-07/22/81	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/22/81-07/22/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	07/22/81-07/22/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	07/22/81-07/22/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	07/22/81-07/22/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**

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

Parameter Inventory for Station: APIS0188

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	07/22/81-07/22/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	07/22/81-07/22/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	07/22/81-07/22/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	07/22/81-07/22/81	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/22/81-07/22/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39755	MIREX, TOTAL (UG/L)	07/22/81-07/22/81	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	07/22/81-07/22/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
70330	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .031MM	07/26/82-07/26/82	1	4.	4.	4.	4.	0.	0.	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/22/81-07/22/81	2	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	07/22/81-07/26/82	6 ##	0.05	0.058	0.1	0.05	0.	0.02	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/22/81-07/26/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	07/26/82-07/26/82	1	14.	14.	14.	14.	0.	0.	**	**	**	**
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	07/26/82-07/26/82	1	46.	46.	46.	46.	0.	0.	**	**	**	**
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	07/26/82-07/26/82	1	76.	76.	76.	76.	0.	0.	**	**	**	**
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	07/26/82-07/26/82	1	97.	97.	97.	97.	0.	0.	**	**	**	**
80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	07/26/82-07/26/82	1	100.	100.	100.	100.	0.	0.	**	**	**	**
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	07/22/81-07/22/81	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: APIS0188

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00400	PH	Fresh Chronic	9.	6	0	0.00	6	0	0.00									
		Other-Lo Lim.	6.5	6	0	0.00	6	0	0.00									
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	3	0	0.00	3	0	0.00									
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	3	0	0.00	3	0	0.00									
		Drinking Water	0.2	3	0	0.00	3	0	0.00									
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	3	0	0.00	3	0	0.00									
		Drinking Water	2.	3	0	0.00	3	0	0.00									
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	3	0	0.00	3	0	0.00									
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	3	0	0.00	3	0	0.00									
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	3	0	0.00	3	0	0.00									
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	3	0	0.00	3	0	0.00									
39388	ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute	0.22	3	0	0.00	3	0	0.00									
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	3	0	0.00	3	0	0.00									
		Drinking Water	2.	3	0	0.00	3	0	0.00									
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	3	0	0.00	3	0	0.00									
		Drinking Water	3.	3	0	0.00	3	0	0.00									
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	3	0	0.00	3	0	0.00									
		Drinking Water	0.4	3	0	0.00	3	0	0.00									
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	3	0	0.00	3	0	0.00									
		Drinking Water	0.2	3	0	0.00	3	0	0.00									
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	3	0	0.00	3	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	6	0	0.00	6	0	0.00									
		Drinking Water	2.	6	0	0.00	6	0	0.00									

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

Station Inventory for Station: APIS0189

NPS Station ID: APIS0189 | LAT/LON: 46.726170/ -90.907505 | Agency: 21WIS | Date Created: 12/28/93
Location: LITTLE SIOUX R FRIENDLY VALLEY | FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): 043096 /8280AA043096/4904W183096
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 04010301 | Depth of Water: 0 | Aquifer:
Major Basin: LAKE SUPERIOR | Elevation: 55 | Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN | ECO Region:
RF1 Index: 04010301 | RF1 Mile Point: 0.000 | Distance from RF1: 13.80 | On/Off RF1:
RF3 Index: 04010301001007.02 | RF3 Mile Point: 10.66 | Distance from RF3: 1.27 | On/Off RF3:
Description:
STATION FOR JOE BALL OF MADISON (608)266-7390 STATION ESTABLISHED TO MONITOR FOR CRYPTOSPORIDIUM AND GIARDIA.
SE 1/4 OF NE 1/4

Parameter Inventory for Station: APIS0189

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	12/14/93-10/17/94	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	12/14/93-10/17/94	10	4.05	6.61	18.	1.7	36.61	6.051	1.7	2.075	12.75	17.7
00500	RESIDUE, TOTAL (MG/L)	12/14/93-01/24/94	2	83.	83.	84.	82.	2.	1.414	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/28/94-10/17/94	8	18.	28.375	84.	4.	706.839	26.586	**	**	**	**
31633	E.COLI,THERMOTOL,MF,M-TEC,IN SITU UREASE #/100ML	06/28/94-06/28/94	1	30.	30.	30.	30.	0.	0.	**	**	**	**
31633	LOG E.COLI,THERMOTOL,MF,M-TEC,IN SITU UREASE #/100	06/28/94-06/28/94	1	1.477	1.477	1.477	1.477	0.	0.	**	**	**	**
31633	GM E.COLI,THERMOTOL,MF,M-TEC,IN SITU UREASE #/100M	GEOMETRIC MEAN =			30.								
31639	ENTEROCOCCI GROUP D,MF TRANS,M-E,EIA #/100ML	06/28/94-06/28/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
31639	LOG ENTEROCOCCI GROUP D,MF TRANS,M-E,EIA #/100ML	06/28/94-06/28/94	1 ##	0.699	0.699	0.699	0.699	0.	0.	**	**	**	**
31639	GM ENTEROCOCCI GROUP D,MF TRANS,M-E,EIA #/100ML	GEOMETRIC MEAN =			5.								

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

EPA Water Quality Criteria Analysis for Station: APIS0189

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	10	0	0.00	4	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00

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

Station Inventory for Station: APIS0190

NPS Station ID: APIS0190
LAT/LON: 46.933615/ -90.934726
Agency: 112WRD
Date Created: 03/10/90
Location: SAND RIVER AT MOUTH NEAR CORNUCOPIA, WI
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 04026205
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 04010301072600.00
RF3 Mile Point: 0.00
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0190

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/89-08/22/89	1	19.5	19.5	19.5	19.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/89-08/22/89	1	140.	140.	140.	140.	0.	0.	**	**	**	**
39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	08/22/89-08/22/89	1	2.	2.	2.	2.	0.	0.	**	**	**	**
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/22/89-08/22/89	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/22/89-08/22/89	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	08/22/89-08/22/89	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0191

NPS Station ID: APIS0191
LAT/LON: 46.900004/ -90.955559
Agency: 112WRD
Date Created: 12/02/81
Location: SAND RIVER NEAR RED CLIFF, WI
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 04026190
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 4.20
On/Off RF1:
RF3 Index: 04010301000425.85
RF3 Mile Point: 25.97
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0191

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/10/80-07/16/84	10	11.	8.95	16.5	0.5	50.803	7.128	0.5	0.875	15.625	16.45
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/22/83-06/08/84	2	25.	25.	30.	20.	50.	7.071	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	06/22/83-07/16/84	2	745.	745.	746.	744.	2.	1.414	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	01/10/80-07/16/84	70	80.	223.943	927.	4.	77615.852	278.596	6.	24.5	390.25	766.1
00065	STAGE, STREAM (FEET)	06/22/83-06/22/83	1	7.78	7.78	7.78	7.78	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/10/80-07/16/84	10	151.	146.7	223.	60.	3302.9	57.471	61.8	81.75	200.5	220.9
00300	OXYGEN, DISSOLVED MG/L	06/22/83-07/16/84	2	9.55	9.55	9.7	9.4	0.045	0.212	**	**	**	**
00400	PH (STANDARD UNITS)	06/22/83-07/16/84	3	8.	8.033	8.2	7.9	0.023	0.153	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/22/83-07/16/84	3	8.	8.016	8.2	7.9	0.024	0.154	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/22/83-07/16/84	3	0.01	0.01	0.013	0.006	0.	0.003	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/14/82-07/16/84	6	7.85	7.883	8.4	7.5	0.094	0.306	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/14/82-07/16/84	6	7.847	7.805	8.4	7.5	0.101	0.318	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/14/82-07/16/84	6	0.014	0.016	0.032	0.004	0.	0.009	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/16/84-07/16/84	1	106.	106.	106.	106.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/23/81-02/23/81	1	33.	33.	33.	33.	0.	0.	**	**	**	**
00602	NITROGEN, DISSOLVED (MG/L AS N)	04/14/82-04/15/82	2	0.615	0.615	0.71	0.52	0.018	0.134	**	**	**	**
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	04/14/82-09/15/82	3	0.39	0.41	0.48	0.36	0.004	0.062	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	04/14/82-07/16/84	6	0.055	0.059	0.16	0.005	0.003	0.054	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	04/14/82-07/16/84	6	0.015	0.022	0.07	0.005	0.001	0.025	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	04/14/82-04/15/82	2	0.085	0.085	0.09	0.08	0.	0.007	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	04/14/82-07/16/84	6	0.46	0.57	1.7	0.05	0.342	0.585	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/14/82-07/16/84	6 ##	0.075	0.108	0.2	0.05	0.005	0.074	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	04/14/82-04/15/82	2	0.305	0.305	0.46	0.15	0.048	0.219	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/11/80-07/16/84	48	0.09	0.105	0.34	0.01	0.004	0.066	0.02	0.063	0.138	0.191
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/14/82-07/16/84	6 ##	0.013	0.039	0.15	0.005	0.003	0.057	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/14/82-09/15/82	3	37.	50.667	81.	34.	692.333	26.312	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/14/82-07/16/84	6	18.	18.5	27.	10.	61.1	7.817	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/14/82-07/16/84	6	4.35	5.017	8.6	2.1	10.142	3.185	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	04/14/82-07/16/84	6	1.85	1.983	3.4	0.7	1.406	1.186	**	**	**	**
00931	SODIUM ADSORPTION RATIO	04/14/82-09/15/82	3	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	04/14/82-09/15/82	3	6.	6.	6.	6.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/14/82-07/16/84	6	1.3	2.133	6.4	1.2	4.375	2.092	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/14/82-07/16/84	6	1.	1.333	2.	1.	0.267	0.516	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/14/82-07/16/84	6	5.5	5.35	10.	0.1	12.455	3.529	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/14/82-07/16/84	6 ##	0.05	0.1	0.2	0.05	0.006	0.077	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	04/14/82-07/16/84	6	9.75	9.133	12.	5.3	6.967	2.639	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/14/82-07/16/84	6	104.5	102.	126.	78.	449.2	21.194	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/14/82-09/15/82	3	54.	70.667	108.	50.	1049.333	32.393	**	**	**	**

** - Less than 9 observations ## - 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: APIS0191

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70302	SOLIDS, DISSOLVED-TONS PER DAY	04/14/82-09/15/82	3	95.2	96.497	192.	2.29	8998.732	94.862	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	04/14/82-09/15/82	3	0.11	0.127	0.16	0.11	0.001	0.029	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	09/11/80-07/16/84	13	72.	61.231	95.	15.	776.859	27.872	16.6	31.5	84.	93.4
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	04/01/81-04/15/82	5	82.	73.6	83.	39.	374.8	19.36	**	**	**	**
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	04/01/81-04/15/82	5	91.	85.8	93.	62.	177.7	13.33	**	**	**	**
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	04/01/81-04/15/82	5	99.	98.8	99.	98.	0.2	0.447	**	**	**	**
70335	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM	04/01/81-04/15/82	5	100.	100.	100.	100.	0.	0.	**	**	**	**
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	04/14/82-04/15/82	4	36.	35.75	36.	35.	0.25	0.5	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	04/14/82-04/15/82	4	47.	46.75	48.	45.	1.583	1.258	**	**	**	**
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	04/14/82-04/15/82	4	55.	54.5	56.	52.	3.667	1.915	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	04/14/82-04/15/82	4	62.	61.25	63.	58.	5.583	2.363	**	**	**	**
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	04/14/82-04/15/82	4	67.5	67.5	70.	65.	4.333	2.082	**	**	**	**
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	04/14/82-09/15/82	3	0.08	0.107	0.21	0.03	0.009	0.093	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	04/14/82-04/15/82	2	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	04/14/82-04/15/82	2	0.15	0.15	0.23	0.07	0.013	0.113	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/11/80-06/22/83	46	0.28	0.323	1.	0.03	0.04	0.201	0.081	0.203	0.445	0.589
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	09/11/80-07/16/84	61	277.	573.902	2190.	4.	443890.757	666.251	14.8	57.	940.5	1860.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	09/11/80-08/28/82	56	102.	802.763	5000.	0.05	2050240.653	1431.866	0.336	4.475	874.	3932.
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	04/14/82-04/15/82	4	3.	2.75	4.	1.	1.583	1.258	**	**	**	**
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	04/14/82-04/15/82	4	18.	16.25	21.	8.	34.917	5.909	**	**	**	**
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	04/14/82-04/15/82	4	55.	54.75	62.	47.	38.25	6.185	**	**	**	**
80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	04/14/82-04/15/82	4	75.5	74.75	86.	62.	156.917	12.527	**	**	**	**
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	04/14/82-04/15/82	4	82.5	82.25	95.	69.	172.917	13.15	**	**	**	**
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	04/14/82-04/15/82	4	87.5	86.5	98.	73.	143.	11.958	**	**	**	**
80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	04/14/82-04/15/82	4	92.5	91.	99.	80.	83.333	9.129	**	**	**	**
80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	04/14/82-04/15/82	4	96.	94.75	100.	87.	32.917	5.737	**	**	**	**
80173	BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM	04/14/82-04/15/82	3	100.	98.667	100.	96.	5.333	2.309	**	**	**	**
80174	BED MATERIAL SIEVE DIAMETER,% FINER THAN 64.0MM	04/15/82-04/15/82	1	100.	100.	100.	100.	0.	0.	**	**	**	**
80203	TOTAL SEDIMENT SIEVE DIAMETER,% FINER THAN .062MM	03/16/83-04/19/83	2	62.5	62.5	65.	60.	12.5	3.536	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0191

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00							1	0	0.00
00400	PH	Fresh Chronic	9.	3	0	0.00	1	0	0.00							2	0	0.00
		Other-Lo Lim.	6.5	3	0	0.00	1	0	0.00							2	0	0.00
00403	PH, LAB	Fresh Chronic	9.	6	0	0.00	2	0	0.00				1	0	0.00	3	0	0.00
		Other-Lo Lim.	6.5	6	0	0.00	2	0	0.00				1	0	0.00	3	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	6	0	0.00	2	0	0.00				1	0	0.00	3	0	0.00
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00							1	0	0.00	1	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	6	0	0.00	2	0	0.00				1	0	0.00	3	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	6	0	0.00	2	0	0.00				1	0	0.00	3	0	0.00
		Drinking Water	250.	6	0	0.00	2	0	0.00				1	0	0.00	3	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	6	0	0.00	2	0	0.00				1	0	0.00	3	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	6	0	0.00	2	0	0.00				1	0	0.00	3	0	0.00
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	2	0	0.00							1	0	0.00	1	0	0.00
71856	NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	2	0	0.00							1	0	0.00	1	0	0.00

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

Station Inventory for Station: APIS0192

NPS Station ID: APIS0192
Location: SAND R AT STH 13
Station Type: /TYPA/AMBNT/STREAM
RMI-Indexes:
RMI-Miles:
HUC: 04010301
Major Basin: LAKE SUPERIOR
Minor Basin: LAKE SUPERIOR WESTERN BASIN
RF1 Index: 04010301
RF3 Index: 04010301002500.00
Description:

LAT/LON: 46.899253/ -90.956032
Depth of Water: 0
Elevation: 0
RF1 Mile Point: 0.000
RF3 Mile Point: 0.20

Agency: 21WIS
FIPS State/County: 55007 WISCONSIN/BAYFIELD
STORET Station ID(s): 043019 /8280AB043019/5105W
Within Park Boundary: No
Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 0.00
Distance from RF3: 0.02

Date Created: 11/17/75
On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: APIS0192

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: APIS0193

NPS Station ID: APIS0193 LAT/LON: 46.901115/ -90.956948 Agency: 21WIS Date Created: 07/16/94
Location: SAND RIVER AT HWY 13 FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 043098 /8280AA043098/5105W143098
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 55 Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
STATION FOR DAVID WEBB OF MADISON (608)264-6260 SAMPLES WERE COLLECTED AND ANALYZED USING CLEAN TECHNIQUES. THE ANALYTICAL METHODS USED WERE NOT EPA APPROVED.

Parameter Inventory for Station: APIS0193

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/07/92-04/28/93	3	0.	0.	0.	0.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	07/07/92-04/28/93	3	0.008	0.01	0.02	0.003	0.	0.009	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/07/92-04/28/93	3	0.02	0.043	0.1	0.008	0.003	0.05	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/07/92-04/28/93	3	1.	1.333	2.	1.	0.333	0.577	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/07/92-04/28/93	3	4.	5.	9.	2.	13.	3.606	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/07/92-04/28/93	3	1.	1.433	3.	0.3	1.963	1.401	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/07/92-04/28/93	3	3.	5.267	12.	0.8	35.213	5.934	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/07/92-04/28/93	3	0.01	0.026	0.06	0.008	0.001	0.029	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	07/07/92-04/28/93	3	0.9	2.	5.	0.1	6.91	2.629	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/07/92-04/28/93	3	0.4	0.467	0.9	0.1	0.163	0.404	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/07/92-04/28/93	3	5.	7.667	17.	1.	69.333	8.327	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	09/29/92-04/28/93	2	1380.5	1380.5	2500.	261.	2506560.5	1583.212	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/29/92-04/28/93	2	76.	76.	147.	5.	10082.	100.409	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	07/07/92-04/28/93	3	0.002	0.002	0.003	0.	0.	0.001	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	07/07/92-04/28/93	3	0.005	0.009	0.02	0.001	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 time series plot

EPA Water Quality Criteria Analysis for Station: APIS0193

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	3	0	0.00	1	0	0.00							2	0	0.00
		Drinking Water	5.	3	0	0.00	1	0	0.00							2	0	0.00
01027	CADMIUM, TOTAL	Fresh Acute	3.9	3	0	0.00	1	0	0.00							2	0	0.00
		Drinking Water	5.	3	0	0.00	1	0	0.00							2	0	0.00
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	3	0	0.00	1	0	0.00							2	0	0.00
01034	CHROMIUM, TOTAL	Drinking Water	100.	3	0	0.00	1	0	0.00							2	0	0.00
01040	COPPER, DISSOLVED	Fresh Acute	18.	3	0	0.00	1	0	0.00							2	0	0.00
		Drinking Water	1300.	3	0	0.00	1	0	0.00							2	0	0.00

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

EPA Water Quality Criteria Analysis for Station: APIS0193

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
01042	COPPER, TOTAL	Fresh Acute	18.	3	0	0.00	1	0	0.00							2	0	0.00
		Drinking Water	1300.	3	0	0.00	1	0	0.00							2	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute	82.	3	0	0.00	1	0	0.00							2	0	0.00
		Drinking Water	15.	3	0	0.00	1	0	0.00							2	0	0.00
01051	LEAD, TOTAL	Fresh Acute	82.	3	0	0.00	1	0	0.00							2	0	0.00
		Drinking Water	15.	3	0	0.00	1	0	0.00							2	0	0.00
01090	ZINC, DISSOLVED	Fresh Acute	120.	3	0	0.00	1	0	0.00							2	0	0.00
		Drinking Water	5000.	3	0	0.00	1	0	0.00							2	0	0.00
01092	ZINC, TOTAL	Fresh Acute	120.	3	0	0.00	1	0	0.00							2	0	0.00
		Drinking Water	5000.	3	0	0.00	1	0	0.00							2	0	0.00
71890	MERCURY, DISSOLVED	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	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 criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: APIS0194

NPS Station ID: APIS0194
LAT/LON: 46.995837/ -90.958338
Agency: 21WIDNR
Date Created: 08/08/78
Location: LAKE SUPERIOR N OF SAND ISLAND
FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 113
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 999
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: WISC + MINN DRAINAGE
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
DATA FROM WISCONSIN DEPARTMENT OF NATURAL RESOURCES FISH SAMPLING PROGRAMS FOR MERCURY, PCBS, AND PESTICIDES
SAMPLE TAKEN FROM LAKE SUPERIOR NORTH OF SAND ISLAND

Parameter Inventory for Station: APIS0194

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/23/76-07/23/76	1	61.	61.	61.	61.	0.	0.	**	**	**	**
00024	SAMPLE LENGTH IN INCHES	07/23/76-07/23/76	1	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
39105	PERCENT FAT HEXANE EXTRACTION	07/23/76-07/23/76	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
39515	PCBS (MG/KG) FISH TISSUE MG/KG	07/23/76-07/23/76	1	0.82	0.82	0.82	0.82	0.	0.	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	07/23/76-07/23/76	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

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

Station Inventory for Station: APIS0195

NPS Station ID: APIS0195
Location: OPEN LAKE STATION
Station Type: /TYPA/AMBNT/LAKE
RMI-Indexes:
RMI-Miles:
HUC: 04020300
Major Basin:
Minor Basin:
RF1 Index: 04020300
RF3 Index: 04010301001007.02
Description:

LAT/LON: 47.010003/ -90.981948
Depth of Water: 150
Elevation: 0
RF1 Mile Point: 0.000
RF3 Mile Point: 10.66

Agency: AIJCCCIW
FIPS State/County: 00996 CANADA/
STORET Station ID(s): C90SU198
Within Park Boundary: No
Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 13.80
Distance from RF3: 1.27

Date Created: 12/17/94
On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: APIS0195

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/06/90-09/07/90	12	93.5	82.5	167.	0.	5538.455	74.421	0.	3.	158.25	166.1
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/06/90-09/07/90	2	7.8	7.8	13.2	2.4	58.32	7.637	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/06/90-09/07/90	6	105.5	106.5	111.	102.	11.5	3.391	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/06/90-09/07/90	6	12.45	12.45	14.	11.5	0.779	0.883	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/06/90-09/07/90	6	106.5	105.667	113.	98.	37.867	6.154	**	**	**	**
00400	PH (STANDARD UNITS)	05/06/90-09/07/90	6	7.075	7.063	7.26	6.85	0.028	0.168	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/06/90-09/07/90	6	7.072	7.036	7.26	6.85	0.029	0.171	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/06/90-09/07/90	6	0.085	0.092	0.141	0.055	0.001	0.035	**	**	**	**
00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/06/90-09/07/90	2	0.024	0.024	0.027	0.021	0.	0.004	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/06/90-05/06/90	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/06/90-09/07/90	6	0.109	0.108	0.158	0.059	0.001	0.035	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/06/90-05/06/90	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/06/90-09/07/90	6	0.004	0.004	0.005	0.002	0.	0.001	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/06/90-09/07/90	6	0.002	0.002	0.002	0.001	0.	0.001	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/06/90-05/06/90	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/06/90-09/07/90	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/06/90-09/07/90	6	13.55	13.533	13.6	13.4	0.007	0.082	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/06/90-09/07/90	6	1.	1.	1.	1.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/06/90-09/07/90	6	2.75	2.833	3.3	2.7	0.055	0.234	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/06/90-09/07/90	6	2.4	2.433	2.6	2.3	0.023	0.151	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/06/90-09/07/90	1	1.	1.	1.	1.	0.	0.	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/06/90-09/07/90	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/06/90-09/07/90	6	41.	41.333	42.	41.	0.267	0.516	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0195

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	6	0	0.00	5	0	0.00							1	0	0.00
00400	PH	Fresh Chronic	9.	6	0	0.00	5	0	0.00							1	0	0.00
		Other-Lo Lim.	6.5	6	0	0.00	5	0	0.00							1	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00										1	0	0.00
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	6	0	0.00	5	0	0.00							1	0	0.00
		Drinking Water	250.	6	0	0.00	5	0	0.00							1	0	0.00

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

EPA Water Quality Criteria Analysis for Station: APIS0195

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	6	0	0.00	5	0	0.00							1	0	0.00

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

Station Inventory for Station: APIS0196

NPS Station ID: APIS0196
LAT/LON: 47.010281/ -90.983059
Agency: AIJCCCIW
Date Created: 12/17/94
Location: OPEN LAKE STATION
FIPS State/County: 00996 CANADA/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): C92SU198
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 170
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0196

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/11/92-09/09/92	12	98.5	88.583	167.	0.	5561.356	74.575	0.	3.	163.25	166.1
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/11/92-09/09/92	2	7.7	7.7	12.7	2.7	50.	7.071	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/11/92-05/11/92	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	05/11/92-05/11/92	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/11/92-09/09/92	6	99.5	100.167	104.	98.	6.567	2.563	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/11/92-09/09/92	6	11.7	11.933	14.4	10.7	1.863	1.365	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/11/92-09/09/92	6	102.5	101.5	108.	96.	19.5	4.416	**	**	**	**
00400	PH (STANDARD UNITS)	05/11/92-09/09/92	6	7.615	7.583	7.83	7.15	0.07	0.264	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/11/92-09/09/92	6	7.602	7.511	7.83	7.15	0.076	0.276	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/11/92-09/09/92	6	0.025	0.031	0.071	0.015	0.	0.021	**	**	**	**
00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/11/92-09/09/92	2	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/11/92-05/11/92	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/11/92-09/09/92	6	0.119	0.114	0.127	0.084	0.	0.015	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/11/92-05/11/92	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/11/92-09/09/92	6	0.005	0.005	0.006	0.003	0.	0.001	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/11/92-09/09/92	6	0.002	0.002	0.003	0.002	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/11/92-05/11/92	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/11/92-09/09/92	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/11/92-05/11/92	1	13.3	13.3	13.3	13.3	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/11/92-09/09/92	6	1.	1.167	2.	1.	0.167	0.408	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/11/92-09/09/92	6	3.2	3.25	3.6	3.1	0.035	0.187	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/11/92-09/09/92	6	2.4	2.417	2.6	2.3	0.014	0.117	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/11/92-09/09/92	2	0.75	0.75	0.8	0.7	0.005	0.071	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/11/92-09/09/92	2	0.35	0.35	0.4	0.3	0.005	0.071	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/11/92-09/09/92	6	42.	42.5	48.	38.	10.3	3.209	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0196

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	6	0	0.00	5	0	0.00							1	0	0.00
00400	PH	Fresh Chronic	9.	6	0	0.00	5	0	0.00							1	0	0.00
		Other-Lo Lim.	6.5	6	0	0.00	5	0	0.00							1	0	0.00

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

EPA Water Quality Criteria Analysis for Station: APIS0196

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00										1	0	0.00
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	6	0	0.00	5	0	0.00							1	0	0.00
		Drinking Water	250.	6	0	0.00	5	0	0.00							1	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	6	0	0.00	5	0	0.00							1	0	0.00

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

Station Inventory for Station: APIS0197

NPS Station ID: APIS0197 | LAT/LON: 47.010003/ -90.983337 | Agency: AIJCCCIW | Date Created: 09/30/77
Location: 1 MI NW OF SAND ISLAND,WISCONSIN | FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE | STORET Station ID(s): C76SU028
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 04020300 | Depth of Water: 1508 | Aquifer:
Major Basin: GREAT LAKES | Elevation: 0 | Water Body Id:
Minor Basin: L. SUPERIOR-CANADIAN 1976 STATION #28 | ECO Region:
RF1 Index: 04020300 | RF1 Mile Point: 0.000 | Distance from RF1: 13.80 | On/Off RF1:
RF3 Index: 04010301001007.02 | RF3 Mile Point: 10.66 | Distance from RF3: 1.27 | 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. USEPA CONTACTS: NELSON THOMAS OR WILLIAM RICHARDSON, 313-226-7811. DATA FOR THIS STATION IN 1976 WAS COLLECTED IN PART FOR THE IJC INTERNATIONAL SURVEILLANCE PROGRAM FOR THE GREAT LAKES. ADDITIONAL INFORMATION ON GREAT LAKES CANADIAN DATA IS ON DATA SET CN.EPANAT.CNLL.CANADA.NEWS AT THE STORET COMPUTER SITE.

Parameter Inventory for Station: APIS0197

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/16/76-06/16/76	5	16.	56.	150.	0.	4851.5	69.653	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/76-06/16/76	5	6.7	6.02	6.8	4.9	0.957	0.978	**	**	**	**
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	06/16/76-06/16/76	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/16/76-06/16/76	4	0.85	0.875	1.1	0.7	0.029	0.171	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	06/16/76-06/16/76	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	06/16/76-06/16/76	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/16/76-06/16/76	4	98.	98.	99.	97.	0.667	0.816	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/16/76-06/16/76	4	12.65	12.65	12.8	12.5	0.03	0.173	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/16/76-06/16/76	4	103.	103.	104.	102.	1.333	1.155	**	**	**	**
00400	PH (STANDARD UNITS)	06/16/76-06/16/76	4	7.68	7.683	7.7	7.67	0.	0.013	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/16/76-06/16/76	4	7.68	7.682	7.7	7.67	0.	0.013	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/16/76-06/16/76	4	0.021	0.021	0.021	0.02	0.	0.001	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/16/76-06/16/76	4	41.	41.	41.	41.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	06/16/76-06/16/76	4	0.001	0.001	0.002	0.001	0.	0.001	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/16/76-06/16/76	4	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/16/76-06/16/76	4	0.006	0.006	0.007	0.006	0.	0.001	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	06/16/76-06/16/76	4	0.003	0.003	0.004	0.003	0.	0.001	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/16/76-06/16/76	4	0.001	0.001	0.001	0.	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	06/16/76-06/16/76	4	0.09	0.093	0.1	0.09	0.	0.005	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/16/76-06/16/76	4	13.	13.	13.	13.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/16/76-06/16/76	4	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/16/76-06/16/76	4	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/16/76-06/16/76	4	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/16/76-06/16/76	4	1.	1.	1.	1.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	06/16/76-06/16/76	4	2.6	2.6	2.7	2.5	0.007	0.082	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/16/76-06/16/76	4	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**

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

Parameter Inventory for Station: APIS0197

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01040	COPPER, DISSOLVED (UG/L AS CU)	06/16/76-06/16/76	4	1.	0.875	1.	0.5	0.063	0.25	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	06/16/76-06/16/76	4	2.	2.25	3.	2.	0.25	0.5	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	06/16/76-06/16/76	4	1.	1.	1.	1.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	06/16/76-06/16/76	4	1.	1.	1.	1.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	06/16/76-06/16/76	4	3.5	6.	15.	2.	36.667	6.055	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0197

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	4	0	0.00										4	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	4	0	0.00										4	0	0.00
00400	PH	Fresh Chronic	9.	4	0	0.00										4	0	0.00
		Other-Lo Lim.	6.5	4	0	0.00										4	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	4	0	0.00										4	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	4	0	0.00										4	0	0.00
		Drinking Water	250.	4	0	0.00										4	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	4	0	0.00										4	0	0.00
01040	COPPER, DISSOLVED	Fresh Acute	18.	4	0	0.00										4	0	0.00
		Drinking Water	1300.	4	0	0.00										4	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute	82.	4	0	0.00										4	0	0.00
		Drinking Water	15.	4	0	0.00										4	0	0.00
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	4	0	0.00										4	0	0.00
		Drinking Water	100.	4	0	0.00										4	0	0.00
01090	ZINC, DISSOLVED	Fresh Acute	120.	4	0	0.00										4	0	0.00
		Drinking Water	5000.	4	0	0.00										4	0	0.00

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

Station Inventory for Station: APIS0198

NPS Station ID: APIS0198 LAT/LON: 47.010003/ -90.983337 Agency: AIJCCCIW Date Created: 02/09/78
Location: 1 MI NORTH OF SAND I.,WISCONSON FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): C73SU198
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04020300 Depth of Water: 2033 Aquifer:
Major Basin: GREAT LAKES Elevation: 0 Water Body Id:
Minor Basin: L. SUPERIOR CANADIAN 1973 STATION #198 ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 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. USEPA CONTACTS: NELSON THOMAS OR WILLIAM RICHARDSON, 313-226-7811. DATA FOR THIS STATION IN 1973 WAS COLLECTED IN PART FOR THE IJC INTERNATIONAL SURVEILLANCE PROGRAM FOR THE GREAT LAKES. ADDITIONAL INFORMATION ON GREAT LAKES CANADIAN DATA IS ON DATA SET CN.EPANAT.CNLL.CANADA.NEWS AT THE STORET COMPUTER SITE.

Parameter Inventory for Station: APIS0198

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/22/73-11/28/73	35	16.	48.457	173.	0.	3534.138	59.449	0.	3.	81.	163.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/73-11/28/73	33	6.2	8.261	17.6	3.9	21.215	4.606	4.32	4.7	11.15	16.56
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	05/22/73-11/28/73	20	36.5	33.25	58.	9.	144.303	12.013	18.	23.	42.5	44.9
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/22/73-11/28/73	27	1.1	1.159	3.2	0.5	0.409	0.639	0.5	0.6	1.4	2.
00078	TRANSPARENCY, SECCHI DISC (METERS)	10/24/73-10/24/73	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	10/24/73-10/24/73	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/22/73-11/28/73	27	12.2	12.044	13.5	10.1	1.156	1.075	10.18	11.6	13.	13.5
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/22/73-11/28/73	27	103.	102.741	110.	92.	23.123	4.809	96.	99.	107.	109.2
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/22/73-11/28/73	22	42.	42.318	43.	42.	0.227	0.477	42.	42.	43.	43.
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/22/73-11/28/73	27	0.007	0.008	0.02	0.002	0.	0.004	0.003	0.005	0.011	0.015
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/22/73-11/28/73	27	0.3	0.296	0.4	0.2	0.001	0.034	0.28	0.3	0.3	0.3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/22/73-11/28/73	18	0.007	0.007	0.01	0.003	0.	0.002	0.004	0.006	0.008	0.01
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/22/73-11/28/73	17	0.004	0.004	0.007	0.002	0.	0.001	0.003	0.004	0.006	0.006
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/22/73-11/28/73	27	0.001	0.001	0.004	0.	0.	0.001	0.001	0.001	0.002	0.003
00940	CHLORIDE,TOTAL IN WATER MG/L	05/22/73-10/24/73	14	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/22/73-11/28/73	27	2.4	2.448	2.9	2.1	0.026	0.16	2.26	2.4	2.6	2.6
31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	06/26/73-10/24/73	11	6.	19.369	56.	0.03	463.022	21.518	0.03	1.	35.	54.4
31503	LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	06/26/73-10/24/73	11	0.778	0.547	1.748	-1.523	1.484	1.218	-1.523	0.	1.544	1.735
31503	GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =			3.524								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/06/73-08/06/73	1	1.	1.	1.	1.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/06/73-08/06/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/22/73-10/24/73	6	1.	3.667	16.	1.	36.667	6.055	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/22/73-10/24/73	6	0.	0.251	1.204	0.	0.233	0.482	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			1.782								
31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	06/26/73-11/28/73	9	150.	162.889	320.	56.	7515.361	86.691	56.	88.5	225.5	320.

** - Less than 9 observations ## - 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: APIS0198

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31749	LOG PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	06/26/73-11/28/73	9	2.176	2.154	2.505	1.748	0.06	0.245	1.748	1.947	2.348	2.505
31749	GM PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	GEOMETRIC MEAN =			142.469								

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

EPA Water Quality Criteria Analysis for Station: APIS0198

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	27	0	0.00	17	0	0.00							10	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	27	0	0.00	17	0	0.00							10	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	27	0	0.00	17	0	0.00							10	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	14	0	0.00	9	0	0.00							5	0	0.00
		Drinking Water	250.	14	0	0.00	9	0	0.00							5	0	0.00
31503	COLIFORM,TOT,MEMBRANE FILTR,DELAY. M-END	Other-Hi Lim.	1000.	11	0	0.00	9	0	0.00							2	0	0.00
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0199

NPS Station ID: APIS0199
LAT/LON: 47.006948/ -90.983616
Agency: AIJCCCIW
Date Created: 11/02/85
Location: OPEN LAKE STATION
FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): C83SU198
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 114
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: OPEN LAKE STATION
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0199

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/24/83-10/21/83	24	92.	81.	174.	0.	4478.957	66.925	0.	3.	142.5	164.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/24/83-10/21/83	20	6.25	7.97	19.1	3.3	27.966	5.288	3.43	4.	9.975	19.09
00078	TRANSPARENCY, SECCHI DISC (METERS)	06/28/83-06/28/83	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	06/28/83-06/28/83	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/24/83-10/21/83	16	106.	106.563	121.	99.	34.129	5.842	99.7	100.75	109.	115.4
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/24/83-10/21/83	16	12.6	12.4	13.6	9.8	1.315	1.147	9.8	12.1	13.1	13.6
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/24/83-10/21/83	16	104.	104.5	116.	99.	16.533	4.066	99.7	102.	107.25	110.4
00400	PH (STANDARD UNITS)	05/24/83-10/21/83	16	7.94	7.934	8.24	7.67	0.026	0.163	7.698	7.818	8.	8.233
00400	CONVERTED PH (STANDARD UNITS)	05/24/83-10/21/83	16	7.94	7.907	8.24	7.67	0.027	0.165	7.698	7.817	8.	8.233
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/24/83-10/21/83	16	0.011	0.012	0.021	0.006	0.	0.004	0.006	0.01	0.015	0.02
00601	NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	05/24/83-10/21/83	4	0.022	0.022	0.03	0.014	0.	0.007	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/24/83-10/21/83	16	0.001	0.001	0.002	0.001	0.	0.001	0.001	0.001	0.002	0.002
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/24/83-10/21/83	16	0.092	0.09	0.113	0.071	0.	0.012	0.072	0.08	0.098	0.106
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/24/83-10/21/83	16	0.3	0.3	0.3	0.3	0.	0.	0.3	0.3	0.3	0.3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/24/83-10/21/83	16	0.004	0.004	0.005	0.003	0.	0.001	0.003	0.003	0.005	0.005
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/24/83-10/21/83	16	0.002	0.002	0.004	0.002	0.	0.001	0.002	0.002	0.002	0.003
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/24/83-10/21/83	16	0.001	0.001	0.001	0.	0.	0.	0.	0.001	0.001	0.001
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	05/24/83-10/21/83	16	1.6	1.65	2.2	1.3	0.043	0.207	1.37	1.525	1.7	1.99
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/24/83-10/21/83	4	0.15	0.15	0.2	0.1	0.003	0.058	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/24/83-10/21/83	11	13.5	13.391	13.6	13.1	0.027	0.164	13.12	13.2	13.5	13.58
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/24/83-10/21/83	11	2.8	2.791	2.9	2.7	0.003	0.054	2.7	2.8	2.8	2.88
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/24/83-10/21/83	11	1.4	1.355	1.4	1.3	0.003	0.052	1.3	1.3	1.4	1.4
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/24/83-10/21/83	11	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/24/83-10/21/83	16	3.45	3.456	3.7	3.3	0.019	0.136	3.3	3.3	3.6	3.63
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/24/83-10/21/83	16	2.4	2.35	2.5	2.1	0.016	0.126	2.1	2.3	2.4	2.5
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/24/83-10/21/83	4	1.3	1.325	1.5	1.2	0.023	0.15	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/24/83-10/21/83	4	1.	0.975	1.2	0.7	0.043	0.206	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/24/83-10/21/83	16	40.5	41.	44.	39.	3.067	1.751	39.	40.	42.	44.
82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	05/24/83-10/21/83	16	1.4	1.45	1.8	1.3	0.02	0.141	1.3	1.4	1.5	1.73

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

EPA Water Quality Criteria Analysis for Station: APIS0199

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	16	0	0.00	8	0	0.00							8	0	0.00
00400	PH	Fresh Chronic	9.	16	0	0.00	8	0	0.00							8	0	0.00
		Other-Lo Lim.	6.5	16	0	0.00	8	0	0.00							8	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	16	0	0.00	8	0	0.00							8	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	16	0	0.00	8	0	0.00							8	0	0.00
82295	CHLORIDE DISSOLVED AS CL IN WATER	Fresh Acute	860000.	16	0	0.00	8	0	0.00							8	0	0.00
		Drinking Water	250000.	16	0	0.00	8	0	0.00							8	0	0.00

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

Station Inventory for Station: APIS0200

NPS Station ID: APIS0200
LAT/LON: 47.010003/ -90.983616
Agency: AIJCCCIW
Date Created: 12/17/94
Location: OPEN LAKE STATION
FIPS State/County: 00996 CANADA/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): C89SU198
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 173
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0200

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/06/89-05/06/89	4	82.	81.25	161.	0.	8481.583	92.096	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/06/89-05/06/89	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/06/89-05/06/89	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	05/06/89-05/06/89	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/06/89-05/06/89	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/06/89-05/06/89	1	102.	102.	102.	102.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/06/89-05/06/89	1	7.83	7.83	7.83	7.83	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/06/89-05/06/89	1	7.83	7.83	7.83	7.83	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/06/89-05/06/89	1	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/06/89-05/06/89	1	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/06/89-05/06/89	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/06/89-05/06/89	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/06/89-05/06/89	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/06/89-05/06/89	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/06/89-05/06/89	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/06/89-05/06/89	1	12.7	12.7	12.7	12.7	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/06/89-05/06/89	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/06/89-05/06/89	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/06/89-05/06/89	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/06/89-05/06/89	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/06/89-05/06/89	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/06/89-05/06/89	1	38.	38.	38.	38.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0200

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00										1	0	0.00
00400	PH	Fresh Chronic	9.	1	0	0.00										1	0	0.00
		Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00										1	0	0.00
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00										1	0	0.00
		Drinking Water	250.	1	0	0.00										1	0	0.00

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

EPA Water Quality Criteria Analysis for Station: APIS0200

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00946 SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00										1	0	0.00

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

Station Inventory for Station: APIS0201

NPS Station ID: APIS0201
LAT/LON: 47.010003/ -90.984170
Agency: AIJCCCIW
Date Created: 04/09/88
Location: OPEN LAKE STATION
FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): C86SU198
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 183
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: OPEN LAKE STATION
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0201

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/16/86-05/06/89	13	30.	68.923	187.	0.	6132.91	78.313	0.	1.5	162.5	181.8
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/86-05/06/89	11	4.3	3.755	6.	1.6	3.689	1.921	1.6	1.6	6.	6.
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/16/86-05/06/89	3	6.	5.5	7.	3.5	3.25	1.803	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	05/16/86-05/06/89	3	8.	9.333	13.	7.	10.333	3.215	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/86-05/16/87	2	96.	96.	98.	94.	8.	2.828	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/16/86-05/06/89	3	13.9	13.8	14.	13.5	0.07	0.265	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/16/86-05/06/89	3	102.	104.667	112.	100.	41.333	6.429	**	**	**	**
00400	PH (STANDARD UNITS)	05/16/86-05/06/89	3	7.83	7.8	7.83	7.74	0.003	0.052	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/16/86-05/06/89	3	7.83	7.798	7.83	7.74	0.003	0.052	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/16/86-05/06/89	3	0.015	0.016	0.018	0.015	0.	0.002	**	**	**	**
00601	NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	05/16/87-05/06/89	2	0.02	0.02	0.025	0.015	0.	0.007	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/16/86-05/06/89	3	0.003	0.002	0.003	0.001	0.	0.001	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/16/86-05/06/89	3	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/16/86-05/06/89	3	0.004	0.005	0.008	0.003	0.	0.003	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/16/86-05/06/89	3	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/16/86-05/06/89	3	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/16/87-05/06/89	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/16/86-05/06/89	3	13.2	13.167	13.6	12.7	0.203	0.451	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/16/86-05/06/89	3	3.4	3.333	3.6	3.	0.093	0.306	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/16/86-05/06/89	3	2.5	2.467	2.5	2.4	0.003	0.058	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/16/87-05/06/89	2	1.25	1.25	1.7	0.8	0.405	0.636	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/16/87-05/06/89	2	1.	1.	1.2	0.8	0.08	0.283	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/16/86-05/06/89	3	41.	40.	41.	38.	3.	1.732	**	**	**	**
82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	05/16/86-05/06/89	3	1.5	1.467	1.6	1.3	0.023	0.153	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0201

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	3	0	0.00										3	0	0.00
00400	PH	Fresh Chronic	9.	3	0	0.00										3	0	0.00
		Other-Lo Lim.	6.5	3	0	0.00										3	0	0.00
00631	NITRITE 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 criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: APIS0201

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	3	0	0.00										3	0	0.00
82295	CHLORIDE DISSOLVED AS CL IN WATER	Fresh Acute	860000.	3	0	0.00										3	0	0.00
		Drinking Water	250000.	3	0	0.00										3	0	0.00

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

Station Inventory for Station: APIS0202

NPS Station ID: APIS0202
LAT/LON: 47.011116/ -90.985838
Agency: AIJCCCIW
Date Created: 12/17/94
Location: OPEN LAKE STATION
FIPS State/County: 00996 CANADA/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): C91SU198
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 173
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0202

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/15/91-09/03/91	13	92.	87.462	167.	0.	5700.436	75.501	0.	3.	164.	165.8
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/91-09/03/91	2	7.15	7.15	11.9	2.4	45.125	6.718	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/15/91-05/15/91	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	05/15/91-05/15/91	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/91-09/03/91	7	103.	102.714	105.	99.	3.571	1.89	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/15/91-09/03/91	7	12.5	12.271	13.8	10.6	1.269	1.127	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/15/91-09/03/91	7	101.	100.286	106.	95.	12.571	3.546	**	**	**	**
00400	PH (STANDARD UNITS)	05/15/91-09/03/91	7	7.5	7.479	7.94	7.02	0.075	0.273	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/15/91-09/03/91	7	7.5	7.405	7.94	7.02	0.081	0.285	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/15/91-09/03/91	7	0.032	0.039	0.095	0.011	0.001	0.027	**	**	**	**
00604	NITROGEN AMMONIA SUSPENDED IN WATER (MG/L AS N)	05/15/91-09/03/91	2	0.024	0.024	0.03	0.017	0.	0.009	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/15/91-05/15/91	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	05/15/91-09/03/91	7	0.075	0.08	0.101	0.05	0.	0.018	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/15/91-05/15/91	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/15/91-09/03/91	7	0.003	0.003	0.004	0.002	0.	0.001	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/15/91-09/03/91	7	0.002	0.002	0.002	0.001	0.	0.001	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/15/91-05/15/91	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/15/91-09/03/91	2	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/15/91-09/03/91	7	1.	1.	1.	1.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/15/91-09/03/91	7	3.4	3.457	3.7	3.1	0.043	0.207	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/15/91-09/03/91	7	2.5	2.5	2.6	2.4	0.007	0.082	**	**	**	**
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	05/15/91-09/03/91	2	0.35	0.35	0.5	0.2	0.045	0.212	**	**	**	**
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/15/91-09/03/91	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/15/91-09/03/91	7	37.	37.429	41.	36.	3.286	1.813	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0202

				Total	Exceed	Prop.	7/15-11/30			12/01-2/29			3/01-4/14			4/15-7/14		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	7	0	0.00	6	0	0.00							1	0	0.00
00400	PH	Fresh Chronic	9.	7	0	0.00	6	0	0.00							1	0	0.00
		Other-Lo Lim.	6.5	7	0	0.00	6	0	0.00							1	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00										1	0	0.00

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

EPA Water Quality Criteria Analysis for Station: APIS0202

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	7	0	0.00	6	0	0.00							1	0	0.00
		Drinking Water	250.	7	0	0.00	6	0	0.00							1	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	7	0	0.00	6	0	0.00							1	0	0.00

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

Station Inventory for Station: APIS0203

NPS Station ID: APIS0203 LAT/LON: 46.961115/ -90.991281 Agency: 11NPSWRD Date Created: 03/21/98
Location: LAKE SUPERIOR 1 MILE SOUTHWEST OF SAND ISLAND FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): APIS_SAND_IS
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: MONTREAL ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE SAND ISLAND WISCONSIN-BAYFIELD CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON LAKE SUPERIOR APPROXIMATELY 1 MILE SOUTHWEST OF SAND ISLAND. SAMPLES FOR THIS SITE WERE COLLECTED MONTHLY OVER THE SUMMER OF 1996. SAMPLES WERE ANALYZED FOR PHYSICAL PARAMETERS AND NUTRIENT CONCENTRATIONS. THE RESULTS ARE IN "LAKE SUPERIOR FOOD WEB - APOSTLE ISLANDS ONRW" BY LAKE SUPERIOR ECOSYSTEM RESEARCH CENTER; MICHIGAN TECHNOLOGY UNIVERSITY (JUNE 1997). THE DATA WERE RECEIVED IN DIGITAL FORMAT FROM NATURAL RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE. LAT/LONG COORDINATES ARE THE CENTROID OF THREE LORAN READINGS (1 FOR EACH MONTH SAMPLED). FOR MORE INFORMATION CONTACT CHIEF OF RESOURCES AT APOSTLE ISLANDS NATIONAL LAKESHORE; ROUTE 1 BOX 4; BAYFIELD WISCONSIN 54814. TEL (715) 779-3397. DATA WERE PROCESSED AND UPLOADED TO STORET BY PAUL MCELVERY AT NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS COLORADO 80525. TEL (970) 225-3516.

Parameter Inventory for Station: APIS0203

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/12/96-08/21/96	52	33.	31.115	60.	0.	340.928	18.464	4.2	13.75	48.5	52.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/12/96-08/21/96	43	8.7	9.226	18.	3.9	23.088	4.805	3.9	5.1	12.6	16.76
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	06/12/96-08/21/96	43	65.	67.33	75.6	60.	49.444	7.032	60.	60.	75.6	75.6
00078	TRANSPARENCY, SECCHI DISC (METERS)	06/12/96-08/21/96	3	7.35	9.337	17.	3.66	47.449	6.888	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/12/96-08/21/96	43	98.	100.279	106.	96.	16.206	4.026	96.	97.	105.	106.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/12/96-08/21/96	43	11.7	11.679	13.3	10.1	1.446	1.203	10.1	10.4	12.6	13.3
00406	PH, FIELD, STANDARD UNITS SU	06/12/96-08/21/96	43	7.65	7.608	8.07	7.04	0.089	0.298	7.28	7.32	7.83	8.05
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/12/96-08/21/96	43	7.65	7.515	8.07	7.04	0.098	0.312	7.28	7.32	7.83	8.05
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/12/96-08/21/96	43	0.022	0.031	0.091	0.009	0.	0.019	0.009	0.015	0.048	0.052
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/12/96-08/21/96	9	0.4	0.356	0.5	0.2	0.008	0.088	0.2	0.3	0.4	0.5
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/12/96-08/21/96	9 ##	0.005	0.007	0.01	0.005	0.	0.003	0.005	0.005	0.01	0.01
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/12/96-08/21/96	9	2.3	2.056	2.9	1.2	0.48	0.693	1.2	1.3	2.75	2.9
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/12/96-08/21/96	3	0.2	0.333	0.6	0.2	0.053	0.231	**	**	**	**
46480	OXIDATION REDUCTION POTENTIAL, FIELD MV	06/12/96-08/21/96	43	330.	333.488	354.	315.	250.78	15.836	316.	319.	352.	353.
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/12/96-08/21/96	43	63.	64.349	68.	62.	5.994	2.448	62.	62.	67.	68.
70971	LIGHT, ATTENUATION COEFFICIENT (ALPHA/M)	06/12/96-08/21/96	2	0.317	0.317	0.383	0.25	0.009	0.094	**	**	**	**
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	06/12/96-08/21/96	9 ##	0.005	0.008	0.03	0.005	0.	0.008	0.005	0.005	0.008	0.03
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/12/96-08/21/96	43	6.3	14.328	58.	0.	260.8	16.149	5.6	5.8	9.9	45.38
82127	WIND SPEED KNOTS	06/12/96-08/21/96	43	1.	2.581	5.	1.	3.916	1.979	1.	1.	5.	5.

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

EPA Water Quality Criteria Analysis for Station: APIS0203

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	43	0	0.00	17	0	0.00							26	0	0.00
00406	PH, FIELD	Fresh Chronic	9.	43	0	0.00	17	0	0.00							26	0	0.00
		Other-Lo Lim.	6.5	43	0	0.00	17	0	0.00							26	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	9	0	0.00	3	0	0.00							6	0	0.00
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	43	3	0.07	17	0	0.00							26	3	0.12

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

Station Inventory for Station: APIS0204

NPS Station ID: APIS0204
LAT/LON: 46.966670/ -91.008337
Agency: 21WIDNR
Date Created: 08/08/78
Location: WEST OF SAND ISLAND
FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 177
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 999
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: WISC & MINN DRAINAGE
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
DATA FROM WISCONSIN DEPARTMENT OF NATURAL RESOURCES FISH SAMPLING PROGRAMS FOR MERCURY, PCBS, AND PESTICIDES
SAMPLE TAKEN FROM WEST OF SAND ISLAND

Parameter Inventory for Station: APIS0204

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/24/76-07/24/76	1	61.	61.	61.	61.	0.	0.	**	**	**	**
00024	SAMPLE LENGTH IN INCHES	07/24/76-07/24/76	1	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/24/76-07/24/76	1	0.12	0.12	0.12	0.12	0.	0.	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	07/24/76-07/24/76	1	1.	1.	1.	1.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0205

NPS Station ID: APIS0205 | LAT/LON: 47.040004/ -91.015004 | Agency: AIJCCCIW | Date Created: 09/30/77
Location: 4 MI NW OF SAND ISLAND | FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE | STORET Station ID(s): C76SU029
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 04020300 | Depth of Water: 3083 | Aquifer:
Major Basin: GREAT LAKES | Elevation: 0 | Water Body Id:
Minor Basin: L. SUPERIOR-CANADIAN 1976 STATION #29 | ECO Region:
RF1 Index: 04020300 | RF1 Mile Point: 0.000 | Distance from RF1: 13.80 | On/Off RF1:
RF3 Index: 04010301001007.02 | RF3 Mile Point: 10.66 | Distance from RF3: 1.27 | 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. USEPA CONTACTS: NELSON THOMAS OR WILLIAM RICHARDSON, 313-226-7811. DATA FOR THIS STATION IN 1976 WAS COLLECTED IN PART FOR THE IJC INTERNATIONAL SURVEILLANCE PROGRAM FOR THE GREAT LAKES. ADDITIONAL INFORMATION ON GREAT LAKES CANADIAN DATA IS ON DATA SET CN.EPANAT.CNLL.CANADA.NEWS AT THE STORET COMPUTER SITE.

Parameter Inventory for Station: APIS0205

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/16/76-06/16/76	5	16.	79.6	301.	0.	16317.3	127.739	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/76-06/16/76	5	7.	5.96	7.	3.8	2.208	1.486	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/16/76-06/16/76	4	0.6	2.4	7.9	0.5	13.453	3.668	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	06/16/76-06/16/76	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	06/16/76-06/16/76	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/16/76-06/16/76	4	98.	97.75	98.	97.	0.25	0.5	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/16/76-06/16/76	4	12.75	12.85	13.3	12.6	0.097	0.311	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/16/76-06/16/76	4	104.5	104.25	106.	102.	4.25	2.062	**	**	**	**
00400	PH (STANDARD UNITS)	06/16/76-06/16/76	4	7.735	7.713	7.87	7.51	0.024	0.156	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/16/76-06/16/76	4	7.732	7.691	7.87	7.51	0.025	0.158	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/16/76-06/16/76	4	0.019	0.02	0.031	0.013	0.	0.008	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/16/76-06/16/76	4	42.	41.75	42.	41.	0.25	0.5	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	06/16/76-06/16/76	4	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/16/76-06/16/76	4	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/16/76-06/16/76	4	0.005	0.005	0.006	0.005	0.	0.001	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	06/16/76-06/16/76	4	0.003	0.003	0.004	0.003	0.	0.001	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/16/76-06/16/76	4	0.001	0.001	0.001	0.	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	06/16/76-06/16/76	4	0.1	0.098	0.1	0.09	0.	0.005	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/16/76-06/16/76	4	13.05	13.075	13.2	13.	0.009	0.096	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/16/76-06/16/76	4	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/16/76-06/16/76	4	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/16/76-06/16/76	4	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/16/76-06/16/76	4	1.	1.	1.	1.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	06/16/76-06/16/76	4	2.65	2.65	2.7	2.6	0.003	0.058	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/16/76-06/16/76	4	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	06/16/76-06/16/76	4	1.	0.875	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: APIS0205

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01046	IRON, DISSOLVED (UG/L AS FE)	06/16/76-06/16/76	4	3.	3.25	5.	2.	2.25	1.5	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	06/16/76-06/16/76	4	1.	1.	1.	1.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	06/16/76-06/16/76	4	1.	1.	1.	1.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	06/16/76-06/16/76	4	4.5	4.5	7.	2.	5.667	2.38	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0205

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	4	0	0.00										4	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	4	0	0.00										4	0	0.00
00400	PH	Fresh Chronic	9.	4	0	0.00										4	0	0.00
		Other-Lo Lim.	6.5	4	0	0.00										4	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	4	0	0.00										4	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	4	0	0.00										4	0	0.00
		Drinking Water	250.	4	0	0.00										4	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	4	0	0.00										4	0	0.00
01040	COPPER, DISSOLVED	Fresh Acute	18.	4	0	0.00										4	0	0.00
		Drinking Water	1300.	4	0	0.00										4	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute	82.	4	0	0.00										4	0	0.00
		Drinking Water	15.	4	0	0.00										4	0	0.00
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	4	0	0.00										4	0	0.00
		Drinking Water	100.	4	0	0.00										4	0	0.00
01090	ZINC, DISSOLVED	Fresh Acute	120.	4	0	0.00										4	0	0.00
		Drinking Water	5000.	4	0	0.00										4	0	0.00

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

Station Inventory for Station: APIS0206

NPS Station ID: APIS0206 LAT/LON: 47.040004/ -91.015004 Agency: AIJCCCIW Date Created: 02/09/78
Location: 6 MI NORTH OF SAND I.,WISCONSIN FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): C73SU199
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04020300 Depth of Water: 3214 Aquifer:
Major Basin: GREAT LAKES Elevation: 0 Water Body Id:
Minor Basin: L. SUPERIOR CANADIAN 1973 STATION #199 ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 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. USEPA CONTACTS: NELSON THOMAS OR WILLIAM RICHARDSON, 313-226-7811. DATA FOR THIS STATION IN 1973 WAS COLLECTED IN PART FOR THE IJC INTERNATIONAL SURVEILLANCE PROGRAM FOR THE GREAT LAKES. ADDITIONAL INFORMATION ON GREAT LAKES CANADIAN DATA IS ON DATA SET CN.EPANAT.CNLL.CANADA.NEWS AT THE STORET COMPUTER SITE.

Parameter Inventory for Station: APIS0206

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/26/73-11/28/73	20	16.	45.9	196.	0.	3840.411	61.971	0.	0.75	81.	163.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/73-11/28/73	20	6.9	9.245	17.9	3.9	27.216	5.217	4.	4.425	14.5	17.62
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	06/26/73-09/16/73	11	45.	44.273	66.	25.	142.618	11.942	25.2	38.	48.	64.4
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/26/73-09/16/73	15	0.5	0.667	1.3	0.3	0.118	0.344	0.3	0.5	0.7	1.3
00078	TRANSPARENCY, SECCHI DISC (METERS)	10/24/73-10/24/73	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	10/24/73-10/24/73	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/26/73-09/16/73	15	12.9	12.14	13.3	10.2	1.591	1.261	10.38	10.5	13.1	13.24
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/26/73-09/16/73	15	105.	105.4	111.	102.	8.114	2.849	102.	103.	106.	110.4
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/06/73-09/16/73	10	43.	43.	43.	43.	0.	0.	43.	43.	43.	43.
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	06/26/73-09/16/73	15	0.01	0.01	0.02	0.004	0.	0.004	0.005	0.007	0.012	0.016
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/26/73-09/16/73	15	0.3	0.287	0.3	0.2	0.001	0.035	0.2	0.3	0.3	0.3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/26/73-09/16/73	9	0.005	0.006	0.012	0.003	0.	0.003	0.003	0.004	0.007	0.012
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	06/26/73-09/16/73	8	0.004	0.004	0.007	0.003	0.	0.001	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/26/73-09/16/73	15	0.001	0.001	0.002	0.001	0.	0.001	0.001	0.001	0.002	0.002
00940	CHLORIDE,TOTAL IN WATER MG/L	09/16/73-09/16/73	5	1.	1.	1.	1.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/26/73-09/16/73	15	2.5	2.427	2.6	2.1	0.024	0.153	2.1	2.4	2.5	2.6

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

EPA Water Quality Criteria Analysis for Station: APIS0206

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	15	0	0.00	10	0	0.00							5	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	15	0	0.00	10	0	0.00							5	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	15	0	0.00	10	0	0.00							5	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	5	0	0.00	5	0	0.00									
		Drinking Water	250.	5	0	0.00	5	0	0.00									

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

Station Inventory for Station: APIS0207

NPS Station ID: APIS0207
LAT/LON: 46.938892/ -91.045837
Agency: 21WIDNR
Date Created: 08/08/78
Location: LAKE SUPERIOR N.W.OF EAGLE IS
FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 112
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 999
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: WISC + MINN DRAINAGE
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
DATA FROM WISCONSIN DEPARTMENT OF NATURAL RESOURCES FISH SAMPLING PROGRAMS FOR MERCURY, PCBS, AND PESTICIDES
SAMPLE TAKEN FROM LAKE SUPERIOR NORTH WEST OF EAGLE ISLAND

Parameter Inventory for Station: APIS0207

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/28/76-07/29/76	2	291.	291.	291.	291.	0.	0.	**	**	**	**
00024	SAMPLE LENGTH IN INCHES	07/28/76-07/29/76	2	17.4	17.4	17.4	17.4	0.	0.	**	**	**	**
39105	PERCENT FAT HEXANE EXTRACTION	07/28/76-07/28/76	1	28.8	28.8	28.8	28.8	0.	0.	**	**	**	**
39515	PCBS (MG/KG) FISH TISSUE MG/KG	07/28/76-07/28/76	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/29/76-07/29/76	1	0.36	0.36	0.36	0.36	0.	0.	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	07/28/76-07/29/76	2	1.	1.	1.	1.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0208

NPS Station ID: APIS0208 LAT/LON: 46.998337/ -91.048338 Agency: AIJCCCIW Date Created: 02/09/78
Location: WEST OF SAND I.,WISCONSIN FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): C71SU064
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04020300 Depth of Water: 2689 Aquifer:
Major Basin: GREAT LAKES Elevation: 0 Water Body Id:
Minor Basin: L. SUPERIOR CANADIAN 1971 STATION #64 ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 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. USEPA CONTACTS: NELSON THOMAS OR WILLIAM RICHARDSON, 313-226-7811. DATA FOR THIS STATION IN 1971 WAS COLLECTED IN PART FOR THE IJC INTERNATIONAL SURVEILLANCE PROGRAM FOR THE GREAT LAKES. ADDITIONAL INFORMATION ON GREAT LAKES CANADIAN DATA IS ON DATA SET CN.EPANAT.CNLL.CANADA.NEWS AT THE STORET COMPUTER SITE.

Parameter Inventory for Station: APIS0208

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/01/71-10/13/71	22	32.	88.864	262.	0.	9885.647	99.427	0.	3.	179.5	249.9
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/01/71-10/13/71	22	4.15	6.623	11.3	3.2	12.306	3.508	3.2	3.7	10.925	11.27
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/01/71-10/13/71	19	1.1	1.416	4.8	0.4	1.537	1.24	0.4	0.6	1.7	4.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/01/71-10/13/71	19	98.	97.632	100.	95.	1.912	1.383	95.	97.	98.	100.
00300	OXYGEN, DISSOLVED MG/L	06/01/71-10/13/71	19	12.8	12.442	13.7	10.5	1.185	1.088	10.7	11.8	13.5	13.6
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	10/13/71-10/13/71	7	100.	99.714	101.	98.	1.238	1.113	**	**	**	**
00400	PH (STANDARD UNITS)	06/01/71-10/13/71	19	8.05	7.982	8.1	7.64	0.02	0.143	7.68	7.88	8.06	8.1
00400	CONVERTED PH (STANDARD UNITS)	06/01/71-10/13/71	19	8.05	7.956	8.1	7.64	0.021	0.145	7.68	7.88	8.06	8.1
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/01/71-10/13/71	19	0.009	0.011	0.023	0.008	0.	0.004	0.008	0.009	0.013	0.021
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/01/71-10/13/71	19	42.	41.632	43.	40.	0.468	0.684	41.	41.	42.	42.
00440	BICARBONATE ION (MG/L AS HCO3)	06/01/71-10/13/71	6	50.5	50.167	51.	49.	0.967	0.983	**	**	**	**
00602	NITROGEN, DISSOLVED (MG/L AS N)	10/13/71-10/13/71	7	0.3	0.304	0.34	0.26	0.001	0.033	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	06/01/71-06/01/71	6	0.1	0.103	0.16	0.045	0.002	0.048	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	06/01/71-10/13/71	19	0.008	0.008	0.018	0.001	0.	0.006	0.002	0.003	0.014	0.017
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	06/01/71-10/13/71	17	0.001	0.002	0.003	0.001	0.	0.001	0.001	0.001	0.002	0.003
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/01/71-10/13/71	19	0.3	0.268	0.3	0.2	0.002	0.048	0.2	0.2	0.3	0.3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/06/71-10/13/71	12	0.011	0.012	0.022	0.007	0.	0.004	0.007	0.008	0.015	0.021
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/06/71-10/13/71	12	0.005	0.005	0.008	0.003	0.	0.001	0.003	0.004	0.006	0.007
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/01/71-10/13/71	19	0.001	0.002	0.004	0.001	0.	0.001	0.001	0.001	0.002	0.003
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/01/71-10/13/71	9	2.	2.022	3.	1.3	0.254	0.504	1.3	1.65	2.35	3.
00685	CARBON, TOTAL INORGANIC (MG/L AS C)	06/01/71-10/13/71	9	11.	10.656	12.	7.4	1.785	1.336	7.4	10.35	11.4	12.
00690	CARBON, TOTAL (MG/L AS C)	06/01/71-10/13/71	9	12.9	12.611	14.	9.4	1.696	1.302	9.4	12.45	13.3	14.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/01/71-10/13/71	6	13.	13.267	14.9	12.6	0.671	0.819	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/01/71-10/13/71	6	2.65	2.667	2.8	2.6	0.007	0.082	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/01/71-10/13/71	6	1.25	1.267	1.4	1.2	0.007	0.082	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/01/71-10/13/71	6	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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

Parameter Inventory for Station: APIS0208

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00940	CHLORIDE,TOTAL IN WATER MG/L	06/01/71-10/13/71	6	1.	1.	1.	1.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	06/01/71-10/13/71	6	2.7	3.2	6.4	2.3	2.488	1.577	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/01/71-06/01/71	3	0.05	0.053	0.06	0.05	0.	0.006	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/01/71-10/13/71	19	2.3	2.253	2.4	2.1	0.01	0.102	2.1	2.2	2.3	2.4
01025	CADMIUM, DISSOLVED (UG/L AS CD)	06/01/71-10/13/71	5	0.5	0.56	0.9	0.2	0.068	0.261	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/01/71-10/13/71	2	0.6	0.6	1.	0.2	0.32	0.566	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	06/01/71-10/13/71	5	1.	1.58	3.	0.4	1.732	1.316	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	06/01/71-10/13/71	6	9.	10.833	22.	6.	32.567	5.707	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	06/01/71-10/13/71	6	5.	5.833	12.	3.	11.767	3.43	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	06/01/71-10/13/71	6	1.	1.283	2.	0.7	0.322	0.567	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/01/71-10/13/71	6	0.55	0.883	2.7	0.3	0.822	0.906	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/13/71-10/13/71	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	06/01/71-10/13/71	6	1.	1.283	2.	0.7	0.322	0.567	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/13/71-10/13/71	3	34.	35.	39.	32.	13.	3.606	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	06/01/71-10/13/71	6	15.	16.5	31.	9.	59.9	7.74	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	06/01/71-10/13/71	6	0.75	0.8	1.	0.6	0.028	0.167	**	**	**	**
31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	06/01/71-10/13/71	5	3.	7.4	20.	1.	61.3	7.829	**	**	**	**
31503	LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	06/01/71-10/13/71	5	0.477	0.651	1.301	0.	0.257	0.507	**	**	**	**
31503	GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =			4.478								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/13/71-10/13/71	1	1.	1.	1.	1.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/13/71-10/13/71	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.								
31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	06/01/71-10/13/71	7	1.	5.857	24.	1.	77.476	8.802	**	**	**	**
31749	LOG PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	06/01/71-10/13/71	7	0.	0.389	1.38	0.	0.337	0.58	**	**	**	**
31749	GM PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	GEOMETRIC MEAN =			2.449								
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	06/01/71-10/13/71	3	0.6	0.867	1.8	0.2	0.693	0.833	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	06/01/71-10/13/71	6	0.2	0.193	0.3	0.06	0.01	0.099	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0208

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	19	0	0.00	7	0	0.00							12	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	19	0	0.00	7	0	0.00							12	0	0.00
00400	PH	Fresh Chronic	9.	19	0	0.00	7	0	0.00							12	0	0.00
		Other-Lo Lim.	6.5	19	0	0.00	7	0	0.00							12	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	17	0	0.00	5	0	0.00							12	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	19	0	0.00	7	0	0.00							12	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	6	0	0.00	3	0	0.00							3	0	0.00
		Drinking Water	250.	6	0	0.00	3	0	0.00							3	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	6	0	0.00	3	0	0.00							3	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	3	0	0.00										3	0	0.00
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	5	0	0.00	2	0	0.00							3	0	0.00
		Drinking Water	5.	5	0	0.00	2	0	0.00							3	0	0.00
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00	1	0	0.00							1	0	0.00
01040	COPPER, DISSOLVED	Fresh Acute	18.	6	1	0.17	3	1	0.33							3	0	0.00
		Drinking Water	1300.	6	0	0.00	3	0	0.00							3	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute	82.	6	0	0.00	3	0	0.00							3	0	0.00
		Drinking Water	15.	6	0	0.00	3	0	0.00							3	0	0.00
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	6	0	0.00	3	0	0.00							3	0	0.00
		Drinking Water	100.	6	0	0.00	3	0	0.00							3	0	0.00
01090	ZINC, DISSOLVED	Fresh Acute	120.	6	0	0.00	3	0	0.00							3	0	0.00
		Drinking Water	5000.	6	0	0.00	3	0	0.00							3	0	0.00
31503	COLIFORM,TOT,MEMBRANE FILTR,DELAY. M-END	Other-Hi Lim.	1000.	5	0	0.00	4	0	0.00							1	0	0.00
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	6	0	0.00	3	0	0.00							3	0	0.00
		Drinking Water	2.	6	0	0.00	3	0	0.00							3	0	0.00

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

Station Inventory for Station: APIS0209

NPS Station ID: APIS0209 | LAT/LON: 46.998337/ -91.048338 | Agency: AIJCCCIW | Date Created: 02/09/78
Location: WEST OF SAN I.,WISCONSIN | FIPS State/County: 55996 WISCONSIN/
Station Type: /TYPA/AMBNT/LAKE | STORET Station ID(s): C68SU082
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 04020300 | Depth of Water: 2591 | Aquifer:
Major Basin: GREAT LAKES | Elevation: 0 | Water Body Id:
Minor Basin: ALSO SAMPLED IN 1969&1970 STATION #82 | ECO Region:
RF1 Index: 04020300 | RF1 Mile Point: 0.000 | Distance from RF1: 13.80 | On/Off RF1:
RF3 Index: 04010301001007.02 | RF3 Mile Point: 10.66 | Distance from RF3: 1.27 | 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. USEPA CONTACTS: NELSON THOMAS OR WILLIAM RICHARDSON, 313-226-7811. DATA FOR THIS STATION WAS COLLECTED IN PART FOR THE IJC INTERNATIONAL SURVEILLANCE PROGRAM FOR THE GREAT LAKES. ADDITIONAL INFORMATION ON GREAT LAKES CANADIAN DATA IS ON DATA SET CN.EPANAT.CNLL.CANADA.NEWS AT THE STORET COMPUTER SITE.

Parameter Inventory for Station: APIS0209

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/27/68-11/05/70	27	49.	81.63	252.	0.	7555.55	86.923	0.	3.	163.	236.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/68-11/05/70	26	5.8	7.727	14.5	4.2	14.617	3.823	4.34	4.675	12.3	14.36
00070	TURBIDITY, (JACKSON CANDLE UNITS)	08/27/68-11/05/70	22	0.65	2.309	35.	0.1	53.569	7.319	0.1	0.475	0.95	2.08
00078	TRANSPARENCY, SECCHI DISC (METERS)	08/27/68-11/05/70	4	5.75	5.875	8.	4.	3.063	1.75	**	**	**	**
00079	COLOR, WATER (FOREL-ULE SCALE)	08/27/68-11/05/70	4	8.	8.25	10.	7.	1.583	1.258	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/68-11/05/70	22	99.	100.091	111.	95.	21.706	4.659	96.	97.	100.	109.
00300	OXYGEN, DISSOLVED MG/L	08/27/68-11/05/70	22	12.1	11.891	12.8	10.2	0.583	0.763	10.35	11.425	12.325	12.67
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/27/68-08/27/68	3	0.3	0.267	0.3	0.2	0.003	0.058	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/27/68-08/27/68	3	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/27/68-08/27/68	3	2.3	2.3	2.4	2.2	0.01	0.1	**	**	**	**
31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	08/27/68-08/27/68	2	1.	1.	1.	1.	0.	0.	**	**	**	**
31503	LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	08/27/68-08/27/68	2	0.	0.	0.	0.	0.	0.	**	**	**	**
31503	GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =			1.								
31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	08/27/68-08/27/68	4	11.	11.5	14.	10.	3.667	1.915	**	**	**	**
31749	LOG PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	08/27/68-08/27/68	4	1.04	1.056	1.146	1.	0.005	0.071	**	**	**	**
31749	GM PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	GEOMETRIC MEAN =			11.385								
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	08/27/68-11/05/70	3	1.4	1.567	2.8	0.5	1.343	1.159	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0209

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	22	0	0.00	22	0	0.00									
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	22	0	0.00	22	0	0.00									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00	3	0	0.00									
31503	COLIFORM,TOT,MEMBRANE FILTR,DELAY. M-END	Other-Hi Lim.	1000.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: APIS0210

NPS Station ID: APIS0210
LAT/LON: 46.891670/ -91.070837
Agency: 21WIDNR
Date Created: 08/03/78
Location: LAKE SUPERIOR EAST OF SQUAW BAY
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 111
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 999
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 0
Water Body Id:
Minor Basin: WISC + MINN DRAINAGE
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 16.60
On/Off RF1:
RF3 Index: 04010301081300.00
RF3 Mile Point: 2.87
Distance from RF3: 0.27
On/Off RF3:
Description:
DATA FROM WISCONSIN DEPARTMENT OF NATURAL RESOURCES FISH SAMPLING PROGRAMS FOR MERCURY, PCBS, AND PESTICIDES
SAMPLE TAKEN FROM LAKE SUPERIOR EAST OF SQUAW BAY

Parameter Inventory for Station: APIS0210

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/23/76-07/24/76	13	331.	370.923	801.	61.	41686.41	204.173	153.	291.5	333.5	801.
00024	SAMPLE LENGTH IN INCHES	07/23/76-07/24/76	13	15.7	15.592	20.5	8.2	18.522	4.304	8.2	12.7	19.5	20.5
39105	PERCENT FAT HEXANE EXTRACTION	07/23/76-07/23/76	8	2.9	4.725	13.	1.4	14.574	3.818	**	**	**	**
39515	PCBS (MG/KG) FISH TISSUE MG/KG	07/23/76-07/23/76	8	0.59	0.731	1.3	0.36	0.117	0.342	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/24/76-07/24/76	5	0.16	0.21	0.38	0.14	0.01	0.1	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	07/23/76-07/24/76	13	1.	2.462	8.	1.	7.936	2.817	1.	1.	3.5	8.

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

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

Station Inventory for Station: APIS0211

NPS Station ID: APIS0211
LAT/LON: 46.916670/ -91.083338
Agency: 21WITIS
Date Created: 10/22/88
Location: LAKE SUPERIOR 13 GRID 1307
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE/TISSUE
STORET Station ID(s): 045024 /8280MA045024
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04020300
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 55
Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN
ECO Region:
RF1 Index: 04020300
RF1 Mile Point: 0.000
Distance from RF1: 13.80
On/Off RF1:
RF3 Index: 04010301001007.02
RF3 Mile Point: 10.66
Distance from RF3: 1.27
On/Off RF3:
Description:
STATION FOR LEE LIEBENSTEIN OF BUR WATER RES MGT (608)266-0164 FISH TOXICS MONITORING
LEE LIEBENSTEIN (608) 266-0164 BUREAU WATER RES MAN

Parameter Inventory for Station: APIS0211

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/23/85-03/31/87	24	558.5	2423.375	5617.	61.	6400474.853	2529.916	181.5	552.25	5611.75	5615.5
00023	SAMPLE WEIGHT IN POUNDS	07/23/85-03/31/87	24	4.42	4.313	7.94	0.24	3.882	1.97	0.835	3.443	6.03	6.5
00024	SAMPLE LENGTH IN INCHES	07/23/85-03/31/87	24	23.2	21.934	28.7	9.36	20.686	4.548	13.525	20.7	24.6	25.9
34670	PCB - 1260 WET WGTTISMG/KG	03/31/87-03/31/87	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
34691	TOXAPHENE WET WGTTISMG/KG	07/24/85-03/31/87	5	3.	3.4	7.	0.5	9.175	3.029	**	**	**	**
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	07/23/85-03/31/87	14 ##	0.025	0.045	0.12	0.025	0.001	0.036	0.025	0.025	0.063	0.115
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	07/23/85-03/31/87	14 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	07/23/85-03/31/87	10 ##	0.025	0.076	0.21	0.025	0.007	0.084	0.025	0.025	0.18	0.21
39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	07/23/85-03/31/87	10 ##	0.025	0.116	0.3	0.025	0.015	0.122	0.025	0.025	0.253	0.299
39302	P P DDT IN TISSUE WET WGT (UG/G)	07/23/85-03/31/87	14	0.09	0.101	0.28	0.025	0.006	0.079	0.025	0.029	0.14	0.255
39307	O P DDT IN TISSUE WET WGT (UG/G)	07/23/85-03/31/87	14 ##	0.025	0.03	0.05	0.025	0.	0.011	0.025	0.025	0.031	0.05
39312	P P DDD IN TISSUE WET WGT (UG/G)	07/23/85-03/31/87	14 ##	0.025	0.028	0.07	0.025	0.	0.012	0.025	0.025	0.025	0.048
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	07/23/85-03/31/87	14	0.28	0.364	1.	0.025	0.089	0.299	0.048	0.115	0.575	0.895
39325	O,P DDD IN TISSUE WET WGT (UG/G)	07/23/85-03/31/87	14 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
39329	O,P DDE IN TISSUE, WET WGT(UG/G)	07/23/85-03/31/87	14 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	07/23/85-03/31/87	14	0.075	0.066	0.11	0.01	0.001	0.035	0.015	0.038	0.1	0.11
39407	TOXAPHENE IN FISH OR ANIMAL(UG/KG WET WEIGHT)	03/31/87-03/31/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39515	PCBS (MG/KG) FISH TISSUE MG/KG	07/23/85-03/31/87	10	0.835	1.587	4.1	0.1	2.283	1.511	0.113	0.305	2.925	4.05
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/23/85-09/10/85	14	0.495	0.428	0.86	0.015	0.078	0.28	0.033	0.12	0.598	0.84
78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	03/31/87-03/31/87	4	0.105	0.103	0.13	0.07	0.001	0.032	**	**	**	**
78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	03/31/87-03/31/87	4	0.085	0.08	0.09	0.06	0.	0.014	**	**	**	**
78926	FAT, PERCENT, IN TISSUE, WET WEIGHT %	07/23/85-03/31/87	14	21.	18.621	28.	2.4	81.979	9.054	3.9	10.225	27.	28.
78929	PCB 1254/1260, TISSUE, WET WEIGHT MG/KG	03/31/87-03/31/87	3	1.3	1.233	1.3	1.1	0.013	0.115	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	03/31/87-03/31/87	7	1.	1.143	2.	1.	0.143	0.378	**	**	**	**

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

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

Station Inventory for Station: APIS0212

NPS Station ID: APIS0212
LAT/LON: 46.795837/ -91.094449
Agency: 12ELS1
Date Created: 04/16/88
Location: PERCH LAKE
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 2B1-020
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010301
Depth of Water: 13
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 1.80
On/Off RF1:
RF3 Index: 04010301015600.00
RF3 Mile Point: 0.00
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: APIS0212

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/84-11/01/84	1	4.3	4.3	4.3	4.3	0.	0.	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	11/01/84-11/01/84	1	0.55	0.55	0.55	0.55	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	11/01/84-11/01/84	1	345.	345.	345.	345.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/84-11/01/84	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00154	SULFATE (AS S) WHOLE WATER, MG/L	11/01/84-11/01/84	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/01/84-11/01/84	1	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/01/84-11/01/84	1	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/01/84-11/01/84	1	31.623	31.623	31.623	31.623	0.	0.	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	11/01/84-11/01/84	1	-36.7	-36.7	-36.7	-36.7	0.	0.	**	**	**	**
00662	PHOSPHORUS (P), WATER, TOTAL RECOVERABLE UG/L	11/01/84-11/01/84	1	33.	33.	33.	33.	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	11/01/84-11/01/84	1	28.8	28.8	28.8	28.8	0.	0.	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	11/01/84-11/01/84	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00910	CALCIUM (MG/L AS CACO3)	11/01/84-11/01/84	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/01/84-11/01/84	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/01/84-11/01/84	1	0.68	0.68	0.68	0.68	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/01/84-11/01/84	1	0.59	0.59	0.59	0.59	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/01/84-11/01/84	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/84-11/01/84	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/01/84-11/01/84	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/01/84-11/01/84	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	11/01/84-11/01/84	1	443.	443.	443.	443.	0.	0.	**	**	**	**
70151	SURFACE AREA OF LAKE OR RESERVOIR SQ KM	11/01/84-11/01/84	1	0.076	0.076	0.076	0.076	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/01/84-11/01/84	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
71885	IRON (UG/L AS FE)	11/01/84-11/01/84	1	1030.	1030.	1030.	1030.	0.	0.	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	11/01/84-11/01/84	1	1107.01	1107.01	1107.01	1107.01	0.	0.	**	**	**	**
82047	DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	11/01/84-11/01/84	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/01/84-11/01/84	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: APIS0212

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00154	SULFATE (AS S) WHOLE WATER	Drinking Water	250.	1	0	0.00	1	0	0.00									

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

EPA Water Quality Criteria Analysis for Station: APIS0212

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	1	1	1.00	1	1	1.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: APIS0213

NPS Station ID: APIS0213 LAT/LON: 46.856948/ -91.099448 Agency: 112WRD Date Created: 03/10/90
Location: SISKIWIT RIVER AT HIGHWAY 13 AT CORNUCOPIA, WI FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 04026161
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 2.80 On/Off RF1:
RF3 Index: 04010301000502.68 RF3 Mile Point: 2.68 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: APIS0213

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/89-08/22/89	1	15.5	15.5	15.5	15.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/89-08/22/89	1	164.	164.	164.	164.	0.	0.	**	**	**	**
39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	08/22/89-08/22/89	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/22/89-08/22/89	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	08/22/89-08/22/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	08/22/89-08/22/89	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0214

NPS Station ID: APIS0214 LAT/LON: 46.861115/ -91.100560 Agency: 1115GLSB Date Created: 05/01/82
Location: CORNUCOPIA HRBR, MIDCHNNEL, 125 FT W OF EAST SHR FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): CCH72-01 /CCH72-01S
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04020300 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: WISC & MINN DRAINAGE ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 04010301066300.00 RF3 Mile Point: 0.01 Distance from RF3: 0.03 On/Off RF3:
Description:
DATA SUPPLIED BY US EPA GREAT LAKES NATIONAL PROGRAM OFFICE. DATA FROM THE CORNUCOPIA HARBOR SEDIMENT STUDY.
SAMPLES ANALYZED FOR CONVENTIONAL AND TOXIC PARAMETERS. FOR INFORMATION, CONTACT: TONY KIZLAUSKAS EPA GLNPO (312) 353-3576.
SAMPLE TAKEN FROM CORNUCOPIA HARBOR, MID-CHANNEL AND 125 FEET WEST OF EASTERN SHORELINE OF THE NORTHEAST HARBOR CHANNEL
AT CORNUCOPIA, WISCONSIN.

Parameter Inventory for Station: APIS0214

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	09/14/72-09/14/72	1	108100.	108100.	108100.	108100.	0.	0.	**	**	**	**
00553	OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,MG/KG	09/14/72-09/14/72	1	1700.	1700.	1700.	1700.	0.	0.	**	**	**	**
00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	09/14/72-09/14/72	1	4900.	4900.	4900.	4900.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	09/14/72-09/14/72	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/14/72-09/14/72	1	38.	38.	38.	38.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/14/72-09/14/72	1	54.	54.	54.	54.	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/14/72-09/14/72	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	09/14/72-09/14/72	1	8.7	8.7	8.7	8.7	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

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

Station Inventory for Station: APIS0215

NPS Station ID: APIS0215 LAT/LON: 46.861948/ -91.100837 Agency: 1115GLSB Date Created: 05/01/82
Location: CORNUCOPIA HRBR 75 FT N OF E END OF SW STEEL PLG FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): CCH72-04 /CCH72-04S
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04020300 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: WISC & MINN DRAINAGE ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 04010301000409.49 RF3 Mile Point: 9.60 Distance from RF3: 0.03 On/Off RF3:
Description:
DATA SUPPLIED BY US EPA GREAT LAKES NATIONAL PROGRAM OFFICE. DATA FROM THE CORNUCOPIA HARBOR SEDIMENT STUDY.
SAMPLES ANALYZED FOR CONVENTIONAL AND TOXIC PARAMETERS. FOR INFORMATION, CONTACT: TONY KIZLAUSKAS EPA GLNPO (312) 353-3576.
SAMPLE TAKEN FROM CORNUCOPIA HARBOR, MID-CHANNEL AND 75 FEET NORTH OF THE EAST END OF THE SOUTHWEST STEEL PILING AT CORNUCOPIA, WISCONSIN.

Parameter Inventory for Station: APIS0215

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	09/14/72-09/14/72	1	57400.	57400.	57400.	57400.	0.	0.	**	**	**	**
00553	OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,MG/KG	09/14/72-09/14/72	1	1000.	1000.	1000.	1000.	0.	0.	**	**	**	**
00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	09/14/72-09/14/72	1	2200.	2200.	2200.	2200.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	09/14/72-09/14/72	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/14/72-09/14/72	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/14/72-09/14/72	1	40.	40.	40.	40.	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/14/72-09/14/72	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	09/14/72-09/14/72	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0216

NPS Station ID: APIS0216 LAT/LON: 46.860559/ -91.101116 Agency: 1115GLSB Date Created: 05/01/82
Location: SW CORNUCOPIA HRBR, ACRSS FR OLD LARGE BLDG FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): CCH72-02 /CCH72-02S
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: WISC & MINN DRAINAGE ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 04010301000409.49 RF3 Mile Point: 9.60 Distance from RF3: 0.06 On/Off RF3:
Description:
DATA SUPPLIED BY US EPA GREAT LAKES NATIONAL PROGRAM OFFICE. DATA FROM THE CORNUCOPIA HARBOR SEDIMENT STUDY.
SAMPLES ANALYZED FOR CONVENTIONAL AND TOXIC PARAMETERS. FOR INFORMATION, CONTACT: TONY KIZLAUSKAS EPA GLNPO (312) 353-3576.
SAMPLE TAKEN FROM CORNUCOPIA HARBOR, MID-CHANNEL ACROSS FROM OLD LARGE BUILDING IN THE SOUTHWESTERN HARBOR CHANNEL AT CORNUCOPIA, WISCONSIN.

Parameter Inventory for Station: APIS0216

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	09/14/72-09/14/72	1	69700.	69700.	69700.	69700.	0.	0.	**	**	**	**
00553	OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,MG/KG	09/14/72-09/14/72	1	1300.	1300.	1300.	1300.	0.	0.	**	**	**	**
00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	09/14/72-09/14/72	1	3600.	3600.	3600.	3600.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	09/14/72-09/14/72	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/14/72-09/14/72	1	42.	42.	42.	42.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/14/72-09/14/72	1	45.	45.	45.	45.	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/14/72-09/14/72	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	09/14/72-09/14/72	1	5.7	5.7	5.7	5.7	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

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

Station Inventory for Station: APIS0217

NPS Station ID: APIS0217 LAT/LON: 46.860282/ -91.101392 Agency: 1115GLSB Date Created: 05/01/82
Location: CORNUCOPIA HRBR, MIDCH ACROSS FROM MUNICIPAL DCK FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): CCH72-03 /CCH72-03S
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: WISC & MINN DRAINAGE ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 04010301000409.49 RF3 Mile Point: 9.60 Distance from RF3: 0.03 On/Off RF3:
Description:
DATA SUPPLIED BY US EPA GREAT LAKES NATIONAL PROGRAM OFFICE. DATA FROM THE CORNUCOPIA HARBOR SEDIMENT STUDY.
SAMPLES ANALYZED FOR CONVENTIONAL AND TOXIC PARAMETERS. FOR INFORMATION, CONTACT: TONY KIZLAUSKAS EPA GLNPO (312) 353-3576.
SAMPLE TAKEN FROM CORNUCOPIA HARBOR, MID-CHANNEL ACROSS FROM THE MUNICIPAL DOCK, 150 FEET TO THE SOUTH END OF CHANNEL AT CORNUCOPIA, WISCONSIN.

Parameter Inventory for Station: APIS0217

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	09/14/72-09/14/72	1	113200.	113200.	113200.	113200.	0.	0.	**	**	**	**
00553	OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,MG/KG	09/14/72-09/14/72	1	1800.	1800.	1800.	1800.	0.	0.	**	**	**	**
00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	09/14/72-09/14/72	1	5100.	5100.	5100.	5100.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	09/14/72-09/14/72	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/14/72-09/14/72	1	42.	42.	42.	42.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/14/72-09/14/72	1	65.	65.	65.	65.	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/14/72-09/14/72	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	09/14/72-09/14/72	1	9.	9.	9.	9.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0218

NPS Station ID: APIS0218 LAT/LON: 46.863893/ -91.104171 Agency: 1115GLSB Date Created: 05/01/82
Location: CORNUCOPIA HRBR, 50 FT S OF END OF NORTHERN PIER FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): CCH72-05 /CCH72-05S
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04020300 Depth of Water: 0 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 0 Water Body Id:
Minor Basin: WISC & MINN DRAINAGE ECO Region:
RF1 Index: 04020300 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 04010301000409.49 RF3 Mile Point: 9.60 Distance from RF3: 0.13 On/Off RF3:
Description:
DATA SUPPLIED BY US EPA GREAT LAKES NATIONAL PROGRAM OFFICE. DATA FROM THE CORNUCOPIA HARBOR SEDIMENT STUDY.
SAMPLES ANALYZED FOR CONVENTIONAL AND TOXIC PARAMETERS. FOR INFORMATION, CONTACT: TONY KIZLAUSKAS EPA GLNPO (312) 353-3576.
SAMPLE TAKEN FROM CORNUCOPIA HARBOR, 50 FEET SOUTH OF THE END OF NORTH- ERN PIER IN SISKIWIT BAY AT CORNUCOPIA, WISCONSIN.

Parameter Inventory for Station: APIS0218

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00339	COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	09/14/72-09/14/72	1	49200.	49200.	49200.	49200.	0.	0.	**	**	**	**
00553	OIL & GREASE,SED,DRY WT,HXANE EXTR-GRAV METH,MG/KG	09/14/72-09/14/72	1	500.	500.	500.	500.	0.	0.	**	**	**	**
00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	09/14/72-09/14/72	1	1500.	1500.	1500.	1500.	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	09/14/72-09/14/72	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/14/72-09/14/72	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/14/72-09/14/72	1	24.	24.	24.	24.	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/14/72-09/14/72	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
85207	SOLIDS, VOLATILE, IN SEDIMENT BY PERCENT	09/14/72-09/14/72	1	4.1	4.1	4.1	4.1	0.	0.	**	**	**	**

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

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

Station Inventory for Station: APIS0219

NPS Station ID: APIS0219
LAT/LON: 46.801448/ -91.107949
Agency: 21WITIS
Date Created: 09/24/88
Location: LITTLE SISKIWIT LAKE T50R6W S22
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE/TISSUE
STORET Station ID(s): 045017 /8280MA045017/5006W225017
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 55
Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 9.60
On/Off RF1:
RF3 Index: 04010301000502.68
RF3 Mile Point: 4.22
Distance from RF3: 0.61
On/Off RF3:
Description:
STATION FOR LEE LIEBENSTEIN OF BUR WATER RES MGT (608)266-0164 FISH TOXICS MONITORING
LEE LIEBENSTEIN (608) 266-0164 BUREAU WATER RES MAN

Parameter Inventory for Station: APIS0219

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/01/85-08/01/85	4	341.5	341.5	632.	51.	112133.667	334.864	**	**	**	**
00023	SAMPLE WEIGHT IN POUNDS	08/01/85-08/01/85	4	0.125	0.15	0.31	0.04	0.015	0.122	**	**	**	**
00024	SAMPLE LENGTH IN INCHES	08/01/85-08/01/85	4	6.14	6.24	8.15	4.53	2.613	1.617	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	08/01/85-08/01/85	4	0.285	0.305	0.4	0.25	0.004	0.067	**	**	**	**

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

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

Station Inventory for Station: APIS0220

NPS Station ID: APIS0220 LAT/LON: 46.801670/ -91.108503 Agency: 21WIS Date Created: 09/02/95
Location: LITTLE SISKIWIT LAKE DEEP SPOT FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 043100 /8280AG043100/5006W223100
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 04010301 Depth of Water: 16 Aquifer:
Major Basin: LAKE SUPERIOR Elevation: 55 Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN ECO Region:
RF1 Index: 04010301 RF1 Mile Point: 0.000 Distance from RF1: 13.80 On/Off RF1:
RF3 Index: 04010301001007.02 RF3 Mile Point: 10.66 Distance from RF3: 1.27 On/Off RF3:
Description:
STATION FOR SCOTT PEARSON OF NORTHWEST DISTRICT (715)635-2101

Parameter Inventory for Station: APIS0220

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
49701 TRANSPARENCY, SECCHI DISK, WATER FT	08/03/91-08/15/96	25	2.75	2.76	4.5	1.	0.456	0.675	2.15	2.25	3.	3.5

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

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

Station Inventory for Station: APIS0221

NPS Station ID: APIS0221
LAT/LON: 46.795004/ -91.127670
Agency: 21WIS
Date Created: 08/10/91
Location: SISKIWIT LAKE
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 043089 /8280AG043089/5006W213089
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010301
Depth of Water: 13
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 55
Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 16.30
On/Off RF1:
RF3 Index: 04010301028400.00
RF3 Mile Point: 4.32
Distance from RF3: 0.07
On/Off RF3:
Description:
STATION FOR DAN RYAN OF NORTHWEST DIST (715)635-2101 DEEPEST POINT

Parameter Inventory for Station: APIS0221

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: APIS0222

NPS Station ID: APIS0222
LAT/LON: 46.794170/ -91.131671
Agency: 21WITIS
Date Created: 08/01/87
Location: SISKIWIT LAKE
FIPS State/County: 55007 WISCONSIN/BAYFIELD
Station Type: /TYPA/AMBNT/LAKE/TISSUE
STORET Station ID(s): 045006 /8280MA045006/5006W025006 /2882300
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 04010301
Depth of Water: 0
Aquifer:
Major Basin: LAKE SUPERIOR
Elevation: 55
Water Body Id:
Minor Basin: LAKE SUPERIOR WESTERN BASIN
ECO Region:
RF1 Index: 04010301
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 04010301010500.00
RF3 Mile Point: 0.13
Distance from RF3: 0.01
On/Off RF3:
Description:
STATION FOR LEE LIEBENSTEIN OF BUR WATER RES MGT (608)266-0164 FISH TOXICS MONITORING

Parameter Inventory for Station: APIS0222

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/17/83-04/23/87	19	552.	488.842	611.	51.	26210.14	161.895	52.	551.	554.	556.
00023	SAMPLE WEIGHT IN POUNDS	06/17/83-04/23/87	19	1.54	1.704	6.39	0.37	2.018	1.42	0.44	0.77	2.01	4.08
00024	SAMPLE LENGTH IN INCHES	06/17/83-04/23/87	19	17.	16.447	26.8	9.4	20.3	4.506	9.5	13.7	18.5	25.5
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	06/17/83-05/06/85	11	0.46	0.548	1.4	0.14	0.125	0.353	0.146	0.39	0.78	1.284
71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	04/23/87-04/23/87	8	0.5	0.6	1.3	0.3	0.114	0.338	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	04/23/87-04/23/87	8	1.	1.	1.	1.	0.	0.	**	**	**	**

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

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

EPA Water Quality Criteria Analysis for Entire APIS Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	203	0	0.00	120	0	0.00							83	0	0.00
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	12	0	0.00	6	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00
00154	SULFATE (AS S) WHOLE WATER	Drinking Water	250.	1	0	0.00	1	0	0.00									
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	378	27	0.07	164	18	0.11							214	9	0.04
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	337	6	0.02	219	6	0.03							118	0	0.00
00400	PH	Fresh Chronic	9.	306	0	0.00	185	0	0.00							121	0	0.00
		Other-Lo Lim.	6.5	306	27	0.09	185	13	0.07							121	14	0.12
00403	PH, LAB	Fresh Chronic	9.	20	0	0.00	10	0	0.00				1	0	0.00	9	0	0.00
		Other-Lo Lim.	6.5	20	3	0.15	10	3	0.30				1	0	0.00	9	0	0.00
00406	PH, FIELD	Fresh Chronic	9.	322	0	0.00	143	0	0.00							179	0	0.00
		Other-Lo Lim.	6.5	322	82	0.25	143	44	0.31							179	38	0.21
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	1	1	1.00	1	1	1.00									
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	42	0	0.00	14	0	0.00				1	0	0.00	27	0	0.00
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	3	0	0.00	1	0	0.00				1	0	0.00	1	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	4	0	0.00	4	0	0.00									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	354	0	0.00	156	0	0.00				1	0	0.00	197	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	102	0	0.00	56	0	0.00				1	0	0.00	45	0	0.00
		Drinking Water	250.	102	0	0.00	56	0	0.00				1	0	0.00	45	0	0.00
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	69	0	0.00	53	0	0.00							16	0	0.00
		Drinking Water	250.	69	0	0.00	53	0	0.00							16	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	23	0	0.00	13	0	0.00				1	0	0.00	9	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	175	0	0.00	92	0	0.00							83	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	26	0	0.00	10	0	0.00				1	0	0.00	15	0	0.00
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00	1	0	0.00							1	0	0.00
		Drinking Water	50.	2	0	0.00	1	0	0.00							1	0	0.00
01001	ARSENIC, SUSPENDED	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00	1	0	0.00							1	0	0.00
		Drinking Water	50.	2	0	0.00	1	0	0.00							1	0	0.00
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01006	BARIUM, SUSPENDED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	13	0	0.00	4	0	0.00							9	0	0.00
		Drinking Water	5.	13	0	0.00	4	0	0.00							9	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	5	0	0.00	2	0	0.00							3	0	0.00
		Drinking Water	5.	5	0	0.00	2	0	0.00							3	0	0.00
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	9	0	0.00	5	0	0.00							4	0	0.00
01031	CHROMIUM, SUSPENDED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	5	0	0.00	2	0	0.00							3	0	0.00
01040	COPPER, DISSOLVED	Fresh Acute	18.	27	4	0.15	7	2	0.29							20	2	0.10
		Drinking Water	1300.	27	0	0.00	7	0	0.00							20	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.	5	0	0.00	2	0	0.00							3	0	0.00
		Drinking Water	1300.	5	0	0.00	2	0	0.00							3	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute	82.	27	0	0.00	7	0	0.00							20	0	0.00
		Drinking Water	15.	27	0	0.00	7	0	0.00							20	0	0.00
01050	LEAD, SUSPENDED	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	5	0	0.00	2	0	0.00							3	0	0.00
		Drinking Water	15.	5	0	0.00	2	0	0.00							3	0	0.00
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	23	0	0.00	5	0	0.00							18	0	0.00
		Drinking Water	100.	23	0	0.00	5	0	0.00							18	0	0.00
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00										1	0	0.00
		Drinking Water	100.	1	0	0.00										1	0	0.00
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01076	SILVER, SUSPENDED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									

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

EPA Water Quality Criteria Analysis for Entire APIS Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/15-11/30 Obs	7/15-11/30 Exceed	7/15-11/30 Prop.	12/01-2/29 Obs	12/01-2/29 Exceed	12/01-2/29 Prop.	3/01-4/14 Obs	3/01-4/14 Exceed	3/01-4/14 Prop.	4/15-7/14 Obs	4/15-7/14 Exceed	4/15-7/14 Prop.
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	27	0	0.00	7	0	0.00							20	0	0.00
		Drinking Water	5000.	27	0	0.00	7	0	0.00							20	0	0.00
01091	ZINC, SUSPENDED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	5	0	0.00	2	0	0.00							3	0	0.00
		Drinking Water	5000.	5	0	0.00	2	0	0.00							3	0	0.00
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	2	0	0.00	1	0	0.00							1	0	0.00
		Drinking Water	50.	2	0	0.00	1	0	0.00							1	0	0.00
01146	SELENIUM, SUSPENDED	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	1	0	0.00							1	0	0.00
		Drinking Water	50.	2	0	0.00	1	0	0.00							1	0	0.00
31503	COLIFORM,TOT,MEMBRANE FILTR,DELAY. M-END	Other-Hi Lim.	1000.	44	0	0.00	37	0	0.00							7	0	0.00
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	383	3	0.01	196	1	0.01							187	2	0.01
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	25	0	0.00	25	0	0.00									
34536	1,2-DICHLOROBENZENE, TOTAL	Drinking Water	600.	2	0	0.00										2	0	0.00
34551	1,2,4-TRICHLOROBENZENE, TOTAL	Drinking Water	70.	2	0	0.00										2	0	0.00
34571	1,4-DICHLOROBENZENE, TOTAL	Drinking Water	75.	2	0	0.00										2	0	0.00
39300	P,P' DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	10	0	0.00	6	0	0.00							4	0	0.00
39310	P,P' DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	10	0	0.00	6	0	0.00							4	0	0.00
39320	P,P' DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	10	0	0.00	6	0	0.00							4	0	0.00
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	25	0	0.00	21	0	0.00							4	0	0.00
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	15	0	0.00	15	0	0.00									
		Drinking Water	0.2	15	0	0.00	15	0	0.00									
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	15	0	0.00	15	0	0.00									
		Drinking Water	2.	15	0	0.00	15	0	0.00									
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	15	0	0.00	15	0	0.00									
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	15	0	0.00	15	0	0.00									
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	15	0	0.00	15	0	0.00									
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	27	0	0.00	21	0	0.00							6	0	0.00
39388	ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute	0.22	15	0	0.00	15	0	0.00									
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	25	0	0.00	21	0	0.00							4	0	0.00
		Drinking Water	2.	25	0	0.00	21	0	0.00							4	0	0.00
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	15	0	0.00	15	0	0.00									
		Drinking Water	3.	15	0	0.00	15	0	0.00									
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	25	0	0.00	21	0	0.00							4	0	0.00
		Drinking Water	0.4	25	0	0.00	21	0	0.00							4	0	0.00
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	27	0	0.00	21	0	0.00							6	0	0.00
		Drinking Water	0.2	27	0	0.00	21	0	0.00							6	0	0.00
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	25	0	0.00	21	0	0.00							4	0	0.00
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	Fresh Acute	6.	2	0	0.00										2	0	0.00
		Drinking Water	1.	2	0	0.00										2	0	0.00
39782	LINDANE IN WHOLE WATER SAMPLE	Fresh Acute	2.	12	0	0.00	6	0	0.00							6	0	0.00
		Drinking Water	0.2	12	0	0.00	6	0	0.00							6	0	0.00
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	3	0	0.00	1	0	0.00				1	0	0.00	1	0	0.00
71856	NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	2	0	0.00							1	0	0.00	1	0	0.00
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	16	0	0.00	7	0	0.00							9	0	0.00
		Drinking Water	2.	16	0	0.00	7	0	0.00							9	0	0.00
71895	MERCURY, SUSPENDED	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	41	0	0.00	38	0	0.00							3	0	0.00
		Drinking Water	2.	41	0	0.00	38	0	0.00							3	0	0.00
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	259	3	0.01	112	0	0.00							147	3	0.02
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									
82295	CHLORIDE DISSOLVED AS CL IN WATER	Fresh Acute	860000.	85	0	0.00	35	0	0.00							50	0	0.00
		Drinking Water	250000.	85	0	0.00	35	0	0.00							50	0	0.00

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

NPS Servicewide Inventory and Monitoring Program Level I

Water Quality Parameter Inventory Data Evaluation and Analysis:

Missing Level I Groups

There are STORET Data for Every Level I I&M Parameter Group Within the APIS 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 APIS Study Area Exist for These Groups:

Alkalinity		Total Obs.	01/01/85 to 08/21/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYSIS (UEQ/L)	1	0	1	0	1
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	214	48	35	131	42
00440	BICARBONATE ION (MG/L AS HCO3)	13	0	0	13	3
		228	48	36	144	46 (43)[!]

pH		Total Obs.	01/01/85 to 08/21/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00400	PH (STANDARD UNITS)	306	82	189	35	103
00403	PH, LAB (STANDARD UNITS)	20	0	20	0	13
00406	PH, FIELD (STANDARD UNITS)	322	322	0	0	14
		648	404	209	35	130(119)[!]

Conductivity		Total Obs.	01/01/85 to 08/21/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	325	325	0	0	14
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	334	78	189	67	105
		659	403	189	67	119(119)[!]

Dissolved Oxygen		Total Obs.	01/01/85 to 08/21/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	378	309	69	0	23
00300	OXYGEN, DISSOLVED (MG/L)	337	68	77	192	82
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	297	80	86	131	43
		1012	457	232	323	148(105)[!]

Water Temperature		Total Obs.	01/01/85 to 08/21/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	875	411	226	238	132
		875	411	226	238	132(132)[!]

Flow		Total Obs.	01/01/85 to 08/21/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00061	FLOW, STREAM, INSTANTANEOUS CFS	121	0	121	0	33
00065	STAGE, STREAM (FEET)	1	0	1	0	1
00072	STAGE, STREAM (METERS)	17	17	0	0	1
		139	17	122	0	35 (34)[!]

[!]Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

Clarity/Turbidity		Total Obs.	01/01/85 to 08/21/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00070	TURBIDITY, (JACKSON CANDLE UNITS)	203	0	11	192	13
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	12	10	2	0	3
00077	TRANSPARENCY, SECCHI DISC (INCHES)	1	0	1	0	1
00078	TRANSPARENCY, SECCHI DISC (METERS)	73	42	13	18	39
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	16	8	8	0	3
82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS NTU	259	259	0	0	8
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	1	0	1	0	1
		565	319	36	210	68 (47)[!]

Nitrate/Nitrogen		Total Obs.	01/01/85 to 08/21/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00600	NITROGEN, TOTAL (MG/L AS N)	2	0	2	0	2
00602	NITROGEN, DISSOLVED (MG/L AS N)	13	0	2	11	3
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	13	0	2	11	4
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	3	0	3	0	1
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	281	28	95	158	41
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	1	0	1	0	1
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	3	0	3	0	2
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	79	68	11	0	20
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	78	1	77	0	10
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	4	0	4	0	4
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	354	97	94	163	50
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	75	72	3	0	9
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	3	0	3	0	2
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	2	0	2	0	1
		911	266	302	343	150 (56)[!]

Phosphate/Phosphorus		Total Obs.	01/01/85 to 08/21/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	2	0	2	0	1
00665	PHOSPHORUS, TOTAL (MG/L AS P)	388	89	192	107	77
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	265	80	85	100	38
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	357	100	95	162	51
		1012	269	374	369	167 (86)[!]

Chlorophyll		Total Obs.	01/01/85 to 08/21/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
32209	CHLOROPHYLL A (UG/L) FLUOROMETRIC CORRECTED	21	21	0	0	8
32210	CHLOROPHYLL A (UG/L) TRICHROMATIC UNCORRECTED	75	36	27	12	30
32211	CHLOROPHYLL A (UG/L) SPECTROPHOTOMETRIC ACID METH.	62	36	26	0	25
		158	93	53	12	63 (38)[!]

Sulfates/Total Dissolved Solids/Hardness		Total Obs.	01/01/85 to 08/21/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00900	HARDNESS, TOTAL (MG/L AS CACO3)	8	0	4	4	3
00945	SULFATE, TOTAL (MG/L AS SO4)	23	0	19	4	13
00946	SULFATE, DISSOLVED (MG/L AS SO4)	175	80	84	11	31
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	19	0	19	0	12
		225	80	126	19	59 (44)[!]

[!]Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

Bacteria		Total Obs.	01/01/85 to 08/21/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	348	348	0	0	12
31503	COLIFORM, TOT, MEMBRANE FILTER,DELAY,M-ENDOMED,35C	44	0	0	44	7
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C	383	377	0	6	20
31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	25	0	25	0	16
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	419	378	25	16	35
		1219	1103	50	66	90 (38)[1]

[1]Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

Toxic Elements		Total Obs.	01/01/85 to 08/21/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
01000	ARSENIC, DISSOLVED (UG/L AS AS)	2	1	1	0	2
01001	ARSENIC, SUSPENDED (UG/L AS AS)	1	0	1	0	1
01002	ARSENIC, TOTAL (UG/L AS AS)	2	1	1	0	2
01025	CADMIUM, DISSOLVED (UG/L AS CD)	13	4	1	8	5
01026	CADMIUM, SUSPENDED (UG/L AS CD)	1	0	1	0	1
01027	CADMIUM, TOTAL (UG/L AS CD)	5	4	1	0	3
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	9	4	1	4	5
01031	CHROMIUM, SUSPENDED (UG/L AS CR)	1	0	1	0	1
01034	CHROMIUM, TOTAL (UG/L AS CR)	5	4	1	0	3
01040	COPPER, DISSOLVED (UG/L AS CU)	27	4	12	11	8
01041	COPPER, SUSPENDED (UG/L AS CU)	1	0	1	0	1
01042	COPPER, TOTAL (UG/L AS CU)	5	4	1	0	3
01049	LEAD, DISSOLVED (UG/L AS PB)	27	4	12	11	8
01050	LEAD, SUSPENDED (UG/L AS PB)	1	0	1	0	1
01051	LEAD, TOTAL (UG/L AS PB)	5	4	1	0	3
71890	MERCURY, DISSOLVED (UG/L AS HG)	16	4	1	11	5
71895	MERCURY, SUSPENDED (UG/L AS HG)	1	0	1	0	1
71900	MERCURY, TOTAL (UG/L AS HG)	41	12	29	0	10
01065	NICKEL, DISSOLVED (UG/L AS NI)	23	1	11	11	6
01067	NICKEL, TOTAL (UG/L AS NI)	1	1	0	0	1
01145	SELENIUM, DISSOLVED (UG/L AS SE)	2	1	1	0	2
01146	SELENIUM, SUSPENDED (UG/L AS SE)	1	0	1	0	1
01147	SELENIUM, TOTAL (UG/L AS SE)	2	1	1	0	2
01075	SILVER, DISSOLVED (UG/L AS AG)	1	0	1	0	1
01076	SILVER, SUSPENDED (UG/L AS AG)	1	0	1	0	1
01077	SILVER, TOTAL (UG/L AS AG)	1	0	1	0	1
01090	ZINC, DISSOLVED (UG/L AS ZN)	27	4	12	11	8
01091	ZINC, SUSPENDED (UG/L ZN)	1	0	1	0	1
01092	ZINC, TOTAL (UG/L AS ZN)	5	4	1	0	3
34536	1,2-DICHLOROBENZENE, TOTAL (UG/L)	2	2	0	0	2
34571	1,4-DICHLOROBENZENE, TOTAL (UG/L)	2	2	0	0	2
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	2	2	0	0	2
34551	1,2,4-TRICHLOROBENZENE, TOTAL (UG/L)	2	2	0	0	2
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	25	0	15	10	5
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	2	2	0	0	2
39340	GAMMA-BHC(LINDANE), WHOLE WATER (UG/L)	15	0	15	0	4
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	12	2	0	10	3
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATER (UG/L)	15	0	15	0	4
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	10	0	0	10	1
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	15	0	15	0	4
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	10	0	0	10	1
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	15	0	15	0	4
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	10	0	0	10	1
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	15	0	15	0	4
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	27	2	15	10	7
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	25	0	15	10	5
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	25	0	15	10	5
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	27	2	15	10	7
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE (UG/L)	10	0	0	10	1
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE (UG/L)	10	0	0	10	1
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	15	0	15	0	4
		519	78	264	177	161 (18)[1]

[1]Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

NPS Servicewide Inventory and Monitoring Program Level I

Water Quality Parameter Inventory Data Evaluation and Analysis:

Park Summary: Level I Group Currentness and Distribution

Parameter Group	Total Obs.	Obs. Since 1985	% Obs. Since 1985	Stations Measuring This Group	% of Total Stations Measuring This Group	Obs. Per Station Measuring This Group	Period of Record For This Group	Observations Per Year of Period of Record
Alkalinity	228	48	21.1	43	20.3	5.3	08/26/68-10/08/87	11.9
pH	648	404	62.3	119	56.1	5.4	08/26/68-08/21/96	23.2
Conductivity	659	403	61.2	119	56.1	5.5	08/26/68-08/21/96	23.5
Dissolved Oxygen	1012	457	45.2	105	49.5	9.6	08/26/68-08/21/96	36.2
Water Temperature	875	411	47.0	132	62.3	6.6	08/26/68-08/21/96	31.3
Flow	139	17	12.2	34	16.0	4.1	01/10/80-09/08/86	20.9
Clarity/Turbidity	565	319	56.5	47	22.2	12.0	08/26/68-08/21/96	20.2
Nitrate/Nitrogen	911	266	29.2	56	26.4	16.3	08/26/68-08/21/96	32.5
Phosphate/Phosphorus	1012	269	26.6	86	40.6	11.8	08/26/68-08/21/96	36.2
Chlorophyll	158	93	58.9	38	17.9	4.2	08/26/68-08/21/96	5.6
Sulfates/Total Dissolved Solids/Hardness	225	80	35.6	44	20.8	5.1	08/26/68-09/09/92	9.4
Bacteria	1219	1103	90.5	38	17.9	32.1	08/27/68-08/23/88	61.0
Toxic Elements	519	78	15.0	18	8.5	28.8	06/01/71-04/28/93	23.7

Water Quality Observations
Outside STORET Edit Criteria for APIS

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter	Date	Time	Parameter Value	Agency	STORET Station ID	Disposition

******** All data observations for APIS were within the STORET edit criteria. ********

APPENDICES

Appendix A

Computer Files Transmitted With

Park Baseline Water Quality Data Inventory and Analysis

Computer disk(s) accompanying this report include up to seven (depending on the presence or absence of certain data elements) compressed (ZIP) files containing digital copies of nearly all the tables, figures, and other materials used to produce this report. To decompress these files, you must use the commonly available shareware program PKUNZIP. The command to type at the DOS prompt is:

PKUNZIP -E *COMPRESS.ZIP FILENAME.EXT*

where COMPRESS.ZIP is the name of one of the seven compressed (ZIP) files listed below and FILENAME.EXT is the name of the file you wish to extract. If you want to decompress all of the files in COMPRESS.ZIP, simply omit the FILENAME.EXT. To obtain a listing of all the files compressed into a particular ZIP file, type the following:

PKUNZIP -V *COMPRESS.ZIP* |MORE

where COMPRESS.ZIP is the name of one of the seven compressed ZIP files listed below. If a ZIP file spans multiple disks, use the last disk of the series (span) when obtaining a listing of all the files compressed into a particular ZIP file. Once you see the file you wish to obtain, substitute this file name for FILENAME.EXT in the first command line above to extract and decompress this particular file.

Included on one of the disk(s) accompanying this report is a program named PRINTZIP. This program will decompress ZIP files which don't span multiple disks and print certain files to a Hewlett-Packard (or compatible) Laser Printer. To use PRINTZIP, however, you must still have a copy of PKUNZIP in a directory listed in your path or in the same directory as the PRINTZIP program. PRINTZIP provides an easy, menu-driven interface for using PKUNZIP to decompress files and then send them to the printer. PRINTZIP allows you to send individual files, groups of files, or all files to the printer. PRINTZIP will not work with ZIP files that span multiple disks.

The following compressed (ZIP) files are included on the disk(s) accompanying this report:

(1) APISTABS.ZIP

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

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

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

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

(d) APISOV0.DOC - Overview of park and retrieved data.

(e) APISOV1.DOC - Station period of record table.

(f) APISOV2.DOC - Parameter period of record table.

(g) APISOV3.DOC - Station/parameter period of record table.

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

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

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

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

(l) APISBAD.DOC - Water quality observation values that were outside the range of one of 190 STORET edit criteria and were either discarded or retained.

All these compressed document files are in ASCII format and contain printer codes appropriate to Hewlett-Packard (or compatible) Laser Printers. While at the DOS prompt, any of these document files may be printed directly to a Hewlett-Packard (or compatible) Laser Printer by using the PRINT command. For example, if the document APISOV1.DOC is in the subdirectory C:\WATER, you could type: PRINT C:\WATER\APISOV1.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) APISFIGS.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 APIS0001. 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 APIS0001) 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) APISPARM.ZIP

This file compresses APISPARM.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) APISSITE.ZIP

This compressed file contains up to five geo-referenced, DBASE III+ compatible site (point location) files documenting the location in the study area of water quality monitoring stations, industrial facilities discharges, drinking water intakes, water gages, and water impoundments. These files include:

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

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

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

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

(e) APISDAMS.DBF - All water impoundments within the project's study area downloaded from the DAMS database.

The absence of any of these files indicates that none of the particular sites were found within the study area. Detailed database structures for each of these files are contained in Appendix B.

(5) APISMISC.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) APISEXEC.DOC - WordPerfect Ver. 5.1 copy of the Executive Summary in the report.

(b) APISTOC.DOC - WordPerfect Ver. 5.1 copy of the report's Table of Contents.

(c) INTRO.DOC - WordPerfect Ver. 5.1 copy of all the text in the report from the Introduction through the Interpretive Guide to Water Quality Results.

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

(e) APISREGI - PCL and CLP (Windows Clipboard) copies of map displaying the regional location of the park and study area.

(f) APISWQ - PCL and CLP (Windows Clipboard) copies of park maps displaying water quality station locations within the park's study area. If, due to scaling and aesthetic concerns, multiple maps were needed, these files will have alphabetically ordered suffixes (APISWQA, APISWQB, APISWQC, etc.) and the index map name will end with an ampersand (&).

(g) APISIDG - PCL and CLP (Windows Clipboard) copies of park maps displaying locations of industrial facilities discharges, drinking water intakes, and stream gages within the park's study area. If, due to scaling and aesthetic concerns, multiple maps were needed, these files will have alphabetically ordered suffixes (APISIDGA, APISIDGB, APISIDGC, etc.) and the index map name will end with an ampersand (&). If no industrial facilities discharges, drinking water intakes, water gages, or water impoundments exist within the park's study area, these files will not be in the compressed (ZIP) file.

(h) APISSEHY - PCL and CLP (Windows Clipboard) copies of the hydrographs or other materials used by WRD staff as the basis for a first attempt at a seasonal analysis of the park's water quality data.

Other materials may also be included in this miscellaneous compressed (ZIP) file as warranted by conditions at the park. As with APISFIGS.ZIP and APISTABS.ZIP, you can use the PRINTZIP program to print any of the PCL files in APISMISC.ZIP provided the ZIP file doesn't span multiple disks. You should not, however, use PRINTZIP to print the WordPerfect document files. The CLP (Windows Clipboard) files can be imported (pasted) and/or edited in most Windows-based word processors and graphics packages.

(6) APISRF3.ZIP

This compressed file contains the Environmental Protection Agency's River Reach File Ver. 3.0 provisional data for the USGS catalog unit(s) encompassing the study area. The attribute data exist in both ASCII and DBASE III+ format, while the geographic traces exist in ASCII format. This compressed file contains four files for each catalog unit that touches the study area. Catalog units are identified by unique 8-character numeric names which identify the region, subregion, accounting unit, and catalog unit. Examples (your 8-character numeric names will be different) of the file types included in this compressed file are:

(a) 12345678.RF3 - ASCII formatted attribute file from the River Reach File for all hydrographic traces within the catalog unit.

(b) 12345678.DBF - DBASE III+ formatted attribute file from the River Reach File for all hydrographic traces within the catalog unit.

(c) 12345678.TRC - ASCII formatted geographic file from the River Reach File containing digital, geo-referenced descriptions of all hydrographic traces within the catalog unit at a scale of 1:100,000 suitable for import into a geographic information system.

(d) 12345678.CUB - ASCII formatted geographic file from the River Reach File containing a digital, geo-referenced description of the catalog unit boundary suitable for import into a geographic information system.

Detailed database structures for RF3-related files are contained in Appendix B.

(7) APISWQMW.ZIP

Between 2000 and 2002, all Baseline Water Quality Data Inventory and Analysis Reports were compiled or re-compiled in Microsoft Word 2000 (Ver. 9.0) format. This complete, digital version of the report will be made available through various means, including the Internet. Although the reports can be opened in Microsoft Word 1997 (Ver. 8.0), the time series and annual and seasonal box-plots may not be centered appropriately on a page due to discrepancies with how Word 2000 formats pictures and how Word 1997 formatted pictures. Consequently, Word 2000 is the recommended software for viewing the report. Prior to printing the report from Word, be sure to enable "Print Text as Graphics" or "Print True Type Font as Graphics" in the Printer Properties. This ensures a more faithful reproduction of the maps included in the Word document.

The Microsoft Word version of the Baseline Water Quality Data Inventory and Analysis Report may differ slightly from the original analog version. Reports issued during 1994-1996 didn't have as many "bells-and-whistles" as subsequent reports. In compiling digital Microsoft Word versions of these earlier reports, attempts were made to bring these 1994-1996 reports up to the current standard wherever feasible and practicable. Unfortunately, some changes were not feasible or practicable. For example, water quality criteria screens were added or modified over time when newer criteria became available. The digital Microsoft Word version of Appendix F presents the latest criteria screening parameters and values. Some of these parameters and/or values may not have been screened against in the EPA water quality criteria analyses for each station and the entire study area in the 1994-1996 analog versions of the report. Similarly, the Introduction, Methodology, and Interpretive Guide to Water Quality Results may mention certain features that aren't included in the 1994-1996 reports. Additionally, to prepare a Microsoft Word version of this report, data were processed through different versions of software than used originally. Consequently, some results presented in the Overview and Executive Summary may differ slightly from those presented in the analog report (eg. # of In Park and Longer Term Stations).

Appendix B

Water Quality Database File Structures

The following table provides the DBASE III+ database field structure for all the water quality parameter data downloaded from STORET. This data will allow parks or other interested parties to replicate the statistical analyses and graphics contained in this report; perform more sophisticated analyses; or to establish a baseline park water quality database.

Parameter Data File: APISPARM.DBF in APISPARM.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
NPSSTATID	1	8	8	NPS Station ID (NPS park code + 4 digit sequence number)
BEGDATE	9	14	6	Measurement Start Date [yymmdd]
BEGTIME	15	18	4	Measurement Start Time [hhmm]
PARMCODE	19	23	5	STORET Parameter Code
PARMVALU	24	39	16.7	Parameter Value
REMARK	40	40	1	Parameter Remark Value
				A=Value is Mean of 2 or More Determinations
				B=Results Based Upon Colony Counts Outside Acceptable Range
				C=Value Calculated
				D=Field Measurement
				E=Extra Sample Taken in Compositing Process
				F=Female Species
				G=Maximum of 2 or More Determinations
				H=Based on Field Kit Determination
				I=Value is Less Than Practical Quantitation Limit and Greater Than or Equal to the Method Detection Limit
				J=Estimated, Not the Result of Analytic Measurement
				K=Off-scale Low, Actual Value Not Known, But Known to be Less Than Value Shown
				L=Off-scale High, Actual Value Not Known, But Known to be Greater Than Value Shown

Parameter Data File: APISPARM.DBF in APISPARM.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
				M=Presence Verified, But Not Quantified, Below Quantification Limit; For Species, Male; For Oxygen Reduction Potential, Indicates a Negative Value
				N=Presumptive Evidence of Presence
				O=Analysis Lost
				P=Too Numerous to Count
				Q=Exceeded Normal Holding Time
				R=Significant Rain in Last 48 Hours
				S=Laboratory test
				T=Less Than Detection Criteria
				U=Analyzed For But Not Detected, Value is Detection Limit For Process Used; If Species, Undetermined
				V=Analyte was Detected in Sample and Method Blank
				W=Less Than Lowest Value Reportable Under Remark "T"
				X=Quasi Vertically-Integrated Sample
				Y=Analysis of Unpreserved Sample
				Z=Too Many Colonies Were Present to Count (TNTC), Value Represents Filtration Value
				$=Calculated By Retrieval Software
MEDIA	41	46	6	Sample Media
DEPTH	47	55	9.3	Depth of Sample [in feet]
ENDDATE	56	61	6	Measurement End Date [yymmdd] [all composite samples]
ENDTIME	62	65	4	Measurement End Time [hhmm] [all composite samples]
SAMPTYPE	66	69	4	Type of Sample ["sophisticated" composite samples]
				C=Continuous Collection
				G=Collection of Individual Grab Samples
				GNxx=xx is the Number of Individual Grab Samples
				B=N/A

Parameter Data File: APISPARM.DBF in APISPARM.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
COMPTYPE	70	70	1	Composite Value Type ["sophisticated" composite samples]
				A=Average
				H=Maximum
				L=Minimum
				N=Number of Observations
				#=Number of Observations
				S=Standard Deviation
				U=Sum of Squares
				V=Variance
				C=Coefficient of Error
				X=Coefficient of Variance
				E=Skewness
				F=Kurtosis
				Z=Number of Observations That Exceed an Established Limit
				%=Precision
				$=Accuracy
				B=N/A
				D=Indicates Replicate Sample
COMPST	71	71	1	Composite Space/Time Indicator
				S=Space
				T=Time
				B=Space and Time
				F=Flow Proportional
				1-9=Replicate Number

Note: DBASE III+ record lengths will be one greater than the last stop column displayed (71 here) because DBASE III+ reserves the first space/column of every record for a deletion flag. Hence, DBASE III+ will display a record length of 72 for this database.

The following table provides the DBASE III+ database field structure for all the water quality station locations downloaded from STORET. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

Water Quality Station Data File: APISWQ.DBF in APISSITE.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: APISWQ.DBF in APISSITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
RF3INDEX	585	601	17	RF3 Reach Number Location [3]
RF3MILE	602	607	6.2	Mile point on RF3 Reach [3]
RF3LOC	608	610	3	Indicates the Location as ON or OFF RF3 Reach [2]
RF3DIST	611	616	6.2	Distance From RF3 Reach
DEPH2O	617	620	4	Depth of Water at Station Location [in feet]
ELEV	621	625	5	Station Elevation
ECOREG	626	628	3	ECO Region
H2OBODY	629	678	50	Waterbody ID
AQUIFERS	679	718	40	Aquifer Description
STATDESC1	719	790	72	Station Sentence Description
STATDESC2	791	862	72	Station Sentence Description
STATDESC3	863	934	72	Station Sentence Description
STATDESC4	935	1006	72	Station Sentence Description
STATDESC5	1007	1078	72	Station Sentence Description
STATDESC6	1079	1150	72	Station Sentence Description
STATDESC7	1151	1222	72	Station Sentence Description
STATDESC8	1223	1294	72	Station Sentence Description
STATDESC9	1295	1366	72	Station Sentence Description
STATDESC10	1367	1438	72	Station Sentence Description
STATDESC11	1439	1510	72	Station Sentence Description
STATDESC12	1511	1582	72	Station Sentence Description
STATDESC13	1583	1654	72	Station Sentence Description
STATDESC14	1655	1726	72	Station Sentence Description
STATDESC15	1727	1798	72	Station Sentence Description
STATLOCKED	1799	1799	1	Station Locked (Logical) True/False

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

Industrial Facilities Discharges File: APISIFD.DBF in APISSITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
SITEID	1	9	9	Site Identifier (NPDES Number)
LATITUDE	10	17	8	Facility Latitude (Degrees:Minutes:Seconds)
LONGITUDE	18	26	9	Facility Longitude (Degrees:Minutes:Seconds)
LAT	27	37	11.6	Facility Latitude (decimal degrees, (-) below equator)
LON	38	48	11.6	Facility Longitude (decimal degrees, (-) west. hem.)
RF1INDEX	49	59	11	RF1 Reach Number Location
RF1MILE	60	65	6.2	Mile Point on RF1 Reach
RF1DIST	66	71	6.2	Distance From RF1 Reach
RF3INDEX	72	88	17	RF3 Reach Number Location
RF3MILE	89	94	6.2	Mile Point on RF3 Reach
RF3DIST	95	100	6.2	Distance From RF3 Reach
ADR	101	125	25	Address
BFL	126	132	7.2	Total Direct Combined C&P Flow (1000 GPD)
CCFLG	133	133	1	Coastal County Flag "Y"/"N"/"E"=Estuary
CC1	134	138	5	City Code #1 (EPA Code)
CFL	139	145	7.2	Total Direct Cooling Flow (1000 GPD)
CNC	146	148	3	County Code (FIPS)
CTY	149	168	20	City Name
CZIP	169	177	9	Canadian Zip Code
DNB	178	186	9	Dunn & Bradstreet Number
DNBFLG	187	187	1	Dunn & Bradstreet PCS Source Flag
EGF	188	202	15.4	Flow From Effluent Guidelines (1000 GPD)
EGS	203	208	6	Effluent Guidelines Subcategory
EXPDT	209	216	8	Expiration Date (mm/dd/yy)
E308SN	217	220	4	Effluent Guidelines Survey Number
FAC	221	229	9	SCS Facility Identifier (Cross-Reference)
FDS	230	232	3	Facility Data Source

Industrial Facilities Discharges File: APISIFD.DBF in APISSITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
FFL	233	239	7.2	Total Facility Flow (1000 GPD)
FHF	240	240	1	Fac. Hit Flag (Reach File) V=Versar Assumed
FLOTYP	241	243	3	I=Blow Down, R=Bottom Ash, S=Fly Ash
FLR	244	250	7.2	Flow Recvd-Industrial (1000 GPD) Permit Data
FRDS	251	259	9	FRDS ID# - XREF To Water Supply
FRW	260	289	30	Facility Receiving Water Name
FS1	290	293	4	Facility SIC Code (From PCS)
FS2	294	297	4	Facility SIC Code #1
FS3	298	301	4	Facility SIC Code #2
FS4	302	305	4	Facility SIC Code #3
FS5	306	309	4	Facility SIC Code #4
FUD	310	317	8	Facility Level Last Date Updated (mm/dd/yy)
IACC	318	318	1	Inactive/Active Indicator ("I" or "A")
ICAT	319	320	2	WQAB Industrial Category
ICAT2	321	322	2	WQAB Industrial Category 2
ICAT3	323	324	2	WQAB Industrial Category 3
IFL	325	331	7	Total Indirect Flow (1000 GPD)
IFT	332	332	1	Illinois Facility Type (A thru Z)
IG1	333	334	2	Facility Industrial Group #1
IG2	335	336	2	Facility Industrial Group #2
IJCN	337	346	10	Canadian Record Identifier
INACT	347	353	7	Inactive/Rescinded P=Based on Permit;A=Actual
INDCNT	354	357	4	Computed Number of Indirect Dischargers
LATLON	358	372	15	Polygon Retrieval Lat/Long.
MAJ	373	373	1	Major-Minor Flag (From PCS)
MAPID	374	377	4	Map Identifier
MJMN	378	381	4	Major/Minor Basin (EPA-STORET)
NAM	382	441	60	Facility Name
NDC	442	444	3	Number of Discharges (Pipes)

Industrial Facilities Discharges File: APISIFD.DBF in APISSITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
NDSFLO	445	451	7.2	NEEDS Flow (1000 GPD)
NDSIFLO	452	458	7.2	NEEDS Industrial Flow (1000 GPD)
NID	459	462	4	Number of Indirect Dischargers
NPC	463	463	1	NEEDS Pre-Treatment Code "Y"=Yes, "N"=No
NPS	464	464	1	NPDES Facility Source/Status
NSN	465	473	9	NEEDS Survey Number
NTC	474	474	1	NEEDS Treatment Code
OCP	475	480	6	Organic Chemical Producers ID Number
ODESCC	481	481	1	ODES Coastal County "Y"=Yes; "N"=No
OFL	482	488	7.2	Total Non-Direct Other Flow (1000 GPD)
OWN	489	491	3	Ownership Code
PFL	492	498	7.2	Total Direct Process Flow (1000 GPD)
REG	499	500	2	EPA Region
REGKEY	501	504	4	Region Key
RSLOFLO	505	511	7.2	Receiving Stream Low Flow
RSMNFLO	512	518	7.2	Receiving Stream Mean Flow
STA	519	520	2	State Postal Abbreviation
STAID	521	535	15	State Identifier
STC	536	537	2	State Code (FIPS)
STCITY	538	544	7	State/City Code
TFLOW	545	551	7.2	Type Flow (1000 GPD)
UFL	552	558	7.2	Total Direct Undefined Flow (1000 GPD)
XEGS	559	561	3	Effluent Guidelines Subcat Index
XKEY	562	562	1	"1","2","3","4","5","6","7","8","9"
XNME	563	565	3	GLP,DIR,F2C,ENF,CET,LAG,PPB,M85,M86
ZIP	566	570	5	Zip Code

The following table provides the DBASE III+ database field structures for drinking water intakes from the EPA DRINKS database. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

Drinking Water Intakes File: APISDRIN.DBF in APISSITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
SITEID	1	20	20	Site Identifier
LATITUDE	21	28	8	Facility Latitude (Degrees:Minutes:Seconds)
LONGITUDE	29	37	9	Facility Longitude (Degrees:Minutes:Seconds)
LAT	38	48	11.6	Facility Latitude (decimal degrees, (-) below equator)
LON	49	59	11.6	Facility Longitude (decimal degrees, (-) west. hem.)
RF1INDEX	60	70	11	RF1 Reach Number Location
RF1MILE	71	76	6.2	Mile Point on RF1 Reach
RF1DIST	77	82	6.2	Distance From RF1 Reach
RF3INDEX	83	99	17	RF3 Reach Number Location
RF3MILE	100	105	6.2	Mile Point on RF3 Reach
RF3DIST	106	111	6.2	Distance From RF3 Reach
AQCD	112	115	4	Aquifer Code
ASC	116	138	23	STORET Agency/Station Code
AVGD	139	142	4	Average Depth
BUY	143	143	1	Purchase Code
CC1	144	148	5	City Code #1 (EPA Code)
CNC	149	151	3	County Code (FIPS)
CNME	152	166	15	Contact Name
CNN	167	186	20	County Name
CTITLE	187	201	15	Contact Title
CTY	202	221	20	City Name
DUD	222	229	8	Date of Update
FRDS	230	238	9	FRDS ID# - Cross-Reference
GEOAG	239	258	20	Geologic Age
GEOCDE	259	261	3	Geologic Age Code
IDAT	262	269	8	Date (mm/dd/yy)

Drinking Water Intakes File: APISDRIN.DBF in APISSITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
INTAKET	270	270	1	Type Source G/S/B
INTRVWR	271	285	15	Interviewer
MAXD	286	289	4	Maximum Depth
MILES	290	296	7.2	Miles
MIND	297	300	4	Minimum Depth
NAME	301	320	20	Name
NPD	321	329	9	NPDES# XREF to IFD Database
NWLS	330	332	3	Number of Wells
OWN	333	335	3	Ownership
PAVGF	336	342	7.2	Production Avg. Daily (Gal/Day)
PCTSUP	343	345	3	%Surface / %Ground
PHONE	346	355	10	Telephone Number
PMAXF	356	362	7.2	Production Max. Daily (Gal/Day)
POPSV	363	371	9	Population Served
REG	372	373	2	EPA Region
SHLAT	374	379	6	Sitehelp Latitude (DDMMSS)
SHLNG	380	386	7	Sitehelp Longitude (DDDMMSS)
SHMILES	387	393	7.2	Sitehelp Miles
SHNME	394	403	10	Sitehelp Source Name
SHPCT	404	410	7.2	Sitehelp Percent of Reach Miles
SRC	411	413	3	Sitehelp Source Code
STA	414	415	2	State Abbreviation
STC	416	417	2	State Code (FIPS)
TUF	418	424	7.2	Total Utility Flow
TYPCDE	425	425	1	Type Code
UHF	426	426	1	Utility Hit Flag (Reach File)
VCDE	427	427	1	Versar Code='V'=>25K; '*'=<25K POPSVD
WFPC	428	428	1	Wellfield Precision Code
WFTYP	429	429	1	Well Type (Cassing,Artesian,Infiltration,etc.)

Drinking Water Intakes File: APISDRIN.DBF in APISSITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
WUN	430	449	20	Water Utility Name

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

Water Gage File: APISGAGE.DBF in APISSITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
SITEID	1	20	20	Site Identifier
LATITUDE	21	28	8	Facility Latitude (DDMMSS)
LONGITUDE	29	37	9	Facility Longitude (DDDMMSS)
LAT	38	48	11.6	Facility Latitude (decimal degrees, (-) below equator)
LON	49	59	11.6	Facility Longitude (decimal degrees, (-) west. hem.)
RF1INDEX	60	70	11	RF1 Reach Number Location
RF1MILE	71	76	6.2	Mile Point on RF1 Reach
RF1DIST	77	82	6.2	Distance From RF1 Reach
RF3INDEX	83	99	17	RF3 Reach Number Location
RF3MILE	100	105	6.2	Mile Point on RF3 Reach
RF3DIST	106	111	6.2	Distance From RF3 Reach
JAN	112	118	7.2	Monthly Flow - January
FEB	119	125	7.2	Monthly Flow - February
MAR	126	132	7.2	Monthly Flow - March
APR	133	139	7.2	Monthly Flow - April
MAY	140	146	7.2	Monthly Flow - May
JUN	147	153	7.2	Monthly Flow - June
JUL	154	160	7.2	Monthly Flow - July
AUG	161	167	7.2	Monthly Flow - August
SEP	168	174	7.2	Monthly Flow - September
OCT	175	181	7.2	Monthly Flow - October
NOV	182	188	7.2	Monthly Flow - November
DEC	189	195	7.2	Monthly Flow - December
RGN	196	197	2	Region Code
AREA	198	204	7.2	Drainage Area (SQ.MI.)
DUD	205	212	8	Date of Update

Water Gage File: APISGAGE.DBF in APISSITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
FBCF	213	213	1	Flag - Basic Characteristic File ('Y')
FDFF	214	214	1	Flag - Daily Flows File ('Y')
FQMINV	215	224	10	IHS Pt. Files Index
GHF	225	225	1	Hit Flag (Reach File)
ICDE	226	226	1	Integrity Code
LFVEL	227	233	7.2	Low Flow Velocity
METHOD	234	236	3	Calculation Method Code
MFVEL	237	243	7.2	Mean Flow Velocity
MNFLO	244	250	7.2	USGS Mean Annual Flow
NME	251	298	48	Station Name
SHLAT	299	304	6	Sitehelp Latitude (DDMMSS)
SHLNG	305	311	7	Sitehelp Longitude (DDDMMSS)
SHMILES	312	318	7.2	Sitehelp Miles
SHNME	319	328	10	Sitehelp Source Name
SHPCT	329	335	7.2	Sitehelp Percent of Reach Miles
SITE	336	337	2	Site Location
SRC	338	340	3	Sitehelp Source Code
STCTY	341	345	5	State/County Numeric Code
SVTEN	346	352	7.2	USGS 7-10 Year Flow
BEG_WYR	353	356	4	Beginning Water Year
END_WYR	357	359	4	Ending Water Year
ELEV	361	368	8.2	Elevation (Feet)
WELL_DP	369	376	8.2	Well Depth (Feet)

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

Water Impoundment File: APISDAMS.DBF in APISSITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
SITEID	1	7	7	Site Identifier
SOURCE	8	10	3	Source of Data
ST1	11	12	2	Primary State Code Abbreviation
STCTY1	13	17	5	State/County Numeric Code
NAME	18	47	30	Official Name of Dam
LATITUDE	48	53	6	Facility Latitude (DDMMSS)
LONGITUDE	54	60	7	Facility Longitude (DDDMMSS)
LAT	61	70	10.6	Facility Latitude (decimal degrees, (-) below equator)
LON	71	81	11.6	Facility Longitude (decimal degrees, (-) west. hem.)
INME	82	111	30	Impoundment Name
RNME	112	139	28	River, Stream, or Tributary Name on Which Dam Built
CUSEGMI	140	149	10	Catalog Unit, Segment, and Segment Length
REGN	150	151	2	Water Resources Council Region Code
RGBSN	152	155	4	Water Resources Region/Basin Code
CU	156	163	8	Catalog Unit
SEG	164	166	3	Reach Segment of Dam
SEGL	167	171	5.2	Reach Segment Length
PURP	172	172	1	Major Purpose of Dam
				I=Irrigation
				H=Hydroelectric
				N=Navigation
				S=Water Supply
				R=Recreation
				P=Stock/Farm Pond
				D=Debris Control
				F=Flood Control

Water Impoundment File: APISDAMS.DBF in APISSITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
				O=Other
FRF3	173	189	17	RF3 Reach Number Location
FRF3MI	190	194	5	Mile Point on RF3 Reach
PURPKEY	195	195	1	Purpose Key
PUR2	196	196	1	Purpose of Dam 2 (See Above)
PUR3	197	197	1	Purpose of Dam 3 (See Above)
PUR4	198	198	1	Purpose of Dam 4 (See Above)
PUR5	199	199	1	Purpose of Dam 5 (See Above)
PUR6	200	200	1	Purpose of Dam 6 (See Above)
PUR7	201	201	1	Purpose of Dam 7 (See Above)
PUR8	202	202	1	Purpose of Dam 8 (See Above)
PUR9	203	203	1	Purpose of Dam 9 (See Above)
PUR10	204	204	1	Purpose of Dam 10 (See Above)
TYPDAM	205	206	2	Major Dam Portion Type
				RE=Earth
				VA=Vaulted Arch
				CD=Buttress
				PG=Gravity
				ER=Rockfill
				MV=Multi-Arch
				OT=Other
YRCMP	207	210	4	Year Dam Completed
SHGT	211	214	4	Structural Height (Feet)
HHGT	215	218	4	Hydraulic Height (Feet)
VNORM	219	236	8	Normal Storage of Impoundment (Acre-Feet)
VMAX	227	234	8	Maximum Storage of Impoundment (Acre-Feet)
LCRST	235	239	5	Crest Length of Dam (Feet)
TSPL	240	240	1	Spillway Type
				C=Controlled

Water Impoundment File: APISDAMS.DBF in APISSITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
				U=Uncontrolled
				N=None
				X=Unknown
WSPL	241	244	4	Dam Spillway Width (Feet)
QMAX	245	251	7	Maximum Spillway Discharge (CFS)
PINS	252	258	7.2	Quantity of Installed Power (Megawatts)
PPRO	259	265	7.2	Quantity of Proposed Power (Megawatts)
LOCK	266	266	1	Number of Navigational Locks
OWNR	267	290	24	Name of Impoundment Owner
PFOWN	291	291	1	Ownership Code
				N=Non-Federal
				G=Federal Government Agency
				C=Corps of Engineers
				X=Unknown
FEDR	292	292	1	Federally Regulated (Y=Yes, N=No, X=Unknown)
FLND	293	293	1	Private Dam on Federal Land (Y=Yes, N=No, X=Unknown)
SCSA	294	294	1	Type of Soil Conservation Service Assistance
				N=No Assistance
				T=Technical Assistance
				F=Financial Assistance
				B=Both Technical and Financial Assistance
				X=Unknown
DHAZ	295	295	1	Degree of Downstream Hazard
				1=High (More than a Few Lives Lost; Excessive Economic Loss)
				2=Significant (A Few Lives Lost; Appreciable Economic Loss)
				3=Low (No Lives Expected Lost; Minimal Economic Loss)
DCITY	296	319	24	Nearest Downstream City

Water Impoundment File: APISDAMS.DBF in APISSITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
POP	320	326	7	Population of Downstream City
DMILE	327	331	5.2	Distance of Downstream City From Dam (Miles)
RET	332	342	11.2	Retention Coefficient (Dimensionless)
MIX	343	353	11.2	Mixing Coefficient (Dimensionless)
SAREA	354	361	8	Surface Area of Impoundment (Acres)
SAFLG	362	362	1	Surface Area Flag (C=Calc., M=Measured, O=Other)
ILNTH	363	367	5	Length of Impoundment (Feet)
ILFLG	368	368	1	Impoundment Length Flag (C=Calc., M=Measured, O=Other)
UPKEY	369	374	6	Update Key (YYMMDD)

The following table provides the ASCII and DBASE III+ database field structures for the EPA River Reach File Ver. 3.0 (1:100,000 scale hydrography) attributes. The actual numeric file names will vary depending on the catalog unit(s). This information can be readily incorporated into the park's Geographic Information System.

RF3 Structure File: 12345678.RF3 and 12345678.DBF in APISRF3.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
CATUNIT	1	8	8	Cataloging Unit (CU)
SEGM	9	12	4	Segment Number (SEG)
MI	13	17	5.2	Mile Point (MI)
UPMI	18	22	5.2	Upstream Mile Pt.
SEQNO	23	33	11.6	Hydro Sequence No.
RFLAG	34	34	1	Reach Flag (0,1)
OWFLAG	35	35	1	Open Water Flag (0,1)
TFLAG	36	36	1	Terminal Flag (0,1)
SFLAG	37	37	1	Start Flag (0,1)
RCHTYPE	38	38	1	Reach Type Code
LEV	39	40	2	Stream Level
JUNC	41	42	2	Level of Downstream Reach
DIVERGENCE	43	43	1	Divergence Code
STARTCU	44	51	8	Start CU
STRTSG	52	55	4	Start SEG
STOPCU	56	63	8	Stop CU
STOPSG	64	67	4	Stop SEG
USDIR	68	68	1	Upstream Direction
TERMID	69	73	5	Terminal Stream ID
TRMBLV	74	74	1	Terminal Base Level
PNAME	75	104	30	Primary Name
PNMCD	105	115	11	Primary Name Code
CNAME	116	145	30	Complement Name
CNMCD	146	156	11	Complement Name Code

RF3 Structure File: 12345678.RF3 and 12345678.DBF in APISRF3.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
OWNAME	157	186	30	Open Water Name
OWNMCD	187	197	11	Open Water Name Code
DSCU	198	205	8	Downstream CU
DSSEG	206	209	4	Downstream SEG
DSMI	210	214	5.2	Downstream MI
CCU	215	222	8	Complement CU
CSEG	223	226	4	Complement SEG
CMILE	227	231	5.2	Complement MI
CDIR	232	232	1	Complement Direction
ULCU	233	240	8	Upstream Left CU
ULSEG	241	244	4	Upstream Left SEG
ULMI	245	249	5.2	Upstream Left MI
URCU	250	257	8	Upstream Right CU
URSEG	258	261	4	Upstream Right SEG
URMI	262	266	5.2	Upstream Right MI
SEGL	267	272	6.2	Reach Length (Miles)
RFORGFLAG	273	273	1	RF Orgin flag(1,2,3)
ALTPNMCD	274	281	8	Alt. Primary Name Code
ALTOWNMC	282	289	8	Alt. OW Name Code
DLAT	290	297	8.4	Downstream Latitude
DLONG	298	305	8.4	Downstream Longitude
ULAT	306	313	8.4	Upstream Latitude
ULONG	314	321	8.4	Upstream Longitude
MINLAT	322	329	8.4	Minimum Latitude
MINLONG	330	337	8.4	Minimum Longitude
MAXLAT	338	345	8.4	Maximum Latitude
MAXLONG	346	353	8.4	Maximum Longitude
NDLGREC	354	357	4	No. of DLG Records
LL1KEY1	358	367	10	Starting DLG LL Key1

RF3 Structure File: 12345678.RF3 and 12345678.DBF in APISRF3.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
LL2KEY1	368	377	10	Ending DLG LL Key1
LL1KEY2	378	387	10	Starting DLG LL Key2
LL2KEY2	388	497	10	Ending DLG LL Key2
LL1KEY3	398	407	10	Starting DLG LL Key3
LL2KEY3	408	417	10	Ending DLG LL Key3
LL1KEY4	418	427	10	Starting DLG LL Key4
LL2KEY4	428	437	10	Ending DLG LL Key4
LL1KEY5	438	447	10	Starting DLG LL Key5
LL2KEY5	448	457	10	Ending DLG LL Key5
LL1KEY6	458	467	10	Starting DLG LL Key6
LL2KEY6	468	477	10	Ending DLG LL Key6
LL1KEY7	478	487	10	Starting DLG LL Key7
LL2KEY7	488	597	10	Ending DLG LL Key7
LL1KEY8	498	507	10	Starting DLG LL Key8
LL2KEY8	508	517	10	Ending DLG LL Key8
LL1KEY9	518	527	10	Starting DLG LL Key9
LL2KEY9	528	537	10	Ending DLG LL Key9
LL1KEY10	538	547	10	Start DLG LL Key 10
LL2KEY10	548	557	10	Ending DLG LL Key10
LN1AT2	558	561	4	DLG Line Attr. 1
LN2AT2	562	565	4	DLG Line Attr. 2
AREA1	566	569	4	DLG Area ID 1
AREA2	570	573	4	DLG Area ID 2
AR1AT2	574	577	4	DLG Area Attribute
AR1AT4	578	581	4	DLG Area Attribute
AR2AT2	582	585	4	DLG Area Attribute
AR2AT4	586	589	4	DLG Area Attribute
UPDATE1	590	595	6	Update Date #1 (mmddyy)
UPDTCD1	596	603	8	Update Type Code #1

RF3 Structure File: 12345678.RF3 and 12345678.DBF in APISRF3.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
UPDTSRC1	604	611	8	Update Source #1
UPDATE2	612	617	6	Update Date #2 (mmddyy)
UPDTCD2	618	625	8	Update Type Code#2
UPDTSRC2	626	633	8	Update Source #2
UPDATE3	634	639	6	Update Date #3 (mmddyy)
UPDTCD3	640	647	8	Update Type Code #3
UPDTSRC3	648	655	8	Update Source #3
DIVCU	656	663	8	Divergent CU
DIVSEG	664	667	4	Divergent SEG
DIVMILE	668	672	5.2	Divergent MI
DLGID	673	678	6	DLG Number Special Use For Internal State Codes
FILLER	678	685	7	Filler: Future Use

Note: The structure for the .DBF file varies slightly from the RF3 structure displayed here in that the fields UPDATE1, UPDATE2, and UPDATE3 have a width of 8 and the last two fields, DLGID and FILLER, have been replaced with a field named ID of length 17. This ID field combines the CATUNIT, SEGM, and MI fields.

The following table provides the ASCII database field structures for the EPA River Reach File Ver. 3.0 (1:100,000 scale hydrography) traces. The actual numeric file names will vary depending on the catalog unit(s). This file contains the actual hydrographic network and is suitable for conversion into a variety of Geographic Information System formats.

RF3 Trace File: 12345678.TRC in APISRF3.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 APISRF3.ZIP
First Line = Catalog Unit Number (8 Characters)
Subsequent Lines:
L=DDMMSS,L=DDDMMSS,L=DDMMSS,L=DDDMMSS,L=DDMMSS,L=DDDMMSS, ...
Example:
02070010
L=391259,L=0770809,L=391220,L=0770749,L=391147,L=0770715,L=391120,L=0770633,
L=391058,L=0770535,L=391042,L=0770520,L=391016,L=0770427,L=390948,L=0770416,
L=390526,L=0765331,L=390500,L=0765149,L=390456,L=0765139,L=390357,L=0765123,
...
L=390744,L=0771007,L=390826,L=0771022,L=390910,L=0771022,L=390950,L=0771003,
L=391107,L=0770922,
There can be as many as four latitude/longitude pairs per line.

The following table provides the DBASE III+ database field structure of the Water Resources Division's "encyclopedia" file that documents the minimum and maximum parameter values found and the park(s) where they occurred. This file is intended for Water Resources Division internal use, but will be available to anyone upon request after Baseline Water Quality Data Inventory and Analysis reports have been completed for all parks.

Encyclopedia File: WRD File For Internal Use Only				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
PARM	1	5	5	STORET Parameter Code
PARMNAME	6	45	40	Parameter Name
MINVAL	46	61	16.7	Minimum Value
MINVALPARK	62	65	4	Park Unit with Minimum Value
MAXVAL	66	71	16.7	Maximum Value
MAXVALPARK	72	75	4	Park Unit with Maximum Value

Appendix C

STORET Water Quality Control/Edit Checking

The following table provides the high and low values used by STORET since November 1983 for 190 common water quality parameters to screen or error check data. Data entered into STORET prior to November 1983, however, were not subjected to this edit/bounds check. Additionally, data from the USGS WATSTORE system that is loaded into STORET is never subjected to these edit criteria and agencies entering data in STORET can override these edit criteria to enter data values that fall outside a range. As a consequence, all data downloaded from STORET for the purposes of this project were filtered through these edit criteria to document values outside the generally accepted ranges. Decisions were then made on a case-by-case basis to retain or discard obviously incorrect data. Refer to the Water Quality Observations Outside STORET Edit Criteria section of the Interpretive Guide To Water Quality Results chapter for more information on this subject.

STORET Code	STORET Parameter Description	High Value	Low Value
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	37.0	-2.0
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	98.0	31.0
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	52.0	-40.0
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	125.0	-40.0
00026	TOXICS-IDENTIFY DATA COLLECTION BY EPA DIRECTIVE	1990.9	1977.0
00032	CLOUD COVER (PERCENT)	101.0	0.0
00035	WIND VELOCITY (MILES PER HOUR)	85.0	0.0
00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	361.0	0.0
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	15.0	0.0
00070	TURBIDITY, (JACKSON CANDLE UNITS)	1500.0	0.0
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	101.0	0.0
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	500.0	0.0
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	1000.0	0.0
00077	TRANSPARENCY, SECCHI DISC (INCHES)	600.0	0.0
00080	COLOR (PLATINUM-COBALT UNITS)	500.0	0.0
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	500.0	0.0
00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)	250.0	0.0
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	60000.0	1.0
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	60000.0	1.0
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	30.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
00300	OXYGEN, DISSOLVED (MG/L)	30.0	0.0
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION%	200.0	0.0
00310	BOD, 5 DAY, 20 DEG C (MG/L)	150.0	0.0
00335	COD, .025N K2CR2O7 (MG/L)	1000.0	0.0
00340	COD, .25N K2CR2O7 (MG/L)	1000.0	0.0
00365	CHLORINE DEMAND, 15 MINUTE (MG/L)	15.0	0.0
00400	PH (STANDARD UNITS)	12.0	0.9
00403	PH, LAB, STANDARD UNITS, (STANDARD UNITS)	12.0	0.9
00405	CARBON DIOXIDE (MG/L AS CO2)	100.0	0.0
00406	PH, FIELD (STANDARD UNITS)	12.0	0.9
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	1000.0	0.0
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	750.0	0.0
00435	ACIDITY, TOTAL (MG/L AS CACO3)	1000.0	0.0
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	1000.0	0.0
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	750.0	0.0
00440	BICARBONATE ION (MG/L AS HCO3)	450.0	0.0
00445	CARBONATE ION (MG/L AS CO3)	100.0	0.0
00480	SALINITY - PARTS PER THOUSAND	40.0	0.0
00500	RESIDUE, TOTAL (MG/L)	15000.0	0.0
00505	RESIDUE, TOTAL VOLATILE (MG/L)	10000.0	0.0
00510	RESIDUE, TOTAL FIXED (MG/L)	10000.0	0.0
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), (MG/L)	20000.0	0.0
00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	10000.0	0.0
00525	RESIDUE, FIXED FILTRABLE (MG/L)	10000.0	0.0
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10000.0	0.0
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	10000.0	0.0
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	10000.0	0.0
00545	RESIDUE, SETTLEABLE (ML/L)	1000.0	0.0
00546	RESIDUE, SETTLEABLE (MG/L)	1000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
00550	OIL & GREASE (SOXHLET EXTRACTION) TOTAL,REC., (MG/L)	250.0	0.0
00600	NITROGEN, TOTAL (MG/L AS N)	100.0	0.0
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	15.0	0.0
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	25.0	0.0
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	20.0	0.0
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	5.0	0.0
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	50.0	0.0
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	50.0	0.0
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	55.0	0.0
00635	NITROGEN, AMMONIA & ORG., TOTAL 1 DET (MG/L AS N)	70.0	0.0
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	30.0	0.0
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	30.0	0.0
00655	PHOSPHATE, POLY (MG/L AS PO4)	30.0	0.0
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	30.0	0.0
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10.0	0.0
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10.0	0.0
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	100.0	0.0
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	100.0	0.0
00685	CARBON, TOTAL INORGANIC (MG/L AS C)	100.0	0.0
00690	CARBON, TOTAL (MG/L AS C)	150.0	0.0
00720	CYANIDE, TOTAL (MG/L AS CN)	10.0	0.0
00745	SULFIDE, TOTAL (MG/L AS S)	1500.0	0.0
00746	SULFIDE, DISSOLVED (MG/L AS S)	1500.0	0.0
00760	SULFITE WASTE LIQUOR, PEARL BENSON INDEX (MG/L)	150.0	0.0
00900	HARDNESS, TOTAL (MG/L AS CACO3)	5000.0	0.0
00910	CALCIUM (MG/L AS CACO3)	3000.0	0.0
00915	CALCIUM, DISSOLVED (MG/L AS CA)	1000.0	0.0
00916	CALCIUM, TOTAL (MG/L AS CA)	1000.0	0.0
00920	MAGNESIUM (MG/L AS CACO3)	3000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	1000.0	0.0
00927	MAGNESIUM, TOTAL (MG/L AS MG)	1000.0	0.0
00929	SODIUM, TOTAL (MG/L AS NA)	5000.0	0.0
00930	SODIUM, DISSOLVED (MG/L AS NA)	5000.0	0.0
00931	SODIUM ADSORPTION RATIO	50.0	0.0
00935	POTASSIUM, DISSOLVED (MG/L AS K)	175.0	0.0
00937	POTASSIUM, TOTAL MG/L AS K)	175.0	0.0
00940	CHLORIDE, TOTAL IN WATER, (MG/L)	22000.0	0.0
00945	SULFATE, TOTAL (MG/L AS SO4)	2500.0	0.0
00946	SULFATE, DISSOLVED (MG/L AS SO4)	2500.0	0.0
00950	FLUORIDE, DISSOLVED (MG/L AS F)	15.0	0.0
00951	FLUORIDE, TOTAL (MG/L AS F)	15.0	0.0
00955	SILICA, DISSOLVED (MG/L AS SI02)	2000.0	0.0
00956	SILICA, TOTAL (MG/L AS SI02)	2000.0	0.0
01000	ARSENIC, DISSOLVED (UG/L AS AS)	5000.0	0.0
01002	ARSENIC, TOTAL (UG/L AS AS)	5000.0	0.0
01005	BARIUM, DISSOLVED (UG/L AS BA)	2000.0	0.0
01007	BARIUM, TOTAL (UG/L AS BA)	2000.0	0.0
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	2000.0	0.0
01012	BERYLLIUM, TOTAL (UG/L AS BE)	2000.0	0.0
01020	BORON, DISSOLVED (UG/L AS B)	5000.0	0.0
01022	BORON, TOTAL (UG/L AS B)	5000.0	0.0
01025	CADMIUM, DISSOLVED (UG/L AS CD)	500.0	0.0
01027	CADMIUM, TOTAL (UG/L AS CD)	500.0	0.0
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	2000.0	0.0
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	2000.0	0.0
01033	CHROMIUM, TRI-VAL (UG/L AS CR)	2000.0	0.0
01034	CHROMIUM, TOTAL (UG/L AS CR)	2000.0	0.0
01040	COPPER, DISSOLVED (UG/L AS CU)	2000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
01042	COPPER, TOTAL (UG/L AS CU)	5000.0	0.0
01045	IRON, TOTAL (UG/L AS FE)	56000.0	0.0
01046	IRON, DISSOLVED (UG/L AS FE)	56000.0	0.0
01047	IRON, FERROUS (UG/L AS FE)	56000.0	0.0
01049	LEAD, DISSOLVED (UG/L AS PB)	1000.0	0.0
01051	LEAD, TOTAL (UG/L AS PB)	1000.0	0.0
01055	MANGANESE, TOTAL (UG/L AS MN)	5000.0	0.0
01056	MANGANESE, DISSOLVED (UG/L AS MN)	5000.0	0.0
01065	NICKEL, DISSOLVED (UG/L AS NI)	2000.0	0.0
01067	NICKEL, TOTAL (UG/L AS NI)	2000.0	0.0
01075	SILVER, DISSOLVED (UG/L AS AG)	5000.0	0.0
01077	SILVER, TOTAL (UG/L AS AG)	5000.0	0.0
01090	ZINC, DISSOLVED (UG/L AS ZN)	25000.0	0.0
01092	ZINC, TOTAL (UG/L AS ZN)	25000.0	0.0
01105	ALUMINUM, TOTAL (UG/L AS AL)	20000.0	0.0
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	20000.0	0.0
01145	SELENIUM, DISSOLVED (UG/L AS SE)	100.0	0.0
01501	ALPHA, TOTAL	200.0	0.0
01503	ALPHA, DISSOLVED	75.0	0.0
01505	ALPHA, SUSPENDED	150.0	0.0
03501	BETA, TOTAL	3500.0	0.0
03503	BETA, DISSOLVED	3000.0	0.0
03505	BETA, SUSPENDED	1500.0	0.0
09503	RADIUM 226, DISSOLVED	500.0	0.0
13501	STRONTIUM 90, TOTAL	500.0	0.0
22703	URANIUM, NATURAL, DISSOLVED	500.0	0.0
31501	COLIFORM, TOT,MEMBRANE FILTER,IMMED.M-ENDO MED, 35C	24000000.0	0.0
31502	COLIFORM, TOTAL, 10/ML	24000000.0	0.0
31503	COLIFORM, TOT,MEMBR FILTER, DELAYED,M-ENDO MED, 35C	24000000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
31504	COLIFORM, TOT,MEMBR FILTER,IMMED,LES ENDO AGAR, 35C	24000000.0	0.0
31613	FECAL COLIFORM, MEMBR FILTER, M-FC AGAR,44.5C, 24HR	10000000.0	0.0
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	10000000.0	0.0
31616	FECAL COLIFORM, MEMBR FILTER,M-FC BROTH, 44.5C	10000000.0	0.0
31672	FECAL STREPTOCOCCI,PLATE COUNT M-ENTER AGAR,35C48HR	500000.0	0.0
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	500000.0	0.0
31677	FECAL STREPTOCOCCI,MPN,AD-EVA, 35C (TUBE 31678)	500000.0	0.0
31679	FECAL STREPTOCOCCI, MF M-ENTEROCOCCUS AGAR,35C,48H	500000.0	0.0
31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	99999999.0	0.0
31751	PLATE COUNT, TOTAL, TPC AGAR, 35C, 24 HRS	99999999.0	0.0
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	500.0	0.0
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	750.0	0.0
32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	1000.0	0.0
32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	200.0	0.0
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	500.0	0.0
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	200.0	0.0
32219	PHEOPHYTIN RATIO(OD 663)SPECTRO,BEFORE/AFTER ACID	2.0	0.0
32221	CHLOROPHYLL A,% OF(PHEOPHYTIN A+CHL A),SPEC-ACID.	101.0	0.0
32230	CHLOROPHYLL A (MG/L)	0.5	0.0
32231	CHLOROPHYLL B (MG/L)	0.8	0.0
32232	CHLOROPHYLL C (MG/L)	0.2	0.0
32234	CHLOROPHYLL, TOTAL (A+B+C) (MG/L)	1.0	0.0
32270	CHLOROFORM EXTRACTABLES TOTAL IN MG PER LITER	5.0	0.0
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	1500.0	0.0
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	10.0	0.0
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39340	GAMMA-BHC(LINDANE),WHOLE WATER, (UG/L)	20.0	0.0
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER, (UG/L)	20.0	0.0
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
50060	CHLORINE, TOTAL RESIDUAL (MG/L)	5.0	0.0
60050	ALGAE, TOTAL (CELLS/ML)	700000.0	0.0
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	4000.0	0.0
70505	PHOSPHATE, TOTAL,COLORIMETRIC METHOD (MG/L AS P)	10.0	0.0
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10.0	0.0
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	65.0	0.0
71886	PHOSPHORUS, TOTAL, AS PO4 - (MG/L)	30.0	0.0
71890	MERCURY, DISSOLVED (UG/L AS HG)	10.0	0.0
71895	MERCURY, SUSPENDED (UG/L AS HG)	10.0	0.0
71900	MERCURY, TOTAL (UG/L AS HG)	10.0	0.0
74010	IRON, TOTAL (MG/L AS FE)	56000.0	0.0

Appendix D

STORET Administrative Parameters

STORET Code	Description of STORET Administrative Parameters
00022	LENGTH OF EXPOSURE OF SAMPLE OR TEST - DAYS
00026	TOXICS-IDENTIFY DATA COLLECTION BY EPA DIRECTIVE
00027	CODE NO FOR AGENCY COLLECTING SAMPLE
00028	CODE NO FOR AGENCY ANALYZING SAMPLE
00029	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION
00073	SAMPLE LOC CODE DEFINED BY THERMAL STRUCT & DEPTH
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI
00115	SAMPLE TREATMENT CODE (1=RAW,2=TREATED)
00116	INTENSIVE SURVEY IDENTIFICATION NUMBER
00145	TOTAL PRODUCTION OF PRODUCT MANUFACTURED TONS/DAY
01273	TOTAL ACID PRIORITY POLLUTANTS MG/L
01274	TOTAL BASE-NEUTRAL PRIORITY POLLUTANTS MG/L
01275	TOTAL VOLATILE PRIORITY POLLUTANTS MG/L
01365	ANALYSIS DATE (DIOXIN) (YYMMDD)
04177	SAMPLE STABILIZATION, RECOVERY TEST CODE
04178	FIELD PROTOCOL(CONFDNCE ASSIGNED FIELD SAMPLE) CODE
04179	SAMPLE STATION LOCKED CODE
04180	CONDITION OF STATION SITE CODE
04181	LABORATORY QA/QC PLAN CONFIDENCE CODE
04182	SAMPLE TYPE CODE
04183	SAMPLE REMARKS CODE
30333	BAG MESH SIZE, BEDLOAD SAMPLER, MM
34772	NPDES NUMBER, CROSS REFERENCE CODE
34785	GAGE TYPE, METHOD CODE

STORET Code	Description of STORET Administrative Parameters
45575	GC MAKE AND MODEL INFORMATION CODE
45576	GC DETECTOR TYPE CODE
45577	GC COLUMN TYPE CODE
45580	METHOD OF ANALYSIS CODE
45581	LABORATORY LOCATION CODE
46107	SAMPLE LOCATION CODE (TREATMENT PLANT OPERATION)
46390	TOXICITY CHARACTERISTIC LEACHING PROCEDURE P OR F
46396	PROCESS TO SIGNIFICANTLY REDUCE PATHOGENS YES OR NO
46397	PROCESS TO FURTHER REDUCE PATHOGENS YES OR NO
47001	PERMIT EXPIRATION DATE (JULIAN CALENDAR)
47044	OBSERVATIONS,WASTE SITE-SEVERITY OF PROBLEMS CODE
47460	SUBSAMPLE - DECIMAL FRACTION OF WHOLE NUMBER
47477	COMPOSITION AND/OR DISPOSITION OF CATCH NUM CODE
70231	CURRENT DIRECTION (DEGREES FROM DOWNSTREAM FLOW)
71999	SAMPLE PURPOSE CODE
72032	NUMBER OF SPILLWAY GATES OPEN
73672	DATE OF ANALYSIS YYMMDD
73673	DATE OF EXTRACTION YYMMDD
74031	GRANT, PROJECT COST ELIGIBLE FOR CONSTRUCTION
74032	GRANT, AMOUNT OF PL 660 GRANT FOR THIS PROJECT
74033	GRANT, FEDERAL, OTHER THAN PL 660 GRANT
74034	GRANT, FUTURE PL 660 WHICH MAY APPLY TO THIS PROJ
74035	GRANT, TOTAL FEDERAL, WHICH APPLIES TO THIS PROJ
74036	GRANT, PROJ NUMBER ASSIGNED TO THIS APPLICATION
74037	GRANT, TYPE OF PROJECT TO WHICH GRANT APPLIES
74038	GRANT, STATUS OF PROJECT TO WHICH GRANT APPLIES
74039	PCS/STORET WATER QUALITY FILE INTERFACE YR/MO/DAY
74040	SURVEY NUMBER YYMMNO
74041	STORET STORAGE TRANSACTION DATE YR/MO/DAY

STORET Code	Description of STORET Administrative Parameters
74050	RADIOACTIVITY, GENERAL (PERMIT)
74051	ALGICIDES, GENERAL (PERMIT)
74052	CHLORINATED HYDROCARBONS, GENERAL (PERMIT)
74053	PESTICIDES, GENERAL (PERMIT)
74056	COLIFORM, TOTAL, GENERAL (PERMIT)
74065	STREAM FLOW CLASS
74066	ANNUAL RUNOFF
74067	SOIL CLASSIFICATION
74068	WATER QUALITY DESIGNATED USE CLASSIFICATION (IA)
74100	PRIMARY 1972 SIC CODE
74101	SECONDARY 1972 SIC CODE
74102	SECONDARY 1972 SIC CODE
74103	SECONDARY 1972 SIC CODE
74200	SAMPLE PRESERVATION METHODS ONE OR MORE IN COMB.
74205	LAND RESOURCE AREA (IOWA)
74206	SOIL EROSION POTENTIAL (IOWA)
74209	WATER QUALITY INDEX - STATE OF ILLINOIS, EPA
74210	FOREST STREAM WATER QUALITY INDEX CALC. NUMBER
74990	FISH SPECIES NUMERIC CODE - F&W SERVICE
74995	ANATOMY CODE
75000	SPECIES CODE-REMARK=SEX (M=MALE,F=FEMALE,U=UNK.)
81028	WITHDRAWAL OF GROUNDWATER (MILLION GAL/DAY)
82258	WATER CLASSIFICATION CODE (1-9) CODE
82292	DATA RELAY GROUND STATION SOURCE NODE CODE, CODE
82309	CONTAMINATION SOURCE POSSIBLE CODES NUMERIC CODE
82310	DEPTH CONFIDENCE IN REPORTED VALUES NUMERIC CODES
82373	FREQUENCY OF SAMPLING M=MON,Q=QUAR,Y=YR,R=RNFFCODE
82519	DRILLER REGISTRATION NUMBER ALPHA-NUMERIC CODE
82562	NARRATIVE REQUIREMENT EXCEEDANCES INTEGER

STORET Code	Description of STORET Administrative Parameters
82576	DAILY EXCURSION TIME, WATER MIN
82577	MONTHLY EXCURSION TIME, WATER TOTAL MIN
82578	DAY/MAXIMUM EXCURSION TIME, WATER MIN
82579	CODE NUMBER FOR PERSON COLLECTING SAMPLE
84002	CODE, GENERAL INFORMATION - ALPHA, NUMERIC CODE
84003	WATER SHED ID NUMBER (IOWA)
84005	FISH SPECIES CODE-FISH & WILDLIFE SER
84006	OWNERSHIP CLASSIFICATION OF LAKE, ILLINOIS SYSTEM
84010	PUBLIC ACCESS TO LAKE ILLINOIS SYSTEM
84011	CONFIDENCE CODE FOR GLC CONFIRMATION CODE
84012	PATIENT PARAMETERS (AGE, SEX, WT, ETC.) CODE
84013	SAMPLE PARAMETERS D=DESIGN SPECIMEN, S=SURPLUS
84027	CODE NUMBER FOR AGENCY COLLECTING SAMPLE
84028	CODE NO FOR AGENCY ANALYZING SAMPLE
84029	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE FIELD
84033	EGD ANALYTICAL DATA COMPLETENESS Y=YES N=NO CODE
84034	EGD SMPL NO.(SMPL.IDENT) NUMERIC=SCS ALPH+4NUM=JRB
84035	EGD SAMPLE CLASSIFICATION CATEGORY ALPHA CODE
84036	EGD INDUSTRIAL CATEGORY NUMERIC CODE
84037	EGD INDUSTRIAL CATEGORY NAME ALPHA CODE
84038	EGD LABORATORY NUMERIC CODE
84039	EGD LABORATORY NAME ALPHA CODE
84040	EGD SAMPLE STATUS (1-5,9,AND BLANK) NUMERIC CODE
84041	EGD ACID STATUS (1-5,9,AND BLANK) NUMERIC CODE
84042	EGD BASE STATUS (1-5,9AND BLANK) NUMERIC CODE
84043	EGD PESTICIDE STATUS (1-5,9,AND BLANK) NUMERIC CODE
84044	EGD VOA FRACT. STATUS INDICATOR (1-5,9,BLANK) CODE
84045	EGD ACID EXTRACT DATE (YYMMDD) NUMERIC CODE
84046	EGD BASE EXTRACTION DATE (YYMMDD) NUMERIC CODE

STORET Code	Description of STORET Administrative Parameters
84047	EGD PESTICIDE EXTRACTION DATE (YYMMDD) NUMERIC CODE
84048	EGD VOA FRACTION INJECTION DATE YYMMDD NUMERIC CODE
84049	EGD ACID CONC. FACTOR (FIVE NUMERIC DIGITS) CODE
84050	EGD BASE CONC.FACTOR (FIVE NUMERIC DIGITS) CODE
84051	EGD PESTICIDE CONC.FACTOR (FIVE NUMERIC DIGITS) CODE
84052	EGD VOA FRACTION CONC. FACTOR (5 NUMERIC DIGITS) CODE
84053	SAMPLE TYPE AND FREQUENCY OF COLLECTION CODE
84054	LITHOLOGY ALPHA-NUMERIC CODE
84055	AVAILABLE LOGS ALPHA-NUMERIC CODE
84056	WATER USE CATEGORY ALPHA-NUMERIC CODE
84057	INSPECTION TYPE ALPHA-NUMERIC CODE
84058	HYDROGEOLOGIC SYSTEM ALPHA-NUMERIC CODE
84059	WELL OWNERSHIP ALPHA-NUMERIC CODE
84060	TOPOGRAPHY ALPHA-NUMERIC CODE
84061	WELL USE ALPHA-NUMERIC CODE
84062	MEASURING POINT DESCRIPTION ALPHA-NUMERIC CODE
84063	DRILLING METHOD ALPHA-NUMERIC CODE
84064	WELL DATA AVAILABILITY ALPHA-NUMERIC CODE
84065	PERMIT COMPLIANCE DATA ALPHA-NUMERIC CODE
84067	NATURE OF MONITORING ALPHA-NUMERIC CODE
84073	REPLACES EXISTING WELL ALPHA-NUMERIC CODE
84074	AQUIFER TYPE (SEE USGS HANDBOOK) ALPHA CODE
84075	WELL PERMIT NUMBER ALPHA-NUMERIC CODE
84076	TSD MONITORING WELL TYPE ALPHA CODE
84077	TSD MONITORING WELL SAMPLING METHOD ALPHA CODE
84083	POLLUTION VERIFICATION ALPHA CODE
84084	WELL SAMPLE PURPOSE ALPHA CODE
84090	SAMPLE FILE CONTROL PROJECT IDENTIFICATION A-CODE
84091	INFILTRATION DATE/BEGINNING 'YYMMDD'

STORET Code	Description of STORET Administrative Parameters
84092	INFILTRATION DATE/ENDING 'YYMMDD'
84093	ENFORCEMENT FORM #2-C,DATA IDENTIFICATION CODE
84102	SAMPLE SPECIES-SUB ID ALPHA CODE
84103	DIOXIN LABORATORY ALPHA CODE
84104	DIOXIN STUDY ALPHA CODE
84112	SOURCE OF GEOHYDROLOGIC DATA CODE
84119	SOURCE OF EVACUATION DATA CODE
84121	REGULATING AGENCY CODE
84122	SAMPLE PURPOSE CODE
84126	SOURCE OF DEPTH DATA CODE
84127	METHOD OF DEPTH MEASUREMENT CODE
84128	SOURCE OF WATER-LEVEL DATA CODE
84129	DATA QUALITY
84141	LAKE, PHYSICAL CONDITION AT SAMPLE TIME, 1-5, CODE
84142	LAKE,RECREATIONAL SUITABILITY @ SMPL TIME,1-5, CODE
84164	SAMPLER TYPE, CODE
85300	PROBLEM CODE NES SURVEY
85327	WATER LEVEL AT SAMPLE COLLECTION TIME-CODE-NES
85332	CLOUD COVER AT SAMPLE COLLECTION TIME-CODE-NES
85553	WELL COMPLETION DATE (MONTH/YEAR)
85554	WELL WORKOVER DATE, LATEST (MONTH/YEAR)

Appendix E

STORET Parameters Not Suitable for Statistical Analysis

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
00001	X-SEC. LOC., HORIZ (FT. FROM R BANK LOOK UPSTR.)
00002	X-SEC. LOC., HORIZ (% FROM R BANK LOOK UPSTR.)
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)
00005	X-SEC. LOC., VERTICAL (PERCENT OF TOTAL DEPTH)
00006	DISTANCE FROM LOCATION IN X MILES
00007	DISTANCE FROM LOCATION IN Y MILES
00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE
00009	X-SEC. LOC.(FT FROM LEFT BANK LOOKING DOWNSTRM)
00027	CODE NO FOR AGENCY COLLECTING SAMPLE
00028	CODE NO FOR AGENCY ANALYZING SAMPLE
00033	WEATHER CODE FOR OCEAN-OBSERV. (WMO CODE 4677)
00037	WIND FORCE (BEAUFORT UNITS)
00038	WIND DIRECTION (WMO CODES 0885 + 0887)
00041	WEATHER (WMO CODE 4501)
00042	ALTITUDE IN FEET ABOVE MEAN SEA LEVEL
00043	CLOUD TYPE (WMO CODE 0500)
00044	CLOUD AMOUNT (WMO CODE 2700)
00047	TOTAL PARTIAL PRESSURE DISSOLVED GASES (MM HG)
00048	TOTAL PARTIAL PRESSURE DISSOLVED GASES (% SAT)
00049	SURFACE AREA IN SQUARE MILES
00050	EVAPORATION, TOTAL (INCHES PER DAY)
00051	SURFACE AREA IN SQUARE FEET
00053	SURFACE AREA, ACRES
00054	RESERVOIR STORAGE - ACRE FEET
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION
00067	TIDE STAGE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
00069	SEA WAVES(0=NONE;1=0-3";2=4-20";3=21-48";4=4-8')
00097	SAMPLING STATION LOCATION, VERTICAL (FEET)
00098	SAMPLING STATION LOCATION, VERTICAL (METERS)
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI
00115	SAMPLE TREATMENT CODE (1=RAW,2=TREATED)
01300	OIL-GREASE (SEVERITY)
01305	DETERGENT SUDS (SEVERITY)
01310	GAS BUBBLES (SEVERITY)
01315	SLUDGE, FLOATING (SEVERITY)
01320	GARBAGE, FLOATING (SEVERITY)
01325	ALGAE, FLOATING MATS (SEVERITY)
01330	ODOR, ATMOSPHERIC (SEVERITY)
01331	TASTE (SEVERITY)
01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)
01340	FISH, DEAD (SEVERITY)
01345	DEBRIS, FLOATING (SEVERITY)
01350	TURBIDITY (SEVERITY)
01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE
01355	ICE COVER, FLOATING OR SOLID (SEVERITY)
03595	BIOASSAY (96 HR), EFFLUENT, TOTAL CODE
03596	BIOASSAY (48 HR), EFFLUENT, TOTAL CODE
03597	BIOASSAY (24 HR), EFFLUENT, TOTAL CODE
03598	TOXICITY, EFFLUENT, TOTAL CODE
03599	TOXICITY, CHOICE OF SPECIES, EFFLUENT CODE
03600	TOXICITY, TROUT, EFFLUENT, TOTAL CODE
03601	TOXICITY, SAND DOLLAR, EFFLUENT CODE
03602	BIOCHEMICAL OXYGEN DEMAND, EFFLUENT, TOTAL CODE
03603	SOLIDS, TOTAL SUSPENDABLE, EFFLUENT, TOTAL CODE
03605	FLOW METER CALIBRATION, WATER CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
03717	ONCORHYNCHUS MYKISS, WATER CODE
04117	TETHER LINE USED FOR COLLECTING SAMPLE CODE
04160	HALOCARBONS, PURGEABLE, SCAN, EFFLUENT CODE
04161	HALOCARBONS, PURGEABLE, SCAN, SLUDGE CODE
04162	AROMATIC, PURGEABLE, SCAN, EFFLUENT CODE
04163	AROMATIC, PURGEABLE, SCAN, SLUDGE CODE
04164	PHENOLIC, TOTAL, SCAN, EFFLUENT CODE
04165	PHENOLIC, TOTAL, SCAN, SLUDGE CODE
04166	PCB, TOTAL, SCAN, EFFLUENT CODE
04167	PCB, TOTAL, SCAN, SLUDGE CODE
04174	FREE LIQUIDS IN SEWAGE SLUDGE CODE
34765	AVIAN NUMERICAL SPECIES CODE (BIRDS)
34766	MAMMALIAN NUMERICAL SPECIES CODE
34771	MACROPHYTE, INSTREAM, VISUAL SIGHTING CODE
34773	ODOR, AMBIENT WATER CODE
34774	FISH, INSTREAM, VISUAL SIGHTING CODE
34775	STREAMBANK CHANNEL ALTERATIONS CODE
34776	HYDRAULIC STRUCTURES, INSTREAM CODE
34780	LAND USE, ADJACENT STREAM CODE
34781	SAMPLE POINTS, # OF LONGTDNL TRANSECTS, REACH CODE
34782	STREAM STAGE TREND CODE
34789	HABITATS, TYPES SAMPLED CODE
45613	FLOATING SOLIDS/VISIBLE FOAM, VISUAL, YES=1, NO=0, CODE
45614	SANITARY WASTE DISCHARGE ASSESSMENT, YES=1, NO=0, CODE
45615	INTERMITTENT DISCHARGE ASSESSMENT, YES=1, NO=0,CODE
46001	WATER APPEARANCE CODE (BASED ON FIELD ASSESSMENT)
46478	EQUIPMENT INSPECTION, VISUAL CODE
46486	TOXICITY,ACUTE 24HR(STATIC)CERIODAPHNIA (P/F) CODE
47454	FLOW METER REVOLUTIONS NUMBER

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
47455	LATITUDE, STARTING, OF A SAMPLE TOW DDMMSS
47456	LONGITUDE, STARTING, OF A SAMPLE TOW DDDMMSS
47457	LATITUDE, FINISHING, OF A SAMPLE TOW DDMMSS
47458	LONGITUDE, FINISHING, OF A SAMPLE TOW DDDMMSS
47459	LENGTH FREQUENCY NUMBER
47461	TIME THAT THE EQUIPMENT WAS SAMPLING MINUTES
47476	DIRECTION OF TOW IN RELATION TO CURRENT NUM CODE
50044	HYDROGRAPH LIMB, 1BASE, 2RISING, 3PEAK, 4FALLING, CODE
61390	DIATOMS,FIRST DOMINANT SPECIES OF UNITS - CODE
61391	DIATOMS,SECOND DOMINANT SPECIES OF UNITS - CODE
61392	DIATOMS,THIRD DOMINANT SPECIES OF UNITS - CODE
61393	DIATOMS,FOURTH DOMINANT SPECIES OF UNITS - CODE
70220	WAVE DIRECTION (WMO CODES 0885 + 0887)
70222	WAVE HEIGHT (WMO CODE 1555)
70223	WAVE PERIOD (WMO CODE 3155)
71090	BIVALVE SPECIES CODE
71500	EQUITABILITY INDEX,BENTHIC MACROINVER CODE
72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)
72001	DEPTH, TOTAL OF HOLE (FT BELOW LAND SURFACE DATUM)
72002	DEPTH TO TOP OF WATER-BEARING ZONE SAMPLED (FT)
72003	DEPTH TO BOTTOM OF WATER-BEARING ZONE SAMPLED (FT)
72004	PUMP OR FLOW PERIOD PRIOR TO SAMPLING MINUTES
72005	SAMPLE SOURCE CODE (BM WELL DATA)
72006	SAMPLING CONDITION CODE (BM WELL DATA)
72007	FORMATION NAME CODE (BM WELL DATA)
72017	SERIES CODE (BM WELL DATA)
72018	SYSTEM CODE (BM WELL DATA)
72111	DIRECT READOUT GROUND STATN TRANSMIT EROR CODE NUM
74054	FECAL STREPTOCOCCI, GENERAL (PERMIT)

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
74055	FECAL COLIFORM, GENERAL (PERMIT)
80889	ACTIVATED SLUDGE PROCESS MODIFICATION CODE
81024	DRAINAGE AREA IN SQUARE MILES (SQ. MI.)
81637	SHELLFISH SPECIES NUMERIC CODE
82289	LAGOON OBSERVATION, VISUAL, Y=YES N=NO CODE
82398	SAMPLING METHOD (CODES)
82524	STORAGE COEFFICIENT NUMERICAL CODE
82923	ATMOSPHERIC DEPOSITION TYPE, WET CODE
83205	ATMOSPHERIC DEPOSITION TYPE, BULK CODE
84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)
84001	AQUIFER NAME CODE (SEE USGS CATALOG)
84004	LAKE TYPE ILLINOIS CLASSIFICATION SYSTEM
84007	ANATOMY ALPHA CODE
84008	LIFE STYLE/HABITAT OF THE INDIVIDUALS IN THE SAMPLE
84009	SHELLFISH SPECIES ALPHANUMERIC CODE
84014	SPECIES SEX CODE
84030	CLOUD AMOUNT ALPHA WEATHER CODES
84031	PHYSICAL WEATHER ALPHA WEATHER CODES
84032	STREAM CONDITION ALPHA WEATHER CODES
84066	OIL AND GREASE, VISUAL, ALPHA-NUMERIC CODE
84068	SERIES CODE ALPHA-NUMERIC CODE
84069	FORMATION CODE ALPHA-NUMERIC CODE
84070	METHOD OF TESTING WELL YIELD ALPHA-NUMERIC CODE
84071	WATER LEVEL MEASUREMENT CONDITIONS ALPHA-NUM CODE
84072	WATER LEVEL MEASUREMENT METHOD ALPHA-NUMERIC CODE
84078	GIARDIA LAMBLIA, 2HSO4 OR SUC GRAD, MICRO, CODE
84079	BACTERIA, CELLUOLYTIC, AEROBIC-ANAEROBIC, RT 5-7, CODE
84080	BACTERIA, HYDROCARBONOCLASTIC, SHAKE INC 32C/WK, CODE
84081	YERSINIA ENTEROCOLITICA, SB BROTH, MAC AGAR,22C, CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
84082	SALMONELLA/SHIGELLA, QUANT OR QUAL, HVF OR SWAB, CODE
84085	ORGANICS, VOLATILE, DETECTED, NUMERIC CODE, CODE
84086	MACROINVERTEBRATE SPECIES NUMERIC CODE
84087	MACROINVERTEBRATE HABITAT CODE
84088	BIOLOGY 1 MACROINVERTEBRATE CODE
84089	BIOLOGY 2 MACROINVERTEBRATE CODE
84094	PHYTOPLANKTON SPECIES CODE, NUMERIC
84095	PHYTOPLANKTON SPECIES CODE, ALPHA
84096	SEVERITY OF NON-PLANKTON ALGAE-MAT COVERAGE CODE
84097	LAGOON MOUTH CONDITION CODE
84098	COLOR OF NON-PLANKTONIC ALGAE CODE
84099	WATER - RELATIVE WATER LEVEL CODE
84100	SEX(1-MALE,2-FEMALE,3-MIXED,4-UNKNOWN) NUM CODE
84101	METAFORM, BENTHIC, ADULT(A), PUPAE(P), LARVAE(L) CODE
84105	OIL-SEPARATOR OBSERVATION ASSESS (0=DID NOT,1=DID)
84106	EVAPORAT/BED OBS ASSESS (0=DID NOT LOOK, 1=DID LOOK)
84107	AREA INSPECTION, VISUAL (0=DID NOT, 1=DID) CODE
84108	DRAIN FIELD INSPECTION ASSESS (0=DID NOT, 1=DID) CODE
84109	SLUDGE BUILD-UP IN WATER (0=DID NOT OBS, 1=OBS) CODE
84110	POND OBSERVATION ASSESS WATER (0=DID NOT, 1=DID) CODE
84111	LITHOLOGIC MODIFIER CODE
84113	WELL INTAKE FINISH CODE
84114	WELL CASING MATERIAL CODE
84115	TYPE OF MATERIAL FROM WHICH OPENING IS MADE CODE
84116	DRILLING FLUID CODE
84117	TYPE OF SURFACE SEAL CODE
84118	METHOD OF DEVELOPMENT CODE
84120	PACKING MATERIAL CODE
84124	METHOD OF EVACUTAION CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
84125	METHOD OF WATER-LEVEL MEASUREMENT CODE
84130	OUTFALL OBSERVATION, VISUAL, Y=YES N=NO CODE
84131	SAMPLING METHOD, CONFIDENCE CODE (A,B,C,D) CODE
84132	STREAMBANK, VEGETATIVE STABILITY RATING CODE
84133	STREAMBANK, STABILITY (BANK EROSION) RATING CODE
84134	PARTICLES, DEGREE SURROUNDED BY FINE SEDIMENT, CODE
84135	STREAMSIDE, (SHORELINE) COVER RATING CODE
84136	CANOPY TYPE CODE
84137	CHANNEL STABILITY RATING CODE (E,G,F,P) CODE
84138	COLIFORM, TOTAL, WATER, WHOLE, MPN, PRES=1, ABSNT=2, CODE
84139	ENTEROBACTER AGGLOMERANS, WTR, MF, PRES=1, ABSNT=2, CODE
84140	KLEBSIELLA PNEUMONIAE, WTR, WH, MF, PRES=1, ABSNT=2, CODE
84143	WELL, PURGING CONDITION CODE
84144	WELL, SELECTION CRITERIA CODE
84145	PROJECT COMPONENT CODE
84146	LAND USE, PREDOMINANT, WITHIN 100 FT OF WELL, CODE
84147	LAND USE, PREDOMINANT, 1/4 MI.RADIUS OF WELL, CODE
84148	LAND USE, PREDMNT., FRAC., WITHIN 1/4 MI OF WELL, CODE
84149	LAND USE, CHANGE, LAST 10 YRS, WITHIN 1/4MI WELL, CODE
84150	HABITAT QUALITY INDEX RATING CODE
84151	AQUATIC LIFE, USE CLASSES CODE
84152	STREAM, STAGE CLASS CODE
84153	STREAMBANKS, GRAZING DAMAGE CODE
84154	CHANNEL, MAJOR ALTERATIONS CODE
84155	RIFFLE/RUNS, OCCURRENCE CODE
84156	POOL, DESCRIPTION CODE
84157	SANDBARS, LARGE, OCCURRENCE CODE
84158	LAND USE, NEAR STREAM, PREDOMINANT CODE
84159	STREAM,COVER (INSTREAM SHELTER FOR ADULT FISH), CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
84160	STREAM, DEGRADATION RATING CODE
84161	STREAM, ORDER CODE
84162	LAND RESOURCE AREA CODE
84163	FLOW, STREAM, CLASSIFICATION CODE
84165	DISCHARGE EVENT OBSERVATION, YES=1 NO=0, CODE
84166	STORM HYDROGRAPH, DIRECTION, (RISE,FALL), CODE
84167	MICROSCOPIC EXAMINATION CODE
84168	AVIAN SPECIES ALPHA CODE (BIRDS)
84169	MAMMALIAN ALPHA SPECIES CODE
84170	ALPHA AGE TEXT CODE
84200	LATITUDE/LONGITUDE COORDINATES OF WELL, METHOD CODE
84201	NATIONAL REFERENCE DATUM, ALTITUDE(VERTICAL) CODE
84202	ALTITUDE METHOD CODE
85000	STREAM MILE, ACTUAL MILES
85014	HABITAT, 1970 ACRES THIS TYPE FOR THIS STATION
85015	HAB., ESTIMATED ACRES THIS TYPE THIS STATION
85016	HAB., ESTIMATED ACRES THIS TYPE THIS STA. BY 1990
85017	HAB., ESTIMATED ACRES THIS TYPE THIS STA. BY 2000
85018	TYPE CODES: 1=CLEAR CUT/2=SELECT CUT/3=RNGE DEVLP
85019	ACRES, NO. ALTERED FROM 1965-1970 (0-5 YEARS OLD)
85020	ACRES, NO. ALTERED 1960-1965 (5-10 YEARS OLD)
85021	ACRES, NO. ALTERED 1955-1960 (10-15 YEARS OLD)
85022	ACRES, NO. ALTERED 1950-1955 (15-20 YEARS OLD)
85023	ACRES, NO. ALTERED BEFORE 1950 (20+ YEARS OLD)
85024	ACRES,PREDICTED YRLY.AVE.TO BE ALTERED IN FUTURE
85025	LANDOWNERS, CODES FOR ALL IN STATE OF OREGON
85026	ACRES, CURRENT OWNED THIS LANDOWNER THIS STATION
85027	ACRES, ESTIMATED OWNED BY L-O THIS STA. BY 1980
85028	ACRES, ESTIMATED OWNED BY L-O THIS STA. BY 1990

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85029	ACRES, ESTIMATED OWNED BY L-O THIS STA. BY 2000
85030	LAND USES, CODES FOR ALL IN STATE OF OREGON
85031	ACRES, CURRENT DEDICATED TO THIS USE THIS STATION
85032	ACRES, ESTM. DEDICTD TO THIS USE THIS STA BY 1980
85033	ACRES, ESTM. DEDICTD TO THIS USE THIS STA BY 1990
85034	ACRES, ESTM. DEDICTD TO THIS USE BY YR.2000 --STA.
85035	HAB., INDICATED ANIMAL USES THIS TYPE IN WINTER
85036	HAB., INDICATED ANIMAL USES THIS TYPE IN SPRING
85037	HAB., INDICATED ANIMAL USES THIS TYPE IN SUMMER
85038	HAB., INDICATED ANIMAL USES THIS TYPE IN FALL
85039	HAB., INDICATED ANML USES THIS TYPE FOR WINTERING
85040	HAB., INDICATED ANML USES THIS TYPE FOR FEEDING
85041	HAB., INDICATED ANML USES TYPE FOR REARING YOUNG
85042	HAB., INDICATED BIRD USES THIS TYPE FOR NESTING
85043	HAB., INDICATED ANML USES THIS TYPE FOR SHELTER
85044	HAB., INDICATED ANML USES THIS TYPE FOR REST AREA
85045	ANML, SHOWS PRESENCE/ABSNC OF COMMENTS ON THIS ANML
85046	HAB.,ACRES OCCUPIED BY THIS ANML THIS UNIT & CO.
85050	ANIMALS ARE NOT PRESENT THIS STATION
85051	ANIMALS, ONLY A FEW ARE PRESENT THIS STATION
85052	ANIMALS COMMONLY SEEN; USE MODERATE THIS STATION
85053	ANIMALS FREQUENTLY SEEN; USE HEAVY THIS STATION
85070	OWNERSHIP (.1) AND ACCESS (.2) BY YEAR
85071	PRIVATE OWNERSHIP AND ACCESS MILEAGE
85072	FEDERAL OWNERSHIP AND ACCESS MILEAGE
85073	STATE OWNERSHIP AND ACCESS MILEAGE
85074	COUNTY OWNERSHIP AND ACCESS MILEAGE
85075	CITY OWNERSHIP AND ACCESS MILEAGE
85076	WATER YEAR DATA REFERS TO

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85077	CALENDAR YEAR DATA REFERS TO
85088	MONTHS POLLUTION IS A PROBLEM JAN THRU JUNE
85089	MONTHS POLLUTION IS A PROBLEM JULY TO DECEMBER
85090	MAN-CAUSED CHANNEL CHANGE IN MILES
85091	STREAM BANK HABITAT DESTROYED IN MILES
85092	STREAMBED SILTED IN MILES
85093	TURBIDITY PROBLEM IN MILES
85094	SEVERITY: 1=ELIMINATES 2=INTERFERES 3=NO PROBLEM
85095	DURATION OF TURBIDITY PROBLEM IN MONTHS
85096	SEASON OF NATURAL DRY CHANNEL 1=SP 2=SU 3=F 4=W
85097	NATURAL DRY CHANNEL IN MILES
85098	MAN-CAUSED DRY CHANNEL SEASON 1=SP 2=SU 3=F 4=W
85099	MAN-CAUSED DRY CHANNEL IN MILES
85100	YEAR BARRIER IS PRESENT
85101	NUMBER OF NATURAL BARRIERS
85102	MILES BLOCKED BY NATURAL BARRIERS
85103	NUMBER OF NATURAL BARRIERS TO BE REMOVED
85104	NUMBER OF DAMS AND MAN CAUSED OBSTRUCTIONS
85105	MILES BLOCKED BY DAMS OR MAN CAUSED OBSTRUCTIONS
85106	NUMBER OF DAMS TO BE ALTERED
85107	MILES OF STREAM OCCUPIED BY IMPOUNDMENT
85108	LOWER END OF SECTION COVERED BY THIS FORM
85109	UPPER END OF SECTION COVERED BY THIS FORM
85110	LOWER LIMIT THIS SPECIES THIS FORM BY RIVER MILE
85111	UPPER LIMIT THIS SPECIES THIS FORM BY RIVER MILE
85112	STREAM SURVEY:1=COMPLETE 2=INCOMPLETE 3=NONE
85113	ABUNDANCE: 1=FSHWY/TAG&R 2=SURVEY 3=EST PLUS 4=EST
85114	ABUNDANCE: N=S&ST 1=ABUNDANT 4=SCARCE RGH FSH 3=SCARCE
85116	SQUARE YARDS OF SPAWNING AREA IN 1970

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85117	SQUARE YARDS OF SPAWNING AREA IN 1980
85118	SQUARE YARDS OF SPAWNING AREA IN 1990
85119	SQUARE YARDS OF SPAWNING AREA IN 2000
85120	MILES OF REARING AREA IN 1970
85121	MILES OF REARING AREA IN 1980
85122	MILES OF REARING AREA IN 1990
85123	MILES OF REARING AREA IN 2000
85124	CATCH BY SPORT ANGLING IN 1970
85125	RECREATION DAYS SPENT ANGLING IN 1970
85126	RECREATION DAYS SPENT ANGLING IN 1980
85127	RECREATION DAYS SPENT ANGLING IN 1990
85128	RECREATION DAYS SPENT ANGLING IN 2000
85129	CONTRIBUTION TO COMMERCIAL CATCH IN 1970
85130	PERCENT OF TOTAL FISHING DONE FROM BOAT IN 1970
85131	PERCENT OF TOTAL FISHING DONE FROM BANK IN 1970
85132	PERCENT OF TOTAL FISHING DONE WITH LURE IN 1970
85133	PERCENT OF TOTAL FISHING DONE WITH BAIT IN 1970
85134	PERCENT OF TOTAL FISHING DONE WITH A FLY IN 1970
85146	YEAR THIS FACTOR HAS A LIMITING EFFECT
85157	MAN DAYS OF WATER SKIING
85158	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NO ACTIVITY
85159	MAN DAYS OF BOATING OTHER THAN ANGLING
85160	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NO ACTIVITY
85161	MAN DAYS OF SWIMMING
85162	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NO ACTIVITY
85163	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NOT PRESENT
85165	NUMBER OF MONTHS SUSPENDED SOLIDS ARE A PROBLEM
85167	NUMBER OF MONTHS PLANKTON IS A PROBLEM
85168	1=ELIMINATE PROD 2=REDUCE 3=NO INTER. 4=NOT PRES

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85169	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85170	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85171	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85172	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85173	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85174	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85175	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85176	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85177	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85178	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85179	YEAR THIS NUMBER OF FACILITIES PRESENT
85180	NUMBER OF BOAT RAMPS
85181	NUMBER OF MOORAGES
85182	NUMBER OF PICNIC AREAS
85183	NUMBER OF CAMP AREAS
85184	NUMBER OF RESORTS
85185	YEAR THIS ZONED AREA PRESENT
85186	ACRES SET ASIDE FOR OTHER BOATING
85187	ACRES SET ASIDE FOR WATER SKIING
85188	MILES OF SHORE LOST TO ACCESS BY HOME SITES
85189	TOTAL MILES OF SHORELINE
85193	WILL RECR BE INC BY RELEASE OF FINGERL 0=NO 1=YES
85195	CATCH AND RECREATION ESTIMATE 1=BEST 4=POOREST
85333	PRECIPITATION-SAMPLE COLLECTION TIME-CODE- NES
85538	GAMMA SCAN DATE (YR,MO,DAY)
85539	DATE OF REPORT (YR,MO,DAY)
85658	TIME NIGHT CO2 HR
85661	TIME, INTERVAL DAY CO2 HR

Appendix F

National EPA Water Quality Criteria Summary[1]

The following table presents the national water quality criteria that were used to assess water quality data on a station-by-station basis and within the entire study area. Criteria are, for the most part, maximum values (except for dissolved oxygen, pH, and as noted). Criteria exist in any of four categories: Fresh Acute, Drinking Water, Marine Acute, and Other. Acute criteria are the highest 1-hour average concentrations which should not result in unacceptable impacts to aquatic organisms in either fresh or marine waters, respectively. The Drinking Water criteria are intended for human consumption; while the Other criteria represents National Park Service or other concerns. Parameters are listed in ascending order by STORET code. It is important to note that similar parameters often have non-consecutive codes. Consequently, scanning the entire list is necessary to obtain the criteria for all parameters of a particular type (eg. lead, copper, etc.). Refer to the Parameter Period of Record Tabulation to obtain the STORET code for any parameter measured in the park.

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
	00070				50[t]	TURBIDITY, JACKSON CANDLE UNITS	JTU	Physical
	00076				50[t]	TURBIDITY, HACH TURBIDIMETER, FORMAZIN TUR. UNITS	FTU	Physical
14808798	00154		250[s]			SULFATE (AS S) WHOLE WATER	MG/L	General Inorganic
7782447	00299				4.0[u]	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	MG/L	Dissolved Oxygen
7782447	00300				4.0[u]	OXYGEN, DISSOLVED	MG/L	Dissolved Oxygen
	00400				≤6.5, ≥9.0[#]	PH	SU	Physical
	00403				≤6.5, ≥9.0[#]	PH, LAB	SU	Physical
	00406				≤6.5, ≥9.0[#]	PH, FIELD	SU	Physical

[1]Sources: (1) U.S. Environmental Protection Agency, Quality Criteria for Water 1995, Final Draft; (2) U.S. Environmental Protection Agency, 40 CFR 141 - National Primary Drinking Water Regulations, and 40 CFR 143 - National Secondary Drinking Water Regulations, July 1, 1994; and (3) Others as Noted in Footnotes.

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
471341	00409				<200[=]	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYSIS	UEQ/L	General Inorganic
17778880	00613		1			NITRITE NITROGEN, DISSOLVED AS N	MG/L	Nitrogen
17778880	00615		1			NITRITE NITROGEN, TOTAL AS N	MG/L	Nitrogen
17778880	00618		10			NITRATE NITROGEN, DISSOLVED AS N	MG/L	Nitrogen
17778880	00620		10			NITRATE NITROGEN, TOTAL AS N	MG/L	Nitrogen
17778880	00628		10			NITRITE + NITRATE, SUSPENDED AS N	MG/L	Nitrogen
17778880	00630		10			NITRITE PLUS NITRATE, TOTAL 1 DET.	MG/L	Nitrogen
17778880	00631		10			NITRITE PLUS NITRATE, DISSOLVED 1 DET.	MG/L	Nitrogen
57125	00718	22	200	1.0		CYANIDE, WEAK ACID, DISSOCIABLE, WATER, WHOLE	UG/L	General Inorganic
57125	00719	22	200	1.0		CYANIDE, FREE,IN WATER&WASTEWATERS, HBG METHOD	UG/L	General Inorganic
57125	00720	0.022	0.2	0.001		CYANIDE, TOTAL	MG/L	General Inorganic
57125	00722	0.022	0.2	0.001		CYANIDE, FREE (AMENABLE TO CHLORINATION)	MG/L	General Inorganic
57125	00723	22	200	1.0		CYANIDE, DISSOLVED STD METHOD	UG/L	General Inorganic
57125	00724	22	200	1.0		CYANIDE COMPLEXED TO A RANGE OF COMPNDS, WATER	UG/L	General Inorganic
16887006	00940	860	250[s]			CHLORIDE,TOTAL IN WATER	MG/L	General Inorganic
16887006	00941	860	250[s]			CHLORIDE, DISSOLVED IN WATER	MG/L	General Inorganic
14808798	00945		250[s]			SULFATE, TOTAL (AS SO4)	MG/L	General Inorganic
14808798	00946		250[s]			SULFATE, DISSOLVED (AS SO4)	MG/L	General Inorganic
1332214	00948		7000000			ASBESTOS, WHOLE SAMPLE	CNT/L	General Inorganic
16984488	00950		4.0			FLUORIDE, DISSOLVED AS F	MG/L	General Inorganic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
16984488	00951		4.0			FLUORIDE, TOTAL AS F	MG/L	General Inorganic
7782414	00953		4000			FLUORINE, TOTAL	UG/L	General Inorganic
7440382	00978	360	50	69		ARSENIC, TOTAL RECOVERABLE IN WATER AS AS	UG/L	Metal
7782492	00981	20	50	300		SELENIUM,TOTAL RECOVERABLE IN WATER AS SE	UG/L	Metal
7440280	00982	1400*	2.0	2130*		THALLIUM, TOTAL RECOVERABLE IN WATER AS TL	UG/L	Metal
7782492	00990	20	50	300		SELENITE, TOTAL RECOVERABLE INORGANIC	UG/L	Metal
7440382	00991	360	50	69		ARSENIC, TOTAL RECOVERABLE TRIVALENT INORGANIC	UG/L	Metal
7440382	00995	360	50	69		ARSENIC, INORGANIC DISS	UG/L	Metal
7440382	00996	360	50	69		ARSENIC, INORGANIC SUSP	UG/L	Metal
7440382	00997	360	50	69		ARSENIC, INORGANIC TOT	UG/L	Metal
7440417	00998	130*	4.0			BERYLLIUM,TOTAL RECOVERABLE IN WATER AS BE	UG/L	Metal
7440382	01000	360	50	69		ARSENIC, DISSOLVED	UG/L	Metal
7440382	01001	360	50	69		ARSENIC, SUSPENDED	UG/L	Metal
7440382	01002	360	50	69		ARSENIC, TOTAL	UG/L	Metal
7440393	01005		2000			BARIUM, DISSOLVED	UG/L	Metal
7440393	01006		2000			BARIUM, SUSPENDED	UG/L	Metal
7440393	01007		2000			BARIUM, TOTAL	UG/L	Metal
7440393	01009		2000			BARIUM,TOTAL RECOVERABLE IN WATER AS BA	UG/L	Metal
7440417	01010	130*	4.0			BERYLLIUM, DISSOLVED	UG/L	Metal
7440417	01011	130*	4.0			BERYLLIUM, SUSPENDED	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440417	01012	130*	4.0			BERYLLIUM, TOTAL	UG/L	Metal
7440439	01025	3.9+	5.0	43		CADMIUM, DISSOLVED	UG/L	Metal
7440439	01026	3.9+	5.0	43		CADMIUM, SUSPENDED	UG/L	Metal
7440439	01027	3.9+	5.0	43		CADMIUM, TOTAL	UG/L	Metal
7440473	01030		100			CHROMIUM, DISSOLVED	UG/L	Metal
7440473	01031		100			CHROMIUM, SUSPENDED	UG/L	Metal
7440473	01032	16	100	1100		CHROMIUM, HEXAVALENT	UG/L	Metal
16065831	01033	1700+	100	10300*		CHROMIUM, TRI-VAL	UG/L	Metal
7440473	01034		100			CHROMIUM, TOTAL	UG/L	Metal
7440508	01040	18+	1300a	2.9		COPPER, DISSOLVED	UG/L	Metal
7440508	01041	18+	1300a	2.9		COPPER, SUSPENDED	UG/L	Metal
7440508	01042	18+	1300a	2.9		COPPER, TOTAL	UG/L	Metal
7439921	01049	82+	15a	220		LEAD, DISSOLVED	UG/L	Metal
7439921	01050	82+	15a	220		LEAD, SUSPENDED	UG/L	Metal
7439921	01051	82+	15a	220		LEAD, TOTAL	UG/L	Metal
7440280	01057	1400*	2.0	2130*		THALLIUM, DISSOLVED	UG/L	Metal
7440280	01058	1400*	2.0	2130*		THALLIUM, SUSPENDED	UG/L	Metal
7440280	01059	1400*	2.0	2130*		THALLIUM, TOTAL	UG/L	Metal
7440020	01065	1400+	100	75		NICKEL, DISSOLVED	UG/L	Metal
7440020	01066	1400+	100	75		NICKEL, SUSPENDED	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440020	01067	1400[+]	100	75		NICKEL, TOTAL	UG/L	Metal
7440020	01074	1400[+]	100	75		NICKEL, TOTAL RECOVERABLE IN WATER AS NI	UG/L	Metal
7440224	01075	4.1[+]	100[s]	0.12		SILVER, DISSOLVED	UG/L	Metal
7440224	01076	4.1[+]	100[s]	0.12		SILVER, SUSPENDED	UG/L	Metal
7440224	01077	4.1[+]	100[s]	0.12		SILVER, TOTAL	UG/L	Metal
7440224	01079	4.1[+]	100[s]	0.12		SILVER, TOTAL RECOVERABLE IN WATER AS AG	UG/L	Metal
7440508	01089	0.018[+]	1.3[a]	0.0029		COPPER AS SUSPENDED BLACK OXIDE IN WATER	MG/L	General Inorganic
7440666	01090	120[+]	5000[s]	95		ZINC, DISSOLVED	UG/L	Metal
7440666	01091	120[+]	5000[s]	95		ZINC, SUSPENDED	UG/L	Metal
7440666	01092	120[+]	5000[s]	95		ZINC, TOTAL	UG/L	Metal
7440666	01094	120[+]	5000[s]	95		ZINC, TOTAL RECOVERABLE IN WATER AS ZN	UG/L	Metal
7440360	01095	88[p]	6.0	1500[p]		ANTIMONY, DISSOLVED	UG/L	Metal
7440360	01096	88[p]	6.0	1500[p]		ANTIMONY, SUSPENDED	UG/L	Metal
7440360	01097	88[p]	6.0	1500[p]		ANTIMONY, TOTAL	UG/L	Metal
7440439	01113	3.9[+]	5.0	43		CADMIUM,TOTAL RECOVERABLE IN WATER AS CD	UG/L	Metal
7439921	01114	82[+]	15[a]	220		LEAD, TOTAL RECOVERABLE IN WATER AS PB	UG/L	Metal
7440473	01118		100			CHROMIUM TOTAL RECOVERABLE IN WATER AS CR	UG/L	Metal
7440508	01119	18[+]	1300[a]	2.9		COPPER, TOTAL RECOVERABLE IN WATER AS CU	UG/L	Metal
7440280	01124	1400[*]	2.0	2130[*]		THALLIUM, ACID SOLUBLE, WATER, WHOLE	UG/L	Metal
7440280	01128	1400[*]	2.0	2130[*]		THALLIUM, TOTAL RECOVERABLE <95%	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7782492	01145	20	50	300		SELENIUM, DISSOLVED	UG/L	Metal
7782492	01146	20	50	300		SELENIUM, SUSPENDED	UG/L	Metal
7782492	01147	20	50	300		SELENIUM, TOTAL	UG/L	Metal
7782492	01167	20	50	300		SELENIUM, ACID SOLUBLE, WATER, WHOLE	UG/L	Metal
18540299	01220	16	100	1100		CHROMIUM, HEXAVALENT, DISSOLVED	UG/L	Metal
7440360	01268	88[p]	6.0	1500[p]		ANTIMONY (SB), WATER, TOTAL RECOVERABLE	UG/L	Metal
57125	01291	22	200	1.0		CYANIDE, FILTERABLE, TOTAL IN WATER	UG/L	General Inorganic
7440666	01303	0.120[+]	5.0[s]	0.095		ZINC, POTENTIALLY DISSOLVED WATER	MG/L	Metal
7440224	01304	0.0041[+]	0.1[s]	0.00012		SILVER, POTENTIALLY DISSOLVED WATER	MG/L	Metal
7440508	01306	0.018[+]	1.3[a]	0.0029		COPPER, POTENTIALLY DISSOLVED WATER	MG/L	Metal
18540299	01307	0.016	0.1	1.1		CHROMIUM, HEXAVALENT, POTENTIALLY DISSOLVED	MG/L	Metal
7440382	01309	0.36	0.05	0.069		ARSENIC, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440393	01311		2.0			BARIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440417	01312	0.13[*]	0.004			BERYLLIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440439	01313	0.0039[+]	0.005	0.043		CADMIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
16065831	01314	1.7[+]	0.1	10.3[*]		CHROMIUM, TRIVALENT, POTENTIALLY DISSOLVED	MG/L	Metal
7439921	01318	0.082[+]	0.015[a]	0.220		LEAD, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7439976	01321	0.0024	0.002	0.0021		MERCURY, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440020	01322	1.4[+]	0.1	0.075		NICKEL, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7782492	01323	0.020	0.050	0.300		SELENIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440280	01324	1.4*	0.002	2.13*		THALLIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440611	01326		0.020c			URANIUM, POTENTIALLY DISSOLVED, WATER	MG/L	Metal
7440224	01523	4.1+	100s	0.12		SILVER, IONIC	UG/L	Metal
50328	03648		0.2			BENZO (A) PYRENE, LIQUID FRACTION, ELUTRIATE	UG/L	General Organic
122349	04035		4.0			SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE	UG/L	Pesticide
10028178	04124		20r			TRITIUM, TOTAL, WATER	PC/ML	Radiological
10028178	07000		20000r			TRITIUM, TOTAL	PC/L	Radiological
10028178	07005		20000r			TRITIUM, DISSOLVED	PC/L	Radiological
10028178	07010		20000r			TRITIUM, SUSPENDED	PC/L	Radiological
	09501		5.0			RADIUM 226, TOTAL	PC/L	Radiological
	09503		5.0			RADIUM 226, DISSOLVED	PC/L	Radiological
	09505		5.0			RADIUM 226, SUSPENDED	PC/L	Radiological
	11500		5.0			RADIUM 226 + RADIUM 228, DISSOLVED	PC/L	Radiological
	11501		5.0			RADIUM 228, TOTAL	PC/L	Radiological
	11503		5.0			RADIUM 226 + RADIUM 228, TOTAL	PC/L	Radiological
10098972	13501		8.0r			STRONTIUM 90, TOTAL	PC/L	Radiological
10098972	13503		8.0r			STRONTIUM 90, DISSOLVED	PC/L	Radiological
10098972	13505		8.0r			STRONTIUM 90, SUSPENDED	PC/L	Radiological
7782492	22675	20	50	300		SELENIUM, DISSOLVED ORGANIC	UG/L	Metal
7782492	22676	20	50	300		SELENIUM, HEXAVALENT, DISSOLVED	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7782492	22677	20	50	300		SELENIUM, TETRAVALENT, DISSOLVED	UG/L	Metal
7440382	22678	360	50	69		ARSENIC, DISSOLVED ORGANIC	UG/L	Metal
7440382	22679	850*	50	2319*		ARSENIC, PENTAVALENT,DISSOLVED	UG/L	Metal
7440382	22680	360	50	69		ARSENIC, TRIVALENT, DISSOLVED	UG/L	Metal
7440611	22703		20c			URANIUM, NATURAL DISSOLVED	UG/L	Metal
7440611	22705		20c			URANIUM, NATURAL SUSPENDED	UG/L	Metal
7440611	22706		20c			URANIUM, TOTAL AS U308	UG/L	Metal
7440611	22708		0.020c			URANIUM, NATURAL, TOTAL	MG/L	Radiological
7440611	28011		20c			URANIUM, NATURAL, TOTAL	UG/L	Radiological
88857	30191		7.0			DINOSEB, WATER, WHOLE RECOVERABLE	UG/L	Pesticide
75990	30200		200			DALAPON, WATER, WHOLE RECOVERABLE	UG/L	Pesticide
106934	30203		0.05			ETHANE, 1,2-DIBROMO-, WATER, WHOLE, RECOVERABLE	UG/L	Pesticide
	31501		1.0n		1000b	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	CFU/100ML	Bacteriological
	31503		1.0n		1000b	COLIFORM, TOTAL, MEMBRANE FILTER, DELAY. M-ENDO	CFU/100ML	Bacteriological
	31504		1.0n		1000b	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED. LES-ENDO	CFU/100ML	Bacteriological
	31505		1.0n		1000b	COLIFORM, TOTAL, MPN, CONF. TEST 35C (TUBE 31506)	MPN/100ML	Bacteriological
	31506		1.0n		1000b	COLIFORM, TOTAL, MPN, CONF. TEST, TUBE CONFIG	MPN/100ML	Bacteriological
	31507		1.0n		1000b	COLIFORM, TOTAL, MPN, COMP. TEST 35C (TUBE 31508)	MPN/100ML	Bacteriological
	31508		1.0n		1000b	COLIFORM, TOTAL, MPN, COMP. TEST, TUBE CONFIG	MPN/100ML	Bacteriological
	31613				200^	FECAL COLIFORM, MEMBRANE FILTER, AGAR	CFU/100ML	Bacteriological

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
	31614				200^	FECAL COLIFORM, MPN, TUBE CONFIGURATION	MPN/100ML	Bacteriological
	31615				200^	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	MPN/100ML	Bacteriological
	31616				200^	FECAL COLIFORM, MEMBRANE FILTER, BROTH, 44.5C	CFU/100ML	Bacteriological
	31617				200^	FECAL COLIFORM, MPN, EIJKMAN, 44.5C (TUBE 31618)	MPN/100ML	Bacteriological
	31625				200^	FECAL COLIFORM, MF, M-FC, 0.7 UM	CFU/100ML	Bacteriological
	31648				126^	E. COLI, MTEC, MF	CFU/100ML	Bacteriological
	31649				33^	ENTEROCOCCI, ME, MF	CFU/100ML	Bacteriological
67663	32003	28900*	100[t]			CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL	UG/L	General Organic
67663	32005	28900*	100[t]			CARBON CHLOROFORM EXTRACTABLES	UG/L	General Organic
67663	32021	28900*	100[t]			CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLES OF	UG/L	General Organic
67663	32022	28900*	100[t]			CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES OF	UG/L	General Organic
75274	32101		100[t]			BROMODICHLOROMETHANE, WHOLE WATER	UG/L	General Organic
56235	32102	35200*	5.0	50000*		CARBON TETRACHLORIDE, WHOLE WATER	UG/L	General Organic
107062	32103	118000*	5.0	113000*		1,2-DICHLOROETHANE,WHOLE WATER	UG/L	General Organic
75252	32104		100[t]			BROMOFORM, WHOLE WATER	UG/L	General Organic
124481	32105		100[t]			DIBROMOCHLOROMETHANE, WHOLE WATER	UG/L	General Organic
67663	32106	28900*	100[t]			CHLOROFORM, WHOLE WATER	UG/L	General Organic
56235	32260	35.2*	0.005	50*		CARBON TETRACHLORIDE EXTRACTABLES	MG/L	General Organic
67663	32270	28.9*	0.1[t]			CHLOROFORM EXTRACTABLES TOTAL	MG/L	General Organic
108883	34010	17500*	1000	6300*		TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.	UG/L	General Organic

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

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
108907	34301		100			CHLOROBENZENE, TOTAL	UG/L	General Organic
108907	34302		100			CHLOROBENZENE, DISSOLVED	UG/L	General Organic
108907	34303		100			CHLOROBENZENE, SUSPENDED	UG/L	General Organic
124481	34306		100[t]			CHLORODIBROMOMETHANE, TOTAL	UG/L	General Organic
124481	34307		100[t]			CHLORODIBROMOMETHANE, DISSOLVED	UG/L	General Organic
124481	34308		100[t]			CHLORODIBROMOMETHANE, SUSPENDED	UG/L	General Organic
67663	34316	28900[*]	100[t]			CHLOROFORM, DISSOLVED	UG/L	General Organic
67663	34317	28900[*]	100[t]			CHLOROFORM, SUSPENDED	UG/L	General Organic
57125	34325	0.022	0.2	0.001		CYANIDE, SUSPENDED	MG/L	General Inorganic
75274	34328		100[t]			DICHLOROBROMOMETHANE, DISSOLVED	UG/L	General Organic
75274	34329		100[t]			DICHLOROBROMOMETHANE, SUSPENDED	UG/L	General Organic
122667	34346	270[*]				1,2-DIPHENYLHYDRAZINE, TOTAL	UG/L	General Organic
122667	34347	270[*]				1,2-DIPHENYLHYDRAZINE, DISSOLVED	UG/L	General Organic
122667	34348	270[*]				1,2-DIPHENYLHYDRAZINE, SUSPENDED	UG/L	General Organic
33213659	34356	0.22		0.034		ENDOSULFAN, BETA, TOTAL	UG/L	Pesticide
33213659	34357	0.22		0.034		ENDOSULFAN, BETA, DISSOLVED	UG/L	Pesticide
33213659	34358	0.22		0.034		ENDOSULFAN, BETA, SUSPENDED	UG/L	Pesticide
959988	34361	0.22		0.034		ENDOSULFAN, ALPHA, TOTAL	UG/L	Pesticide
959988	34362	0.22		0.034		ENDOSULFAN, ALPHA, DISSOLVED	UG/L	Pesticide
959988	34363	0.22		0.034		ENDOSULFAN, ALPHA, SUSPENDED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
100414	34371	32000*	700	430*		ETHYLBENZENE, TOTAL	UG/L	General Organic
100414	34372	32000*	700	430*		ETHYLBENZENE, DISSOLVED	UG/L	General Organic
100414	34373	32000*	700	430*		ETHYLBENZENE, SUSPENDED	UG/L	General Organic
206440	34376	3980*		40*		FLUORANTHENE, TOTAL	UG/L	General Organic
206440	34377	3980*		40*		FLUORANTHENE, DISSOLVED	UG/L	General Organic
206440	34378	3980*		40*		FLUORANTHENE, SUSPENDED	UG/L	General Organic
77474	34386	7.0*	50	7.0*		HEXACHLOROCYCLOPENTADIENE, TOTAL	UG/L	General Organic
77474	34387	7.0*	50	7.0*		HEXACHLOROCYCLOPENTADIENE, DISSOLVED	UG/L	General Organic
77474	34388	7.0*	50	7.0*		HEXACHLOROCYCLOPENTADIENE, SUSPENDED	UG/L	General Organic
87683	34391	90*		32*		HEXACHLOROBUTADIENE, TOTAL	UG/L	General Organic
87683	34392	90*		32*		HEXACHLOROBUTADIENE, DISSOLVED	UG/L	General Organic
87683	34393	90*		32*		HEXACHLOROBUTADIENE, SUSPENDED	UG/L	General Organic
67721	34396	980*		940*		HEXACHLOROETHANE, TOTAL	UG/L	General Organic
67721	34397	980*		940*		HEXACHLOROETHANE, DISSOLVED	UG/L	General Organic
67721	34398	980*		940*		HEXACHLOROETHANE, SUSPENDED	UG/L	General Organic
118741	34401	6.0[p]	1.0			HEXACHLOROBENZENE, DISSOLVED	UG/L	General Organic
118741	34402	6.0[p]	1.0			HEXACHLOROBENZENE, SUSPENDED	UG/L	General Organic
193395	34403		0.40[c]			INDENO (1,2,3-CD) PYRENE, TOTAL	UG/L	General Organic
193395	34404		0.40[c]			INDENO (1,2,3-CD) PYRENE, DISSOLVED	UG/L	General Organic
193395	34405		0.40[c]			INDENO (1,2,3-CD) PYRENE, SUSPENDED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
78591	34408	117000*		12900*		ISOPHORONE, TOTAL	UG/L	Pesticide
78591	34409	117000*		12900*		ISOPHORONE, DISSOLVED	UG/L	Pesticide
78591	34410	117000*		12900*		ISOPHORONE, SUSPENDED	UG/L	Pesticide
75092	34423		5.0			METHYLENE CHLORIDE, TOTAL	UG/L	General Organic
75092	34424		5.0			METHYLENE CHLORIDE, DISSOLVED	UG/L	General Organic
75092	34425		5.0			METHYLENE CHLORIDE, SUSPENDED	UG/L	General Organic
91203	34443	2300*		2350*		NAPHTHALENE, DISSOLVED	UG/L	General Organic
91203	34444	2300*		2350*		NAPHTHALENE, SUSPENDED	UG/L	General Organic
98953	34447	27000*		6680*		NITROBENZENE, TOTAL	UG/L	General Organic
98953	34448	27000*		6680*		NITROBENZENE, DISSOLVED	UG/L	General Organic
98953	34449	27000*		6680*		NITROBENZENE, SUSPENDED	UG/L	General Organic
59507	34452	30*				PARACHLOROMETA CRESOL, TOTAL	UG/L	General Organic
59507	34453	30*				PARACHLOROMETA CRESOL, DISSOLVED	UG/L	General Organic
59507	34454	30*				PARACHLOROMETA CRESOL, SUSPENDED	UG/L	General Organic
87865	34459	20***	1.0	13		PCP (PENTACHLOROPHENOL), DISSOLVED	UG/L	Pesticide
87865	34460	20***	1.0	13		PCP (PENTACHLOROPHENOL), SUSPENDED	UG/L	Pesticide
85018	34461	30p		7.7p		PHENANTHRENE, TOTAL	UG/L	General Organic
85018	34462	30p		7.7p		PHENANTHRENE, DISSOLVED	UG/L	General Organic
85018	34463	30p		7.7p		PHENANTHRENE, SUSPENDED	UG/L	General Organic
108952	34466	10200*		5800*		PHENOL, DISSOLVED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
108952	34467	10200*		5800*		PHENOL, SUSPENDED	UG/L	General Organic
127184	34475	5280*	5.0	10200*		TETRACHLOROETHYLENE, TOTAL	UG/L	General Organic
127184	34476	5280*	5.0	10200*		TETRACHLOROETHYLENE, DISSOLVED	UG/L	General Organic
127184	34477	5280*	5.0	10200*		TETRACHLOROETHYLENE, SUSPENDED	UG/L	General Organic
108883	34481	17500*	1000	6300*		TOLUENE, DISSOLVED	UG/L	General Organic
108883	34482	17500*	1000	6300*		TOLUENE, SUSPENDED	UG/L	General Organic
79016	34485	45000*	5.0	2000*		TRICHLOROETHYLENE, DISSOLVED	UG/L	General Organic
79016	34486	45000*	5.0	2000*		TRICHLOROETHYLENE, SUSPENDED	UG/L	General Organic
75014	34493		2.0			VINYL CHLORIDE, DISSOLVED	UG/L	General Organic
75014	34494		2.0			VINYL CHLORIDE, SUSPENDED	UG/L	General Organic
75354	34501		7.0			1,1-DICHLOROETHYLENE, TOTAL	UG/L	General Organic
75354	34502		7.0			1,1-DICHLOROETHYLENE, DISSOLVED	UG/L	General Organic
75354	34503		7.0			1,1-DICHLOROETHYLENE, SUSPENDED	UG/L	General Organic
71556	34506		200	31200*		1,1,1-TRICHLOROETHANE, TOTAL	UG/L	General Organic
71556	34507		200	31200*		1,1,1-TRICHLOROETHANE, DISSOLVED	UG/L	General Organic
71556	34508		200	31200*		1,1,1-TRICHLOROETHANE, SUSPENDED	UG/L	General Organic
79005	34511		5.0			1,1,2-TRICHLOROETHANE, TOTAL	UG/L	General Organic
79005	34512		5.0			1,1,2-TRICHLOROETHANE, DISSOLVED	UG/L	General Organic
79005	34513		5.0			1,1,2-TRICHLOROETHANE, SUSPENDED	UG/L	General Organic
79345	34516			9020*		1,1,2,2-TETRACHLOROETHANE, TOTAL	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
79345	34517			9020*		1,1,2,2-TETRACHLOROETHANE, DISSOLVED	UG/L	General Organic
79345	34518			9020*		1,1,2,2-TETRACHLOROETHANE, SUSPENDED	UG/L	General Organic
107062	34531	118000*	5.0	113000*		1,2-DICHLOROETHANE, TOTAL	UG/L	General Organic
107062	34532	118000*	5.0	113000*		1,2-DICHLOROETHANE, DISSOLVED	UG/L	General Organic
107062	34533	118000*	5.0	113000*		1,2-DICHLOROETHANE, SUSPENDED	UG/L	General Organic
95501	34536		600			1,2-DICHLOROBENZENE, TOTAL	UG/L	General Organic
95501	34537		600			1,2-DICHLOROBENZENE, DISSOLVED	UG/L	General Organic
95501	34538		600			1,2-DICHLOROBENZENE, SUSPENDED	UG/L	General Organic
78875	34541		5.0			1,2-DICHLOROPROPANE, TOTAL	UG/L	General Organic
78875	34542		5.0			1,2-DICHLOROPROPANE, DISSOLVED	UG/L	General Organic
78875	34543		5.0			1,2-DICHLOROPROPANE, SUSPENDED	UG/L	General Organic
156605	34546		100			TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER	UG/L	General Organic
156605	34547		100			TRANS-1,2-DICHLOROETHENE, DISSOLVED	UG/L	General Organic
156605	34548		100			TRANS-1,2-DICHLOROETHENE, SUSPENDED	UG/L	General Organic
120821	34551		70			1,2,4-TRICHLOROBENZENE, TOTAL	UG/L	General Organic
120821	34552		70			1,2,4-TRICHLOROBENZENE, DISSOLVED	UG/L	General Organic
120821	34553		70			1,2,4-TRICHLOROBENZENE, SUSPENDED	UG/L	General Organic
541731	34566		600			1,3-DICHLOROBENZENE, TOTAL	UG/L	General Organic
541731	34567		600			1,3-DICHLOROBENZENE, DISSOLVED	UG/L	General Organic
541731	34568		600			1,3-DICHLOROBENZENE, SUSPENDED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
106467	34571		75			1,4-DICHLOROBENZENE, TOTAL	UG/L	General Organic
106467	34572		75			1,4-DICHLOROBENZENE, DISSOLVED	UG/L	General Organic
106467	34573		75			1,4-DICHLOROBENZENE, SUSPENDED	UG/L	General Organic
95578	34586	4380*				2-CHLOROPHENOL, TOTAL	UG/L	General Organic
95578	34587	4380*				2-CHLOROPHENOL, DISSOLVED	UG/L	General Organic
95578	34588	4380*				2-CHLOROPHENOL, SUSPENDED	UG/L	General Organic
120832	34601	2020*				2,4-DICHLOROPHENOL, TOTAL	UG/L	General Organic
120832	34602	2020*				2,4-DICHLOROPHENOL, DISSOLVED	UG/L	General Organic
120832	34603	2020*				2,4-DICHLOROPHENOL, SUSPENDED	UG/L	General Organic
105679	34606	2120*				2,4-DIMETHYLPHENOL, TOTAL	UG/L	General Organic
105679	34607	2120*				2,4-DIMETHYLPHENOL, DISSOLVED	UG/L	General Organic
105679	34608	2120*				2,4-DIMETHYLPHENOL, SUSPENDED	UG/L	General Organic
121142	34611	330*		590*		2,4-DINITROTOLUENE, TOTAL	UG/L	General Organic
121142	34612	330*		590*		2,4-DINITROTOLUENE, DISSOLVED	UG/L	General Organic
121142	34613	330*		590*		2,4-DINITROTOLUENE, SUSPENDED	UG/L	General Organic
72548	34651	0.6*		3.6*		P,P'-DDD, DISSOLVED	UG/L	Pesticide
72548	34652	0.6*		3.6*		P,P'-DDD, SUSPENDED	UG/L	Pesticide
72559	34653	1050*		14*		P,P'-DDE, DISSOLVED	UG/L	Pesticide
72559	34654	1050*		14*		P,P'-DDE, SUSPENDED	UG/L	Pesticide
50293	34655	1.1		0.13		P,P'-DDT, DISSOLVED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
50293	34656	1.1		0.13		P,P'-DDT, SUSPENDED	UG/L	Pesticide
1746016	34675	0.01*	0.00003			2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD), TOT	UG/L	General Organic
1746016	34676	0.01*	0.00003			2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD), DISS	UG/L	General Organic
1746016	34677	0.01*	0.00003			2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD), SUSP	UG/L	General Organic
108952	34694	10200*		5800*		PHENOL (C6H5OH) - SINGLE COMPOUND, TOTAL	UG/L	General Organic
91203	34696	2300*		2350*		NAPHTHALENE, TOTAL	UG/L	General Organic
75990	38432		200			DALAPON, WATER, TOTAL	UG/L	Pesticide
75990	38433		200			DALAPON, WATER, DISSOLVED	UG/L	Pesticide
75990	38434		200			DALAPON, WATER, SUSPENDED	UG/L	Pesticide
96128	38437		0.2			DIBROMOCHLOROPROPANE, WATER, TOTAL	UG/L	Pesticide
96128	38438		0.2			DIBROMOCHLOROPROPANE, WATER, DISSOLVED	UG/L	Pesticide
96128	38439		0.2			DIBROMOCHLOROPROPANE WATER, SUSPENDED	UG/L	Pesticide
96128	38760		0.2			DBCP, WATER, TOTAL	UG/L	Pesticide
96128	38761		0.2			DBCP, WATER, DISSOLVED	UG/L	Pesticide
96128	38762		0.2			DBCP, WATER, SUSPENDED	UG/L	Pesticide
88857	38779		7.0			DINOSEB, DISSOLVED	UG/L	Pesticide
88857	38780		7.0			DINOSEB, SUSPENDED	UG/L	Pesticide
23135220	38865		200			OXAMYL, TOTAL	UG/L	Pesticide
23135220	38866		200			OXAMYL, DISSOLVED	UG/L	Pesticide
23135220	38867		200			OXAMYL, SUSPENDED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
145733	38926		100			ENDOTHALL, WHOLE WATER SAMPLE	UG/L	Pesticide
2921882	38932	0.083		0.011		CHLORPYRIFOS, TOTAL RECOVERABLE	UG/L	Pesticide
2921882	38933	0.083		0.011		CHLORPYRIFOS, DISSOLVED	UG/L	Pesticide
2163806	38935		50			MONOSODIUM METHANEARSONATE (MSMA)	UG/L	Pesticide
2921882	39012	0.083		0.011		DURSBAN, FLAME PHOTOMETRIC, WATER SAMPLE	UG/L	Pesticide
56382	39015	0.065				ETHYLPARATHION, FLAME IONIFATION, WATER SAMPLE	UG/L	Pesticide
122349	39025		4.0			SIMAZINE, COULSON CONDUCTIVITY WATER SAMPLE	UG/L	Pesticide
87865	39032	20***	1.0	13		PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE	UG/L	Pesticide
1912249	39033		3.0			ATRAZINE IN WHOLE WATER SAMPLE	UG/L	Pesticide
118741	39039	6.0[p]	1.0			HEXACHLOROBENZENE WATER SAMPLE, ELECTRON CPT	UG/L	Pesticide
93721	39045		50			2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPLE	UG/L	Pesticide
116063	39053		3.0			ALDICARB IN WHOLE WATER	UG/L	Pesticide
122349	39055		4.0			SIMAZINE IN WHOLE WATER	UG/L	Pesticide
117817	39100	2000*	6.0			BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	UG/L	General Organic
117817	39103	2000*	6.0			BIS(2-ETHYLHEXYL) PHTHALATE, DISSOLVED	UG/L	General Organic
117817	39104	2000*	6.0			BIS(2-ETHYLHEXYL) PHTHALATE, SUSPENDED	UG/L	General Organic
	39117	0.94*		2.994*		PHTHLATE ESTERS IN WATER	MG/L	General Organic
75014	39175		2.0			VINYL CHLORIDE-WHOLE WATER SAMPLE	UG/L	General Organic
79016	39180	45000*	5.0	2000*		TRICHLOROETHYLENE-WHOLE WATER SAMPLE	UG/L	General Organic
50293	39300	1.1		0.13		P,P' DDT IN WHOLE WATER SAMPLE	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
72548	39310	0.6*		3.6*		P,P' DDD IN WHOLE WATER SAMPLE	UG/L	Pesticide
72559	39320	1050*		14*		P,P' DDE IN WHOLE WATER SAMPLE	UG/L	Pesticide
309002	39330	3.0		1.3		ALDRIN IN WHOLE WATER SAMPLE	UG/L	Pesticide
309002	39331	3.0		1.3		ALDRIN IN FILT. FRAC. OF WAT. SAMP.	UG/L	Pesticide
309002	39332	3.0		1.3		ALDRIN IN SUSP. FRAC. OF WAT. SAMP.	UG/L	Pesticide
58899	39340	2.0	0.2	0.16		GAMMA-BHC(LINDANE), WHOLE WATER	UG/L	Pesticide
58899	39341	2.0	0.2	0.16		GAMMA-BHC(LINDANE), DISSOLVED	UG/L	Pesticide
58899	39342	2.0	0.2	0.16		GAMMA-BHC(LINDANE), SUSPENDED	UG/L	Pesticide
57749	39350	2.4	2.0	0.09		CHLORDANE(TECH MIX & METABS), WHOLE WATER	UG/L	Pesticide
57749	39352	2.4	2.0	0.09		CHLORDANE(TECH MIX & METABS), DISSOLVED	UG/L	Pesticide
57749	39353	2.4	2.0	0.09		CHLORDANE(TECH MIX & METABS), SUSPENDED	UG/L	Pesticide
72548	39360	0.6*		3.6*		DDD IN WHOLE WATER SAMPLE	UG/L	Pesticide
72548	39361	0.6*		3.6*		DDD IN FILT. FRAC. OF WATER SMAPLE	UG/L	Pesticide
72548	39362	0.6*		3.6*		DDD IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
72559	39365	1050*		14*		DDE IN WHOLE WATER SAMPLE	UG/L	Pesticide
72559	39366	1050*		14*		DDE IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
72559	39367	1050*		14*		DDE IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
50293	39370	1.1		0.13		DDT IN WHOLE WATER SAMPLE	UG/L	Pesticide
50293	39371	1.1		0.13		DDT IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
50293	39372	1.1		0.13		DDT IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
60571	39380	2.5		0.71		DIELDRIN IN WHOLE WATER SAMPLE	UG/L	Pesticide
60571	39381	2.5		0.71		DIELDRIN IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
60571	39382	2.5		0.71		DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
115297	39388	0.22		0.034		ENDOSULFAN IN WHOLE WATER SAMPLE	UG/L	Pesticide
72208	39390	0.18	2.0	0.037		ENDRIN IN WHOLE WATER SAMPLE	UG/L	Pesticide
72208	39391	0.18	2.0	0.037		ENDRIN IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
72208	39392	0.18	2.0	0.037		ENDRIN IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
8001352	39400	0.73	3.0	0.21		TOXAPHENE IN WHOLE WATER SAMPLE	UG/L	Pesticide
8001352	39401	0.73	3.0	0.21		TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
8001352	39402	0.73	3.0	0.21		TOXAPHENE IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
76448	39410	0.52	0.4	0.053		HEPTACHLOR IN WHOLE WATER SAMPLE	UG/L	Pesticide
76448	39411	0.52	0.4	0.053		HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
76448	39412	0.52	0.4	0.053		HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
1024573	39420	0.52	0.2	0.053		HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	UG/L	Pesticide
1024573	39421	0.52	0.2	0.053		HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER SAMPLE	UG/L	Pesticide
1024573	39422	0.52	0.2	0.053		HEPTACHLOR EPOXIDE IN SUSP. FRAC. WATER SAMPLE	UG/L	Pesticide
72435	39478		40			METHOXYCHLOR IN WHOLE WATER DISSOLVED	UG/L	Pesticide
72435	39479		40			METHOXYCHLOR IN WHOLE WATER SUSPENDED	UG/L	Pesticide
72435	39480		40			METHOXYCHLOR IN WHOLE WATER SAMPLE	UG/L	Pesticide
56382	39540	0.065				PARATHION IN WHOLE WATER SAMPLE	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
56382	39542	0.065				PARATHION IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
56382	39543	0.065				PARATHION IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
1912249	39630		3.0			ATRAZINE(AATREX) IN WHOLE WATER SAMPLE	UG/L	Pesticide
1912249	39632		3.0			ATRAZINE DISSOLVED IN WATER	PPB	Pesticide
118741	39700	6.0[p]	1.0			HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	UG/L	General Organic
87683	39702	90[*]		32[*]		HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE	UG/L	General Organic
1918021	39720		500			PICLORAM IN WHOLE WATER SAMPLE	UG/L	Pesticide
94757	39730		70			2,4-D IN WHOLE WATER SAMPLE	UG/L	Pesticide
94757	39732		70			2,4-D IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
94757	39733		70			2,4-D IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
93721	39760		50			SILVEX IN WHOLE WATER SAMPLE	UG/L	Pesticide
93721	39762		50			SILVEX IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
93721	39763		50			SILVEX IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
58899	39782	2.0	0.2	0.16		LINDANE IN WHOLE WATER SAMPLE	UG/L	Pesticide
1071836	39941		700			ROUNDUP IN WHOLE WATER SAMPLE (GLYPHOSATE)	UG/L	Pesticide
7782505	45650	0.019		0.013		CHLORINE, IN ORGANIC COMPOUNDS, WATER, WHOLE	MG/L	General Inorganic
56382	46315	0.065				ETHYL PARATHION IN WHOLE WATER SAMPLE	UG/L	Pesticide
58899	46322	2.0	0.2	0.16		LINDANE PLUS ISOMERS IN WHOLE WATER SAMPLE	UG/L	Pesticide
76448	46326	0.52	0.4	0.053		HEPTACHLOR AND METABOLITES IN WHOLE H2O SAMPLE	UG/L	Pesticide
15972608	46342		2.0			ALACHLOR (LASSO), WATER, DISSOLVED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7782505	46472	0.019		0.013		CHLORINE, TOTAL RESIDUAL, AVERAGE VALUE, WATER	MG/L	General Inorganic
7782505	46473	0.019		0.013		CHLORINE, FREE AVAILABLE, AVERAGE VALUE, WATER	MG/L	General Inorganic
57125	46479	22	200	1.0		CYANIDE, DISSOLVED, WATER	UG/L	General Inorganic
7440382	46551	360	50	69		ARSENIC, FIELD ACIDIFIED W/HNO3, LAB FILTERED	UG/L	Metal
7440393	46558		2000			BARIUM, FIELD ACIDIFIED W/HNO3-LAB FILT	UG/L	Metal
7440439	46559	3.9[+]	5.0	43		CADMIUM,FIELD ACIDIFIED-HNO3-LAB FILTER	UG/L	Metal
7440473	46560		100			CHROMIUM, FIELD ACIDIFIED-HNO3-LAB FILT.	UG/L	Metal
7440508	46562	18[+]	1300[a]	2.9		COPPER, FIELD ACIDIFIED-HNO3- LAB FILTER.	UG/L	Metal
7439921	46564	82[+]	15[a]	220		LEAD, FIELD ACIDIFIED-HNO3-LAB FILTERED	UG/L	Metal
7440224	46566	4.1[+]	100[s]	0.12		SILVER, FIELD ACIDIFIED-HNO3-LAB FILTER.	UG/L	Metal
7440666	46567	120[+]	5000[s]	95		ZINC, EXTRACTABLE, FIELD ACID W/HNO3,LAB FILTR	UG/L	Metal
56382	49011	0.065				UNKNOWNS AS PARATHION IN WHOLE WATER SAMPLE	UG/L	Pesticide
7782505	50058	0.019		0.013		CHLORINE DOSE	MG/L	General Inorganic
7782505	50060	0.019		0.013		CHLORINE, TOTAL RESIDUAL	MG/L	General Inorganic
7782505	50064	0.019		0.013		CHLORINE, FREE AVAILABLE	MG/L	General Inorganic
7782505	50066	0.019		0.013		CHLORINE, COMBINED AVAILABLE	MG/L	General Inorganic
7782505	50074	0.019		0.013		CHLORITE, WHOLE WATER	MG/L	General Inorganic
	61215				200[^]	FECAL COLIFORM, GENERAL #/100ML	#/100ML	Bacteriological
16887006	70352	860	250[s]			CHLORIDE, ORGANIC	MG/L	General Organic
14797558	71850		44			NITRATE NITROGEN, TOTAL (AS NO3)	MG/L	Nitrogen

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
14797558	71851		44			NITRATE NITROGEN, DISSOLVED (AS NO3)	MG/L	Nitrogen
14797650	71855		3.3			NITRITE NITROGEN, TOTAL (AS NO2)	MG/L	Nitrogen
14797650	71856		3.3			NITRITE NITROGEN, DISSOLVED (AS NO2)	MG/L	Nitrogen
7439976	71890	2.4	2.0	2.1		MERCURY, DISSOLVED	UG/L	Metal
7439976	71895	2.4	2.0	2.1		MERCURY, SUSPENDED	UG/L	Metal
7439976	71900	2.4	2.0	2.1		MERCURY, TOTAL	UG/L	Metal
7439976	71901	2.4	2.0	2.1		MERCURY,TOTAL RECOVERABLE IN WATER AS HG	UG/L	Metal
7440439	71946	3.9[+]	5.0	43		CADMIUM, EXTRACTABLE	UG/L	Metal
7440473	71947		100			CHROMIUM, EXTRACTABLE	UG/L	Metal
7439921	71949	82[+]	15[a]	220		LEAD, EXTRACTABLE	UG/L	Metal
7440666	71950	120[+]	5000[s]	95		ZINC, EXTRACTABLE	UG/L	Metal
7440508	71951	18[+]	1300[a]	2.9		COPPER, EXTRACTABLE	UG/L	Metal
1336363	76011	2000	500	10000		PCBS, SUSPENDED, WATER	NG/L	General Organic
1336363	76012	2000	500	10000		PCBS, TOTAL RECOVERABLE, WATER	NG/L	General Organic
156592	77093		70			CIS-1,2-DICHLOROETHYLENE, WHOLE WATER	UG/L	General Organic
100425	77128		100			STYRENE, WHOLE WATER	UG/L	General Organic
106489	77296			29700[*]		P-CHLOROPHENOL, WHOLE WATER	UG/L	General Organic
106934	77651		0.05			1,2-DIBROMOETHANE, WHOLE WATER	UG/L	General Organic
95954	77687	100[p]		240[p]		2,4,5-TRICHLOROPHENOL, WHOLE WATER	UG/L	General Organic
935955	77769			440[*]		2,3,5,6-TETRACHLOROPHENOL, WHOLE WATER	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
103231	77903		400			BIS (2-ETHYLHEXYL) ADIPATE, WHOLE WATER	UG/L	General Organic
18540299	78247	16	100	1100		CHROMIUM, HEXAVALENT, TOTAL RECOVERABLE	UG/L	Metal
57125	78248	22	200	1.0		CYANIDE, TOTAL RECOVERABLE, WATER, WHOLE	UG/L	Metal
	78456	11*		12*		HALOMETHANES, SUMMATION, WHOLE WATER	MG/L	General Organic
14808798	78462		250s			SULFATE, WATER, DISSOLVED AS S	MG/L	Metal
85007	78885		20			DIQUAT DIBROMIDE (REGLONE) WHOLE WATER SAMPLE	UG/L	Pesticide
7440611	80020		20c			URANIUM, DISS. BY EXTRACTION FLUOROMETRIC	UG/L	Radiological
16065831	80357	1700	100	10300*		CHROMIUM, TRIVALENT, DISSOLVED	UG/L	Metal
57125	81208	0.022	0.2	0.001		CYANIDE,FREE (NOT AMENABLE TO CHLORINATION)	MG/L	General Inorganic
608731	81283	100*		0.34*		BENZENEHEXACHLORIDE, WHOLE WATER	UG/L	Pesticide
88857	81287		7.0			DNBP(C10H12N2O5), WHOLE WATER SAMPLE	UG/L	Pesticide
26638197	81327	23000*	5.0	10300*		DICHLOROPROPANE, WHOLE WATER SAMPLE	UG/L	General Organic
25321226	81333	1120*		1970*		DICHLOROBENZENE ISOMER, WHOLE WATER SAMPLE	UG/L	General Organic
2921882	81403	0.083		0.011		DURSBAN (CHLOROPYRIFOS) WHOLE WATER SAMPLE	UG/L	Pesticide
1563662	81405		40			CARBOFURAN (EURADAN) WHOLE WATER SAMPLE	UG/L	Pesticide
76017	81501	7240*		390*		PENTACHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
25321226	81524	1120*		1970*		DICHLOROBENZENE, WHOLE WATER SAMPLE	UG/L	General Organic
25322207	81549	9320*				TETRACHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
26638197	81703	23*	0.005*	10.3*		DICHLOROPROPANE, WHOLE WATER SAMPLE	MG/L	General Organic
7440508	81750	18+	1300a	2.9		COPPER, INTERSTITIAL WATERFROM SEDIMENTS	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440020	81752	1400[+]	100	75		NICKEL, INTERSTITIAL WATER FROM SEDIMENTS	UG/L	Metal
7440666	81754	120[+]	5000[s]	95		ZINC, INTERSTITIAL WATER FROM SEDIMENTS	UG/L	Metal
25323891	81853	18000[*]				TRICHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
7439976	81931	2.4	2.0	2.1		MERCURY (HG) SUSPENDED FRACTION OF WATER	UG/G	Metal
7440666	81933	120[+]	5000[s]	95		ZINC (ZN) SUSPENDED FRACTION OF WATER	UG/G	Metal
7439921	81936	82[+]	15[a]	220		LEAD (PB) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440439	81937	3.9[+]	5.0	43		CADMIUM (CD) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440473	81938		100			CHROMIUM (CR) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440508	81939	18[+]	1300[a]	2.9		COPPER (CU) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440666	81940	120[+]	5000[s]	95		ZINC (ZN) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440473	81941		100			CHROMIUM (CR) DISSOLVED ANIONIC SPECIES	UG/L	Metal
7440508	81942	18[+]	1300[a]	2.9		COPPER (CU) DISSOLVED ANIONIC SPECIES	UG/L	Metal
7440666	81943	120[+]	5000[s]	95		ZINC (ZN) DISSOLVED ANIONIC SPECIES	UG/L	Metal
	82078				50[l]	TURBIDITY, FIELD	NTU	Physical
	82079				50[l]	TURBIDITY, LAB	NTU	Physical
88857	82226		7.0			2 SECONDARY BUTYL 4,6-DINITROPHENOL	UG/L	Pesticide
16887006	82295	860000	250000[s]			CHLORIDE DISSOLVED AS CL IN WATER	UG/L	General Inorganic
72435	82350		40			METHOXYCHLOR, DISSOLVED IN WATER	UG/L	Pesticide
72435	82351		40			METHOXYCHLOR, SUSPENDED IN WATER	UG/L	Pesticide
115297	82354	0.22		0.034		ENDOSULFAN, DISSOLVED IN WATER	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
115297	82355	0.22		0.034		ENDOSULFAN, SUSPENDED IN WATER	UG/L	Pesticide
57125	82573	0.022	0.2	0.001		CYANIDE/CHLORINATION IN WATER	MG/L	General Inorganic
1646873	82586		4.0			ALDICARB SULFOXIDE, WATER, TOTAL RECOVERABLE	UG/L	General Organic
1646884	82587		2.0			ALDICARB SULFONE, WHOLE WATER, TOTAL RECOVERABLE	UG/L	General Organic
23135220	82613		200			OXAMYL, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
1563662	82615		40			CARBOFURAN, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
116063	82619		3.0			ALDICARB, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
33213659	82624	0.22		0.034		ENDOSULFAN, BETA, WH WATER, TOTAL RECOVERABLE	UG/L	Pesticide
96128	82625		0.2			DIBROMOCHLOROPROPANE, WATER, TOTAL RECOVERABLE	UG/L	Pesticide
7440382	82702	360	50	69		ARSENIC, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440393	82703		2			BARIUM, FIELD ACIDIFIED, DECANTED, WATER	MG/L	Metal
7440417	82704	130*	4.0			BERYLLIUM, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440439	82705	3.9+	5.0	43		CADMIUM, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440473	82706		100			CHROMIUM, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440508	82708	18+	1300[a]	2.9		COPPER, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7439921	82711	82+	15[a]	220		LEAD, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7439976	82713	2.4	2.0	2.1		MERCURY, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440020	82715	1400+	100	75		NICKEL, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440224	82716	4.1+	100[s]	0.12		SILVER, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440666	82719	120+	5000[s]	95		ZINC, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal

Footnote Key:

*Insufficient Data to Develop Criteria. Value Presented is the L.O.E.L. - Lowest Observed Effect Level.

+Hardness Dependent Criteria (100 mg/L $CaCO_3$ Used).

***pH Dependent Criteria (7.8 pH Used).

=Rule of thumb criterion used by the NPS Air Quality Division for determining sensitivity to acid deposition.

^Freshwater bathing criterion, EPA geometric mean based on at least 5 samples equally spaced over a 30-day period; Enterococci marine water bathing criterion 35 CFU/100 ml.

#EPA freshwater aquatic life chronic criterion; marine criterion is ≤6.5, ≥8.5.

!Arizona state standard.

[a]EPA action level, 40 CFR 141.80.

[b]California and Florida state bathing water standards.

[c]A Compilation of Water Quality Goals, California Regional Water Quality Control Board Central Valley Region, Sacramento, California, September, 1991.

[n]Total coliform drinking water maximum contaminant level (1 cfu/100ml or 1 mpn/100ml) was not used in water quality criteria comparisons.

[p]Proposed Criterion.

[r]Average annual concentration assumed to produce a total body or organ dose of 4 mrem/year, 40 CFR 141.16.

[s]EPA National Secondary Drinking Water Regulation, 40 CFR 143.

[t]The maximum contaminant level for the sum of the concentrations of trihalomethanes is 100 µg/L, 40 CFR 141.12.

[u]Coldwater criterion one day minimum; warmwater criterion seven day mean minimum.

Appendix G

Inventory Data Evaluation and Analysis (IDEA)
Servicewide Inventory and Monitoring Program "Level I"
Parameter Groups

The following table provides the Servicewide Inventory and Monitoring Program's "Level I" water quality inventory parameter groups (National Park Service 1993). In order to determine the presence and/or absence of data for each of these parameter groups in the park, the parameter groups had to be defined by STORET parameter codes. This table provides the STORET codes and parameter descriptions for each parameter comprising one of the Servicewide Inventory and Monitoring Program's "Level I" water quality parameter groups. Additional parameters could have been incorporated into each group, but an effort was made to represent each group with the parameters deemed to most likely occur in STORET and parks. The Toxic Elements Parameter Group was defined as the EPA's Clean Water Act Section 304(a) Priority Toxic Pollutants (40 CFR 131.36). Parameters are listed in ascending order of STORET code within each parameter group. It is important to note that similar parameters often have non-consecutive codes. Consequently, scanning the entire list is necessary to find all the parameters of a particular type (eg. lead, copper, etc.). Refer to the Parameter Period of Record Tabulation to obtain the STORET code for any parameter measured in the park.

STORET Code	Water Temperature Parameter Group	C.A.S. Number
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	-
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	-
STORET Code	**Flow Parameter Group[1]**	**C.A.S. Number**
00056	FLOW RATE, GALLONS/DAY	-
00058	FLOW RATE, GALLONS/MIN.	-
00059	FLOW RATE, INSTANTANEOUS, GALLONS/MINUTE	-
00060	FLOW, STREAM, MEAN DAILY CFS	-
00061	FLOW, STREAM, INSTANTANEOUS CFS	-
00065	STAGE, STREAM (FEET)	-
00067	TIDE STAGE CODE	-
00072	STAGE, STREAM (METERS)	-

[1]Tide stage is included in the Flow Parameter Group for coastal parks.

STORET Code	Clarity/Turbidity Parameter Group	C.A.S. Number
00070	TURBIDITY, (JACKSON CANDLE UNITS)	-
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	-
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	-
00077	TRANSPARENCY, SECCHI DISC (INCHES)	-
00078	TRANSPARENCY, SECCHI DISC (METERS)	-
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	-
82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS NTU	-
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	-
STORET Code	**Conductivity Parameter Group**	**C.A.S. Number**
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	-
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	-
00096	SALINITY AT 25 DEGREES C (MG/ML)	-
00480	SALINITY - PARTS PER THOUSAND	-
STORET Code	**Dissolved Oxygen Parameter Group**	**C.A.S. Number**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	7782447
00300	OXYGEN, DISSOLVED (MG/L)	7782447
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	7782447
00389	OXYGEN, DISSOLVED, LAB ANAL. BY PROBE OF FIELD SAMPLE (MG/L)	7782447
STORET Code	**pH Parameter Group**	**C.A.S. Number**
00400	PH (STANDARD UNITS)	-
00403	PH, LAB (STANDARD UNITS)	-
00406	PH, FIELD (STANDARD UNITS)	-

STORET Code	Alkalinity Parameter Group	C.A.S. Number
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYSIS (µEQ/L)	471341
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	471341
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	77098
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	471341
00435	ACIDITY, TOTAL (MG/L AS CACO3)	471341
00440	BICARBONATE ION (MG/L AS HCO3)	71523
00445	CARBONATE ION (MG/L AS CO3)	3812326

STORET Code	Nitrate/Nitrogen Parameter Group	C.A.S. Number
00600	NITROGEN, TOTAL (MG/L AS N)	17778880
00602	NITROGEN, DISSOLVED (MG/L AS N)	17778880
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	17778880
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	17778880
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	17778880
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	17778880
00612	AMMONIA, UNIONZED (MG/L AS N)	7664417
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	17778880
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	17778880
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	17778880
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	17778880
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	17778880
00631	NITRITE PLUS NITRATE, DISSOLVED 1 DET. (MG/L AS N)	17778880
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	14798039
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	14798039
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	14797558
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	14797558
71855	NITRITE NITROGEN, TOTAL (MG/L AS NO2)	14797650
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	14797650

STORET Code	Phosphate/Phosphorus Parameter Group	C.A.S. Number
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	14265442
00655	PHOSPHATE, POLY (MG/L AS PO4)	14265442
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	14265442
00665	PHOSPHORUS, TOTAL (MG/L AS P)	7723140
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	7723140
00670	PHOSPHORUS, TOTAL ORGANIC (MG/L AS P)	7723140
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	7723140
70505	PHOSPHORUS, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	7723140
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	7723140

STORET Code	Sulfates/Total Dissolved Solids/Hardness Parameter Group	C.A.S. Number
00900	HARDNESS, TOTAL (MG/L AS CACO3)	471341
00945	SULFATE, TOTAL (MG/L AS SO4)	14808798
00946	SULFATE, DISSOLVED (MG/L AS SO4)	14808798
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	-

STORET Code	Chlorophyll Parameter Group	C.A.S. Number
32209	CHLOROPHYLL A (UG/L) FLUOROMETRIC CORRECTED	479618
32210	CHLOROPHYLL A (UG/L) TRICHROMATIC UNCORRECTED	479618
32211	CHLOROPHYLL A (UG/L) SPECTROPHOTOMETRIC ACID METH.	479618
32217	CHLOROPHYLL A (UG/L) FLUOROMETRIC UNCORRECTED	479618
32223	CHLOROPHYLL A (MG/M2) SPECTROPHOTOMETRIC CORRECTED	479618
32228	CHLOROPHYLL A (MG/M2) PERIPHYTON SPECTRO.	479618
32229	CHLOROPHYLL A (MG/M2) FLUOR. CORRECTED, SUBSTRATER	479618
32230	CHLOROPHYLL A (MG/L)	479618

STORET Code	Bacteria Parameter Group	C.A.S. Number
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	-
31501	COLIFORM, TOT, MEMBRANE FILTER, IMMED., M-ENDO MED,35C	-
31503	COLIFORM, TOT, MEMBRANE FILTER, DELAY, M-ENDO MED, 35C	-
31504	COLIFORM, TOT, MEMBRANE FILTER, IMMED., LES-ENDO AGAR, 35C	-
31505	COLIFORM, TOT, MPN, CONFIRMED TEST,35C(TUBE 31506)	-
31506	COLIFORM, TOT, MPN, CONFIRMED TEST, TUBE CONFIG.	-
31507	COLIFORM, TOT, MPN, COMPLETED TEST,35C(TUBE 31508)	-
31508	COLIFORM, TOT, MPN, COMPLETED TEST, TUBE CONFIG.	-
31613	FECAL COLIFORM, MEMBR, FILTER,M-FC AGAR,44.5C,24HR	-
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	-
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	-
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C	-
31617	FECAL COLIFORM, MPN,EIJKMAN TEST,44.5C(TUBE 31618)	-
31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	-
31648	E. COLI - MTEC-MF	-
31649	ENTEROCOCCI- ME-MF	-
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	-
31676	FECAL STREPTOCOCCI, MPN, KF BROTH, TUBE CONFIG.	-
31677	FECAL STREPTOCOCCI, MPN, AD-EVA, 35C (TUBE 31678)	-
31751	PLATE COUNT, TOTAL, TPC AGAR, 35C, 24 HRS	-
61214	FECAL STREPTOCOCCI, GENERAL #/100ML	-
61215	FECAL COLIFORM, GENERAL #/100ML	-

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants)	C.A.S. Number
00718	CYANIDE, WEAK ACID, DISSOC. WATER, WHOLE (UG/L)	57125
00719	CYANIDE, FREE, IN WATER & WASTEWATERS, HBG (UG/L)	57125
00720	CYANIDE, TOTAL (MG/L AS CN)	57125
00722	CYANIDE, FREE (AMENABLE TO CHLORINATION) (MG/L)	57125

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
00723	CYANIDE, DISSOLVED STD METHOD (UG/L)	57125
00724	CYANIDE COMPLEXED TO A RANGE OF COMPNDS (UG/L)	57125
00969	CHRYSOTILE ASBESTOS FIBERS/LITER	1332214
00973	AMPHIBOLE ASBESTOS FIBERS/LITER	1332214
00976	AMBIGUOUS ASBESTOS FIBERS/LITER	1332214
00977	NON-AMPHIBOLE NON-CHRYSOTILE ASBESTOS FIBERS/LITER	1332214
00978	ARSENIC, TOTAL RECOVERABLE IN WATER AS AS	7440382
00981	SELENIUM, TOTAL RECOVERABLE IN WATER AS SE (UG/L)	7782492
00982	THALLIUM, TOTAL RECOVERABLE IN WATER AS (UG/L)	7440280
00990	SELENITE, TOTAL RECOVERABLE INORGANIC (UG/L)	7782492
00991	ARSENIC, TOTAL RECOVER. TRIVALENT INORGANIC (UG/L)	7440382
00995	ARSENIC, INORGANIC DISSOLVED (UG/L AS AS)	7440382
00996	ARSENIC, INORGANIC SUSPENDED (UG/L AS AS)	7440382
00997	ARSENIC, INORGANIC TOTAL (UG/L AS AS)	7440382
00998	BERYLLIUM, TOTAL RECOVERABLE IN WATER AS BE (UG/L)	7440417
01000	ARSENIC, DISSOLVED (UG/L AS AS)	7440382
01001	ARSENIC, SUSPENDED (UG/L AS AS)	7440382
01002	ARSENIC, TOTAL (UG/L AS AS)	7440382
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	7440417
01011	BERYLLIUM, SUSPENDED (UG/L AS BE)	7440417
01012	BERYLLIUM, TOTAL (UG/L AS BE)	7440417
01025	CADMIUM, DISSOLVED (UG/L AS CD)	7440439
01026	CADMIUM, SUSPENDED (UG/L AS CD)	7440439
01027	CADMIUM, TOTAL (UG/L AS CD)	7440439
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	7440473
01031	CHROMIUM, SUSPENDED (UG/L AS CR)	7440473
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	7440473
01033	CHROMIUM, TRI-VAL (UG/L AS CR)	16065831
01034	CHROMIUM, TOTAL (UG/L AS CR)	7440473

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
01040	COPPER, DISSOLVED (UG/L AS CU)	7440508
01041	COPPER, SUSPENDED (UG/L AS CU)	7440508
01042	COPPER, TOTAL (UG/L AS CU)	7440508
01049	LEAD, DISSOLVED (UG/L AS PB)	7439921
01050	LEAD, SUSPENDED (UG/L AS PB)	7439921
01051	LEAD, TOTAL (UG/L AS PB)	7439921
01057	THALLIUM, DISSOLVED (UG/L AS TL)	7440280
01058	THALLIUM, SUSPENDED (UG/L AS TL)	7440280
01059	THALLIUM, TOTAL (UG/L AS TL)	7440280
01065	NICKEL, DISSOLVED (UG/L AS NI)	7440020
01066	NICKEL, SUSPENDED (UG/L AS NI)	7440020
01067	NICKEL, TOTAL (UG/L AS NI)	7440020
01074	NICKEL, TOTAL RECOVERABLE IN WATER AS NI (UG/L)	7440020
01075	SILVER, DISSOLVED (UG/L AS AG)	7440224
01076	SILVER, SUSPENDED (UG/L AS AG)	7440224
01077	SILVER, TOTAL (UG/L AS AG)	7440224
01079	SILVER, TOTAL RECOVERABLE IN WATER AS AG (UG/L)	7440224
01089	COPPER AS SUSPENDED BLACK OXIDE IN WATER (MG/L)	7440508
01090	ZINC, DISSOLVED (UG/L AS ZN)	7440666
01091	ZINC, SUSPENDED (UG/L ZN)	7440666
01092	ZINC, TOTAL (UG/L AS ZN)	7440666
01094	ZINC, TOTAL RECOVERABLE IN WATER AS ZN (UG/L)	7440666
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	7440360
01096	ANTIMONY, SUSPENDED (UG/L AS SB)	7440360
01097	ANTIMONY, TOTAL (UG/L AS SB)	7440360
01113	CADMIUM, TOTAL RECOVERABLE IN WATER AS CD (UG/L)	7440439
01114	LEAD, TOTAL RECOVERABLE IN WATER AS PB (UG/L)	7439921
01118	CHROMIUM, TOTAL RECOVERABLE IN WATER AS CR (UG/L)	7440473
01119	COPPER,TOTAL RECOVERABLE IN WATER AS CU (UG/L)	7440508

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
01124	THALLIUM, ACID SOLUBLE, WATER, WHOLE (UG/L)	7440280
01128	THALLIUM,TOTAL RECOVERABLE <95%, UG/L AS TL	7440280
01138	SELENIUM, IN WATER, LBS/DAY	7782492
01145	SELENIUM, DISSOLVED (UG/L AS SE)	7782492
01146	SELENIUM, SUSPENDED (UG/L AS SE)	7782492
01147	SELENIUM, TOTAL (UG/L AS SE)	7782492
01167	SELENIUM, ACID SOLUBLE, WATER, WHOLE (UG/L)	7782492
01220	CHROMIUM, HEXAVALENT, DISSOLVED IN (UG/L AS CR)	18540299
01252	ARSENIC, LB/DAY/CFS STREAM FLOW	7440382
01253	CADMIUM, LB/DAY/CFS STREAM FLOW	7440439
01254	CHROMIUM, TOTAL (LBS/DAY/CFS STREAM FLOW)	7740473
01255	CHROMIUM, HEXAVALENT, LB/DAY/CFS STREAM FLOW	18540299
01256	COPPER, LB/DAY/CFS STREAM FLOW	7440508
01257	CYANIDE LB/DAY/CFS STREAM FLOW	57125
01259	LEAD, LB/DAY/CFS STREAM FLOW	7439921
01260	MERCURY, LB/DAY/CFS STREAM FLOW	7439976
01261	NICKEL, LB/DAY/CFS STREAM FLOW	7440020
01263	SILVER, LB/DAY/CFS STREAM FLOW	7440224
01264	ZINC LB/DAY/CFS STREAM FLOW	7440666
01268	ANTIMONY, (SB), WATER, TOTAL RECOVERABLE (UG/L)	7440360
01291	CYANIDE, FILTERABLE, TOTAL IN WATER (UG/L)	57125
01303	ZINC, POTENTIALLY DISSOLVED WATER (MG/L)	7440666
01304	SILVER, POTENTIALLY DISSOLVED WATER (MG/L)	7440224
01306	COPPER, POTENTIALLY DISSOLVED WATER (MG/L)	7440508
01307	CHROMIUM, HEXAVALENT, POTENT. DISS. WATER (MG/L)	18540299
01309	ARSENIC, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440382
01312	BERYLLIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440417
01313	CADMIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440439

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
01314	CHROMIUM, TRIVALENT, POTENT., DISS., WATER (MG/L)	16065831
01318	LEAD, POTENTIALLY, DISSOLVED, WATER (MG/L)	7439921
01321	MERCURY, POTENTIALLY, DISSOLVED, WATER (MG/L)	7439976
01322	NICKEL, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440020
01323	SELENIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7782492
01324	THALLIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440280
01523	SILVER, IONIC (UG/L)	7440224
22675	SELENIUM, DISSOLVED ORGANIC (UG/L)	7782492
22676	SELENIUM, HEXAVALENT, DISSOLVED (UG/L)	7782492
22677	SELENIUM, TETRAVALENT, DISSOLVED	7782492
22678	ARSENIC, DISSOLVED ORGANIC (UG/L)	7440382
22679	ARSENIC, PENTAVALENT, DISSOLVED (UG/L)	7440382
22680	ARSENIC, TRIVALENT, DISSOLVED (UG/L)	7440382
30197	2-CHLOROETHYLVINYL ETHER,WATER,WHL,RECOVER (UG/L)	110758
30201	CHLOROMETHANE, WATER, WHOLE, RECOVERABLE (UG/L)	74873
30202	BROMOMETHANE, WATER, WHOLE, RECOVERABLE (UG/L)	74839
32003	CARBON CHLOROFORM AND CARBON ALCOHOL EXT. (UG/L)	67663
32005	CARBON CHLOROFORM EXTRACTABLES (UG/L)	67663
32021	CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLE (UG/L)	67663
32022	CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES (UG/L)	67663
32101	BROMODICHLOROMETHANE, WHOLE WATER (UG/L)	75274
32102	CARBON TETRACHLORIDE, WHOLE WATER, (UG/L)	56235
32103	1,2-DICHLOROETHANE, WHOLE WATER (UG/L)	107062
32104	BROMOFORM, WHOLE WATER, (UG/L)	75252
32105	DIBROMOCHLOROMETHANE, WHOLE WATER, (UG/L)	124481
32106	CHLOROFORM, WHOLE WATER (UG/L)	67663
32260	CARBON TETRACHLORIDE EXTRACTABLES (MG/L)	56235
32270	CHLOROFORM EXTRACTABLES TOTAL IN MG PER LITER	67663

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	108883
34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	71432
34198	BHC-DELTA, WATER, WHOLE (LBS/DAY)	319868
34200	ACENAPHTHYLENE, TOTAL (UG/L)	208968
34201	ACENAPHTHYLENE, DISSOLVED (UG/L)	208968
34202	ACENAPHTHYLENE, SUSPENDED (UG/L)	208968
34205	ACENAPHTHENE, TOTAL (UG/L)	83329
34206	ACENAPHTHENE, DISSOLVED (UG/L)	83329
34207	ACENAPHTHENE, SUSPENDED (UG/L)	83329
34210	ACROLEIN, TOTAL (UG/L)	107028
34211	ACROLEIN, DISSOLVED (UG/L)	107028
34212	ACROLEIN, SUSPENDED (UG/L)	107028
34215	ACRYLONITRILE, TOTAL (UG/L)	107131
34216	ACRYLONITRILE, DISSOLVED (UG/L)	107131
34217	ACRYLONITRILE, SUSPENDED (UG/L)	107131
34220	ANTHRACENE, TOTAL (UG/L)	120127
34221	ANTHRACENE, DISSOLVED (UG/L)	120127
34222	ANTHRACENE, SUSPENDED (UG/L)	120127
34225	ASBESTOS (FIBROUS) TOTAL (UG/L)	1332214
34226	ASBESTOS (FIBROUS) DISSOLVED (UG/L)	1332214
34227	ASBESTOS (FIBROUS) SUSPENDED (UG/L)	1332214
34230	BENZO(B)FLUORANTHENE, WHOLE WATER (UG/L)	205992
34231	BENZO(B)FLUORANTHENE, DISSOLVED (UG/L)	205992
34232	BENZO(B)FLUORANTHENE, SUSPENDED (UG/L)	205992
34235	BENZENE, DISSOLVED (UG/L)	71432
34236	BENZENE, SUSPENDED (UG/L)	71432
34239	BENZIDINE, DISSOLVED (UG/L)	92875
34240	BENZIDINE, SUSPENDED (UG/L)	92875

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34242	BENZO(K)FLUORANTHENE, TOTAL (UG/L)	207089
34243	BENZO(K)FLUORANTHENE, DISSOLVED (UG/L)	207089
34244	BENZO(K)FLUORANTHENE, SUSPENDED (UG/L)	207089
34247	BENZO-A-PYRENE, TOTAL (UG/L)	50328
34248	BENZO-A-PYRENE, DISSOLVED (UG/L)	50328
34249	BENZO-A-PYRENE, SUSPENDED (UG/L)	50328
34253	A-BHC-ALPHA, DISSOLVED (UG/L)	319846
34254	A-BHC-ALPHA, SUSPENDED (UG/L)	319846
34255	B-BHC-BETA, DISSOLVED (UG/L)	319857
34256	B-BHC-BETA, SUSPENDED (UG/L)	319857
34259	DELTA BENZENE HEXACHLORIDE, TOTAL (UG/L)	319868
34260	DELTA BENZENE HEXACHLORIDE, DISSOLVED (UG/L)	319868
34261	DELTA BENZENE HEXACHLORIDE, SUSPENDED (UG/L)	319868
34265	R-BHC (LINDANE) GAMMA, DISSOLVED (UG/L)	58899
34266	R-BHC (LINDANE) GAMMA, SUSPENDED (UG/L)	58899
34273	BIS (2-CHLOROETHYL) ETHER, TOTAL (UG/L)	111444
34274	BIS (2-CHLOROETHYL) ETHER, DISSOLVED (UG/L)	111444
34275	BIS (2-CHLOROETHYL) ETHER, SUSPENDED (UG/L)	111444
34278	BIS (2-CHLOROETHOXY) METHANE, TOTAL (UG/L)	111911
34279	BIS (2-CHLOROETHOXY) METHANE, DISSOLVED (UG/L)	111911
34280	BIS (2-CHLOROETHOXY) METHANE, SUSPENDED (UG/L)	111911
34288	BROMOFORM, DISSOLVED (UG/L)	75252
34289	BROMOFORM, SUSPENDED (UG/L)	75252
34292	N-BUTYL BENZYL PHTHALATE, WHOLE WATER (UG/L)	85687
34293	N-BUTYL BENZYL PHTHALATE, DISSOLVED (UG/L)	85687
34294	N-BUTYL BENZYL PHTHALATE, SUSPENDED (UG/L)	85687
34297	CARBON TETRACHLORIDE, DISSOLVED (UG/L)	56235
34298	CARBON TETRACHLORIDE, SUSPENDED (UG/L)	56235

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34301	CHLOROBENZENE, TOTAL (UG/L)	108907
34302	CHLOROBENZENE, DISSOLVED (UG/L)	108907
34303	CHLOROBENZENE, SUSPENDED (UG/L)	108907
34306	CHLORODIBROMOMETHANE, TOTAL (UG/L)	124481
34307	CHLORODIBROMOMETHANE, DISSOLVED (UG/L)	124481
34308	CHLORODIBROMOMETHANE, SUSPENDED (UG/L)	124481
34311	CHLOROETHANE, TOTAL (UG/L)	75003
34312	CHLOROETHANE, DISSOLVED (UG/L)	75003
34313	CHLOROETHANE, SUSPENDED (UG/L)	75003
34316	CHLOROFORM, DISSOLVED (UG/L)	67663
34317	CHLOROFORM, SUSPENDED (UG/L)	67663
34320	CHRYSENE, TOTAL (UG/L)	218019
34321	CHRYSENE, DISSOLVED (UG/L)	218019
34322	CHRYSENE, SUSPENDED (UG/L)	218019
34325	CYANIDE, SUSPENDED (MG/L)	57125
34327	DI-N-BUTYL PHTHALATE, DISSOLVED (UG/L)	84742
34328	DICHLOROBROMOMETHANE, DISSOLVED (UG/L)	75274
34329	DICHLOROBROMOMETHANE, SUSPENDED (UG/L)	75274
34336	DIETHYL PHTHALATE, TOTAL (UG/L)	84662
34337	DIETHYL PHTHALATE, DISSOLVED (UG/L)	84662
34338	DIETHYL PHTHALATE, SUSPENDED (UG/L)	84662
34341	DIMETHYL PHTHALATE, TOTAL (UG/L)	131113
34342	DIMETHYL PHTHALATE, DISSOLVED (UG/L)	131113
34343	DIMETHYL PHTHALATE, SUSPENDED (UG/L)	131113
34346	1,2-DIPHENYLHYDRAZINE, TOTAL (UG/L)	122667
34347	1,2-DIPHENYLHYDRAZINE, DISSOLVED (UG/L)	122667
34348	1,2-DIPHENYLHYDRAZINE, SUSPENDED (UG/L)	122667
34351	ENDOSULFAN SULFATE, TOTAL (UG/L)	1031078

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34352	ENDOSULFAN SULFATE, DISSOLVED (UG/L)	1031078
34353	ENDOSULFAN SULFATE, SUSPENDED (UG/L)	1031078
34356	ENDOSULFAN, BETA, TOTAL (UG/L)	33213659
34357	ENDOSULFAN, BETA, DISSOLVED (UG/L)	33213659
34358	ENDOSULFAN, BETA, SUSPENDED (UG/L)	33213659
34361	ENDOSULFAN, ALPHA, TOTAL (UG/L)	959988
34362	ENDOSULFAN, ALPHA, DISSOLVED (UG/L)	959988
34363	ENDOSULFAN, ALPHA, SUSPENDED (UG/L)	959988
34371	ETHYLBENZENE, TOTAL (UG/L)	100414
34372	ETHYLBENZENE, DISSOLVED (UG/L)	100414
34373	ETHYLBENZENE, SUSPENDED (UG/L)	100414
34376	FLUORANTHENE, TOTAL (UG/L)	206440
34377	FLUORANTHENE, DISSOLVED (UG/L)	206440
34378	FLUORANTHENE, SUSPENDED (UG/L)	206440
34381	FLUORENE, TOTAL (UG/L)	86737
34382	FLUORENE, DISSOLVED (UG/L)	86737
34383	FLUORENE, SUSPENDED (UG/L)	86737
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL (UG/L)	77474
34387	HEXACHLOROCYCLOPENTADIENE, DISSOLVED (UG/L)	77474
34388	HEXACHLOROCYCLOPENTADIENE, SUSPENDED (UG/L)	77474
34391	HEXACHLOROBUTADIENE, TOTAL (UG/L)	87683
34392	HEXACHLOROBUTADIENE, DISSOLVED (UG/L)	87683
34393	HEXACHLOROBUTADIENE, SUSPENDED (UG/L)	87683
34396	HEXACHLOROETHANE, TOTAL (UG/L)	67721
34397	HEXACHLOROETHANE, DISSOLVED (UG/L)	67721
34398	HEXACHLOROETHANE, SUSPENDED (UG/L)	67721
34401	HEXACHLOROBENZENE, DISSOLVED (UG/L)	118741
34402	HEXACHLOROBENZENE, SUSPENDED (UG/L)	118741

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34403	INDENO (1,2,3-CD) PYRENE, TOTAL (UG/L)	193395
34404	INDENO (1,2,3-CD) PYRENE, DISSOLVED (UG/L)	193395
34405	INDENO (1,2,3-CD) PYRENE, SUSPENDED (UG/L)	193395
34408	ISOPHORONE, TOTAL (UG/L)	78591
34409	ISOPHORONE, DISSOLVED (UG/L)	78591
34410	ISOPHORONE, SUSPENDED (UG/L)	78591
34413	METHYL BROMIDE, TOTAL (UG/L)	74839
34414	METHYL BROMIDE, DISSOLVED (UG/L)	74839
34415	METHYL BROMIDE, SUSPENDED (UG/L)	74839
34418	METHYL CHLORIDE, TOTAL (UG/L)	74873
34419	METHYL CHLORIDE, DISSOLVED (UG/L)	74873
34420	METHYL CHLORIDE, SUSPENDED (UG/L)	74873
34423	METHYLENE CHLORIDE, TOTAL (UG/L)	75092
34424	METHYLENE CHLORIDE, DISSOLVED (UG/L)	75092
34425	METHYLENE CHLORIDE, SUSPENDED (UG/L)	75092
34428	N-NITROSODI-N-PROPYLAMINE, TOTAL (UG/L)	621647
34429	N-NITROSODI-N-PROPYLAMINE, DISSOLVED (UG/L)	621647
34430	N-NITROSODI-N-PROPYLAMINE, SUSPENDED (UG/L)	621647
34433	N-NITROSODIPHENYLAMINE, TOTAL (UG/L)	86306
34434	N-NITROSODIPHENYLAMINE, DISSOLVED (UG/L)	86306
34435	N-NITROSODIPHENYLAMINE, SUSPENDED (UG/L)	86306
34438	N-NITROSODIMETHYLAMINE, TOTAL (UG/L)	62759
34439	N-NITROSODIMETHYLAMINE, DISSOLVED (UG/L)	62759
34440	N-NITROSODIMETHYLAMINE, SUSPENDED (UG/L)	62759
34443	NAPHTHALENE, DISSOLVED (UG/L)	91203
34444	NAPHTHALENE, SUSPENDED (UG/L)	91203
34447	NITROBENZENE, TOTAL (UG/L)	98953
34448	NITROBENZENE, DISSOLVED (UG/L)	98953

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34449	NITROBENZENE, SUSPENDED (UG/L)	98953
34452	PARACHLOROMETA CRESOL, TOTAL (UG/L)	59507
34453	PARACHLOROMETA CRESOL, DISSOLVED (UG/L)	59507
34454	PARACHLOROMETA CRESOL, SUSPENDED (UG/L)	59507
34457	PCB - 1242, DISSOLVED (UG/L)	53469219
34458	PCB - 1242, SUSPENDED (UG/L)	53469219
34459	PCP (PENTACHLOROPHENOL), DISSOLVED (UG/L)	87865
34460	PCP (PENTACHLOROPHENOL), SUSPENDED (UG/L)	87865
34461	PHENANTHRENE, TOTAL (UG/L)	85018
34462	PHENANTHRENE, DISSOLVED (UG/L)	85018
34463	PHENANTHRENE, SUSPENDED (UG/L)	85018
34466	PHENOL, DISSOLVED (UG/L)	108952
34467	PHENOL, SUSPENDED (UG/L)	108952
34469	PYRENE, TOTAL (UG/L)	129000
34470	PYRENE, DISSOLVED (UG/L)	129000
34471	PYRENE, SUSPENDED (UG/L)	129000
34475	TETRACHLOROETHYLENE, TOTAL (UG/L)	127184
34476	TETRACHLOROETHYLENE, DISSOLVED (UG/L)	127184
34477	TETRACHLOROETHYLENE, SUSPENDED (UG/L)	127184
34481	TOLUENE, DISSOLVED (UG/L)	108883
34482	TOLUENE, SUSPENDED (UG/L)	108883
34485	TRICHLOROETHYLENE, DISSOLVED (UG/L)	79016
34486	TRICHLOROETHYLENE, SUSPENDED (UG/L)	79016
34493	VINYL CHLORIDE, DISSOLVED (UG/L)	75014
34494	VINYL CHLORIDE, SUSPENDED (UG/L)	75014
34496	1,1-DICHLOROETHANE, TOTAL (UG/L)	75343
34497	1,1-DICHLOROETHANE, DISSOLVED (UG/L)	75343
34498	1,1-DICHLOROETHANE, SUSPENDED (UG/L)	75343

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34501	1,1-DICHLOROETHYLENE, TOTAL (UG/L)	75354
34502	1,1-DICHLOROETHYLENE, DISSOLVED (UG/L)	75354
34503	1,1-DICHLOROETHYLENE, SUSPENDED (UG/L)	75354
34506	1,1,1-TRICHLOROETHANE, TOTAL (UG/L)	71556
34507	1,1,1-TRICHLOROETHANE, DISSOLVED (UG/L)	71556
34508	1,1,1-TRICHLOROETHANE, SUSPENDED (UG/L)	71556
34511	1,1,2-TRICHLOROETHANE, TOTAL (UG/L)	79005
34512	1,1,2-TRICHLOROETHANE, DISSOLVED (UG/L)	79005
34513	1,1,2-TRICHLOROETHANE, SUSPENDED (UG/L)	79005
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (UG/L)	79345
34517	1,1,2,2-TETRACHLOROETHANE, DISSOLVED (UG/L)	79345
34518	1,1,2,2-TETRACHLOROETHANE, SUSPENDED (UG/L)	79345
34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, TOTAL (UG/L)	191242
34522	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, DISS. (UG/L)	191242
34523	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, SUSP. (UG/L)	191242
34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, TOTAL (UG/L)	56553
34527	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, DISS. (UG/L)	56553
34528	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, SUSP. (UG/L)	56553
34531	1,2-DICHLOROETHANE, TOTAL (UG/L)	107062
34532	1,2-DICHLOROETHANE, DISSOLVED (UG/L)	107062
34533	1,2-DICHLOROETHANE, SUSPENDED (UG/L)	107062
34536	1,2-DICHLOROBENZENE, TOTAL (UG/L)	95501
34537	1,2-DICHLOROBENZENE, DISSOLVED (UG/L)	95501
34538	1,2-DICHLOROBENZENE, SUSPENDED (UG/L)	95501
34541	1,2-DICHLOROPROPANE, TOTAL (UG/L)	78875
34542	1,2-DICHLOROPROPANE, DISSOLVED (UG/L)	78875
34543	1,2-DICHLOROPROPANE, SUSPENDED (UG/L)	78875
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER (UG/L)	156605

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34547	TRANS-1,2-DICHLOROETHENE, DISSOLVED (UG/L)	156605
34548	TRANS-1,2-DICHLOROETHENE, SUSPENDED (UG/L)	156605
34551	1,2,4-TRICHLOROBENZENE, TOTAL (UG/L)	120821
34552	1,2,4-TRICHLOROBENZENE, DISSOLVED (UG/L)	120821
34553	1,2,4-TRICHLOROBENZENE, SUSPENDED (UG/L)	120821
34556	1,2,5,6-DIBENZANTHRACENE, TOTAL (UG/L)	53703
34557	1,2,5,6-DIBENZANTHRACENE, DISSOLVED (UG/L)	53703
34558	1,2,5,6-DIBENZANTHRACENE, SUSPENDED (UG/L)	53703
34561	1,3-DICHLOROPROPENE, TOTAL (UG/L)	542756
34562	1,3-DICHLOROPROPENE, DISSOLVED (UG/L)	542756
34563	1,3-DICHLOROPROPENE, SUSPENDED (UG/L)	542756
34566	1,3-DICHLOROBENZENE, TOTAL (UG/L)	541731
34567	1,3-DICHLOROBENZENE, DISSOLVED (UG/L)	541731
34568	1,3-DICHLOROBENZENE, SUSPENDED (UG/L)	541731
34571	1,4-DICHLOROBENZENE, TOTAL (UG/L)	106467
34572	1,4-DICHLOROBENZENE, DISSOLVED (UG/L)	106467
34573	1,4-DICHLOROBENZENE, SUSPENDED (UG/L)	106467
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (UG/L)	110758
34577	2-CHLOROETHYL VINYL ETHER, DISSOLVED (UG/L)	110758
34578	2-CHLOROETHYL VINYL ETHER, SUSPENDED (UG/L)	110758
34581	2-CHLORONAPHTHALENE, TOTAL (UG/L)	91587
34582	2-CHLORONAPHTHALENE, DISSOLVED (UG/L)	91587
34583	2-CHLORONAPHTHALENE, SUSPENDED (UG/L)	91587
34586	2-CHLOROPHENOL, TOTAL (UG/L)	95578
34587	2-CHLOROPHENOL, DISSOLVED (UG/L)	95578
34588	2-CHLOROPHENOL, SUSPENDED (UG/L)	95578
34591	2-NITROPHENOL, TOTAL (UG/L)	88755
34592	2-NITROPHENOL, DISSOLVED (UG/L)	88755

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34593	2-NITROPHENOL, SUSPENDED (UG/L)	88755
34596	DI-N-OCTYL PHTHALATE, TOTAL (UG/L)	117840
34597	DI-N-OCTYL PHTHALATE, DISSOLVED (UG/L)	117840
34598	DI-N-OCTYL PHTHALATE, SUSPENDED (UG/L)	117840
34601	2,4-DICHLOROPHENOL, TOTAL (UG/L)	120832
34602	2,4-DICHLOROPHENOL, DISSOLVED (UG/L)	120832
34603	2,4-DICHLOROPHENOL, SUSPENDED (UG/L)	120832
34606	2,4-DIMETHYLPHENOL, TOTAL (UG/L)	105679
34607	2,4-DIMETHYLPHENOL, DISSOLVED (UG/L)	105679
34608	2,4-DIMETHYLPHENOL, SUSPENDED (UG/L)	105679
34611	2,4-DINITROTOLUENE, TOTAL (UG/L)	121142
34612	2,4-DINITROTOLUENE, DISSOLVED (UG/L)	121142
34613	2,4-DINITROTOLUENE, SUSPENDED (UG/L)	121142
34616	2,4-DINITROPHENOL, TOTAL (UG/L)	51285
34617	2,4-DINITROPHENOL, DISSOLVED (UG/L)	51285
34618	2,4-DINITROPHENOL, SUSPENDED (UG/L)	51285
34621	2,4,6-TRICHLOROPHENOL, TOTAL (UG/L)	88062
34622	2,4,6-TRICHLOROPHENOL, DISSOLVED (UG/L)	88062
34623	2,4,6-TRICHLOROPHENOL, SUSPENDED (UG/L)	88062
34626	2,6-DINITROTOLUENE, TOTAL (UG/L)	606202
34627	2,6-DINITROTOLUENE, DISSOLVED (UG/L)	606202
34628	2,6-DINITROTOLUENE, SUSPENDED (UG/L)	606202
34631	3,3'-DICHLOROBENZIDINE, TOTAL (UG/L)	91941
34632	3,3'-DICHLOROBENZIDINE, DISSOLVED (UG/L)	91941
34633	3,3'-DICHLOROBENZIDINE, SUSPENDED (UG/L)	91941
34636	4-BROMOPHENYL PHENYL ETHER, TOTAL (UG/L)	101553
34637	4-BROMOPHENYL PHENYL ETHER, DISSOLVED (UG/L)	101553
34638	4-BROMOPHENYL PHENYL ETHER, SUSPENDED (UG/L)	101553

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34641	4-CHLOROPHENYL PHENYL ETHER, TOTAL (UG/L)	7005723
34642	4-CHLOROPHENYL PHENYL ETHER, DISSOLVED (UG/L)	7005723
34643	4-CHLOROPHENYL PHENYL ETHER, SUSPENDED (UG/L)	7005723
34646	4-NITROPHENOL, TOTAL (UG/L)	100027
34647	4-NITROPHENOL, DISSOLVED (UG/L)	100027
34648	4-NITROPHENOL, SUSPENDED (UG/L)	100027
34651	P,P'-DDD, DISSOLVED (UG/L)	72548
34652	P,P'-DDD, SUSPENDED (UG/L)	72548
34653	P,P'-DDE, DISSOLVED (UG/L)	72559
34654	P,P'-DDE, SUSPENDED (UG/L)	72559
34655	P,P'-DDT, DISSOLVED (UG/L)	50293
34656	P,P'-DDT, SUSPENDED (UG/L)	50293
34657	DNOC (4,6-DINITRO-ORTHO-CRESOL), TOTAL (UG/L)	534521
34658	DNOC (4,6-DINITRO-ORTHO-CRESOL), DISSOLVED (UG/L)	534521
34659	DNOC (4,6-DINITRO-ORTHO-CRESOL), SUSPENDED (UG/L)	534521
34662	PCB - 1221, DISSOLVED (UG/L)	11104282
34663	PCB - 1221, SUSPENDED (UG/L)	11104282
34665	PCB - 1232, DISSOLVED (UG/L)	11141165
34666	PCB - 1232, SUSPENDED (UG/L)	11141165
34671	PCB - 1016, TOTAL (UG/L)	12674112
34672	PCB - 1016, DISSOLVED (UG/L)	12674112
34673	PCB - 1016, SUSPENDED (UG/L)	12674112
34675	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD),TOT(UG/L)	1746016
34676	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)DISS(UG/L)	1746016
34677	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)SUSP(UG/L)	1746016
34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTAL (UG/L)	108952
34696	NAPHTHALENE, TOTAL (UG/L)	91203
34750	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)TOT(PG/L)	1746016

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34751	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)DISS(PG/L)	1746016
34752	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)SUSP(PG/L)	1746016
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE (UG/L)	87865
39039	HEXACHLOROBENZENE WATER SAMPLE,ELECTRON CPT (UG/L)	118741
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER (UG/L)	117817
39103	BIS(2-ETHYLHEXYL) PHTHALATE, DISSOLVED, (UG/L)	117817
39104	BIS(2-ETHYLHEXYL) PHTHALATE, SUSPENDED, (UG/L)	117817
39107	PHTHALATES,DIETHYLHEXYL SUS.FRAC.WTR DWT (MG/KG)	117817
39110	DI-N-BUTYL PHTHALATE, WHOLE WATER (UG/L)	84742
39114	DI-N-BUTYL PHTHALATE, SUSPENDED (UG/L)	84742
39115	PHTHALATES,DIBUTYL SUS.FRAC.WATER DWT (UG/KG)	84742
39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	92875
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE (UG/L)	75014
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE (UG/L)	79016
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	50293
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	72548
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	72559
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	309002
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	309002
39332	ALDRIN IN SUSP. FRAC. OF WAT. SAMP. (UG/L)	309002
39336	BHC-ALPHA, WATER, WHOLE (LBS/DAY)	319846
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	319846
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	319857
39340	GAMMA-BHC(LINDANE), WHOLE WATER (UG/L)	58899
39341	GAMMA-BHC(LINDANE), DISSOLVED (UG/L)	58899
39342	GAMMA-BHC(LINDANE), SUSPENDED (UG/L)	58899
39344	BHC-GAMMA, WATER, WHOLE (LBS/DAY)	58899
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATER (UG/L)	57749

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
39352	CHLORDANE(TECH MIX & METABS), DISSOLVED (UG/L)	57749
39353	CHLORDANE(TECH MIX & METABS), SUSPENDED (UG/L)	57749
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	72548
39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	72548
39362	DDD IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	72548
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	72559
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	72559
39367	DDE IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	72559
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	50293
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	50293
39372	DDT IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	50293
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	60571
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	60571
39382	DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	60571
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	72208
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	72208
39392	ENDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	72208
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	8001352
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	8001352
39402	TOXAPHENE IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	8001352
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	76448
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	76448
39412	HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	76448
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	1024573
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT. SAM. (UG/L)	1024573
39422	HEPTACHLOR EPOXIDE IN SUSP. FRAC. WAT. SAM. (UG/L)	1024573
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE (UG/L)	11104282
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE (UG/L)	11141165

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE (UG/L)	53469219
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE (UG/L)	12672296
39501	PCB - 1248 IN FILT. FRAC. OF WATER SAMPLE (UG/L)	12672296
39502	PCB - 1248 IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	12672296
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE (UG/L)	11097691
39505	PCB - 1254 IN FILT. FRAC. OF WATER SAMPLE (UG/L)	11097691
39506	PCB - 1254 IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	11097691
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE (UG/L)	11096825
39509	PCB - 1260 IN FILT. FRAC. OF WATER SAMPLE (UG/L)	11096825
39510	PCB - 1260 IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	11096825
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	118741
39702	HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE (UG/L)	87683
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	58899
39920	DNOC IN WHOLE WATER SAMPLE (UG/L)	534521
46322	LINDANE PLUS ISOMERS IN WHOLE WATER SAMPLE (UG/L)	58899
46323	DELTA-BHC IN WHOLE WATER SAMPLE (UG/L)	319868
46326	HEPTACHLOR AND METABOLITES IN WH. H2O SAMP. (UG/L)	76448
46479	CYANIDE, DISSOLVED, WATER (UG/L)	57125
46551	ARSENIC, FIELD ACIDIFIED W/HNO3, LAB FILT. (UG/L)	7440382
46559	CADMIUM, FIELD ACIDIFIED-HNO3-LAB FILTER (UG/L-CD)	7440439
46560	CHROMIUM, FIELD ACIDIFIED-HN03-LAB FILT. (UG/L-CR)	7440473
46562	COPPER, FIELD ACIDIFIED-HNO3-LAB FILTER. (UG/L-CU)	7440508
46564	LEAD, FIELD ACIDIFIED-HNO3-LAB FILTERED (UG/L-PB)	7439921
46566	SILVER, FIELD ACIDIFIED-HNO3-LAB FILTER.(UG/L-AG)	7440224
46567	ZINC, EXTRACT. FIELD ACID W/HNO3, LAB FILT. (UG/L)	7440666
70012	PARACHLOROMETA CRESOL, WATER, WHOLE (LBS/DAY)	59507
70017	HEXACHLOROCYCLOPENTADIENE, WATER, WHOLE (LBS/DAY)	77474
70021	LEAD, (TCLP), WATER, TOTAL (MG/L)	7439921

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
71890	MERCURY, DISSOLVED (UG/L AS HG)	7439976
71895	MERCURY, SUSPENDED (UG/L AS HG)	7439976
71900	MERCURY, TOTAL (UG/L AS HG)	7439976
71901	MERCURY, TOTAL RECOVERABLE IN WATER AS HG (UG/L)	7439976
71946	CADMIUM, EXTRACTABLE (UG/L AS CD)	7440439
71947	CHROMIUM, EXTRACTABLE (UG/L AS CR)	7440473
71949	LEAD, EXTRACTABLE (UG/L AS PB)	7439921
71950	ZINC, EXTRACTABLE (UG/L AS ZN)	7440666
71951	COPPER, EXTRACTABLE (UG/L AS CU)	7440508
73063	CHLOROGUAIACOL,4-, TOTAL, WATER (UG/L)	16766306
73522	PROPANE, 2,2'-OXYBIS(1-CHLORO)- TOTAL (UG/L)	108601
77163	1,3-DICHLOROPROPENE-1, WHOLE WATER (UG/L)	542756
77354	1,1-DICHLORO-2,2-DIFLUOROETHANE WHOLE WATER (UG/L)	471432
77771	3-CHLORO-4-HYDROXYBENZOPHENONE, WHOLE WATER (UG/L)	55191203
78113	ETHYL BENZENE WHOLE WATER SAMPLE (UG/L)	100414
78124	BENZENE IN WATER (VOLATILE ANALYSIS) (UG/L)	71432
78131	TOLUENE IN WHOLE WATER (VOLATILE ANALYSIS) (UG/L)	108883
78208	2,4-DINITRO-O-CRESOL IN WHOLE WATER SAMPLE (UG/L)	534521
78247	CHROMIUM, HEXAVALENT, TOTAL RECOVERABLE, WT (UG/L)	18540299
78248	CYANIDE, TOTAL RECOVERABLE, WATER, WHOLE (UG/L)	57125
80357	CHROMIUM, TRIVALENT, DISSOLVED, AS CR	16065831
81208	CYANIDE, FREE (NOT AMEN. TO CHLORINATION) (MG/L)	57125
81210	CYANIDE - STATE OF ILLINOIS (MG/L)	57125
81214	CADMIUM - STATE OF ILLINOIS (MG/L)-COLD	7440439
81215	CHROMIUM - STATE OF ILLINOIS (MG/L), COLD DIGEST	18540299
81216	CHROMIUM(TRI)-STATE OF ILLINOIS (MG/L)-COLD DIGEST	16065831
81217	CHROMIUM, TOTAL - STATE OF ILLINOIS (MG/L) COLD DIGEST	7440473
81218	COPPER, STATE OF ILLINOIS, MG/L, COLD DIGEST	7440508

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
81220	LEAD, STATE OF ILLINOIS, MG/L, COLD DIGEST	7439921
81222	NICKEL - STATE OF ILLINOIS, MG/L, COLD DIGEST	7440020
81223	SILVER, STATE OF ILLINOIS, MG/L, COLD DIGEST	7440224
81224	ZINC - STATE OF ILLINOIS, MG/L, COLD DIGEST	7440666
81642	SILVER (AG) IN WATER POUNDS PER DAY (LBS/DAY)	7440224
81750	COPPER, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7440508
81751	LEAD, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7439921
81752	NICKEL, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7440020
81753	CADMIUM, INTERSTITIAL WATER FROM SEDIMENT	7440439
81754	ZINC, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7440666
81766	HEPTACHLOR EPOXIDE IN EPILITHIC ALGAE SED. (UG/KG)	1024573
81931	MERCURY (HG) SUSPENDED FRACTION OF WATER (UG/G)	7439976
81932	CADMIUM (CD) SUSPENDED FRACTION OF WATER (UG/G)	7440439
81933	ZINC (ZN) SUSPENDED FRACTION OF WATER (UG/G)	7440666
81934	LEAD (PB) SUSPENDED FRACTION OF WATER (UG/G)	7439921
81936	LEAD (PB) DISSOLVED CATIONIC SPECIES (UG/L)	7439921
81937	CADMIUM (CD) DISSOLVED CATIONIC SPECIES (UG/L)	7440439
81938	CHROMIUM, DISSOLVED CATIONIC SPECIES (UG/L)	7440473
81939	COPPER (CU) DISSOLVED CATIONIC SPECIES (UG/L)	7440508
81940	ZINC (ZN) DISSOLVED CATIONIC SPECIES (UG/L)	7440666
81941	CHROMIUM, DISSOLVED ANIONIC SPECIES (UG/L)	7440473
81942	COPPER (CU) DISSOLVED ANIONIC SPECIES (UG/L)	7440508
81943	ZINC (ZN) DISSOLVED ANIONIC SPECIES (UG/L)	7440666
82058	CHROMIUM, TOTAL, PERCENT REMOVAL	7440473
82399	CHROMIUM, HEXAVALENT (KG/BATCH)	18540299
82512	M,P-DICHLOROBENZENE (MEASURES 1,3&1,4) TOT. (UG/L)	541731
82573	CYANIDE/CHLORINATION IN WATER (MG/L)	57125
82621	HEXACHLOROBENZENE, WATER, TOTAL RECOVER. (UG/L)	118741

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
82622	ENDRIN ALDEHYDE, WH. WATER, TOTAL RECOVER. (UG/L)	7421934
82623	ENDOSULFAN SULFATE, WATER, TOTAL RECOVER. (UG/L)	1031078
82624	ENDOSULFAN, BETA, WH. WATER, TOTAL RECOVER. (UG/L)	33213659
82626	1,2-DIPHENYLHYDRAZINE, WATER, TOTAL RECOVER. (UG/L)	122667
82627	PARACHLOROMETA CRESOL, WATER, TOTAL RECOVER. (UG/L)	59507
82702	ARSENIC, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440382
82704	BERYLLIUM, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440417
82705	CADMIUM, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440439
82706	CHROMIUM, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440473
82708	COPPER, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440508
82711	LEAD, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7439921
82713	MERCURY, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7439976
82715	NICKEL, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440020
82716	SILVER, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440224
82719	ZINC, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440666
85006	ZINC, TOTAL - (#/DAY)	7440666
85007	CHROMIUM, TOTAL (#/DAY)	7440473
85010	NICKEL, TOTAL - (#/DAY)	7440020
85013	MERCURY, TOTAL - (#/DAY)	7439976

Appendix H

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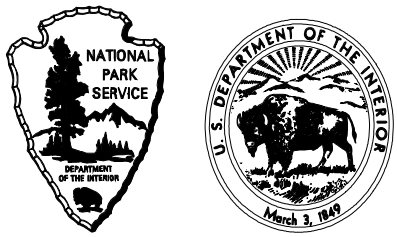
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As the nation's principal conservation agency, the Department of the Interior has the responsibility for most of our nationally owned public lands and natural and cultural resources. This includes fostering wise use of our land and water resources,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

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